KCSE 2023 PREDICTION

ALL SUBJECTS

SERIES 1

Series 1 of Possible Questions and Testable Areas likely to be examined in the forthcoming Final Exams.This provides a framework and means of illumination to guide our candidates in preparation for the KCSE Examinations scheduled for November 2023

SUBJECTS PREDICTED;

Mathematics, English, Kiswahili, Biology, Chemistry, Physics, CRE, Geography, Business Studies, Kenya Sign Language, Agriculture, IRE, History and Government, French, German, Computer Studies & Home-science

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CONFIDENTIAL

For Marking Schemes

Mr Isaboke 0746-222-000 / 0742-999-000

SUCCESS TO ALL CANDIDATES

KCSE 2023 PREDICTION

POSSIBLE SERIES 1 EXAM

BIOLOGY

231/1

PAPER 1 (THEORY)

TIME: 2 HOURS

NAME……

SCHOOL…… **SIGN**……

INDEX NO…… **ADM NO**……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

a) *Write your name and admission number in the spaces provided above.*

b) *Sign in the spaces provided above.*

c) *Answer **ALL** questions in the spaces provided.*

d) *All workings **MUST** be clearly shown where necessary.*

FOR EXAMINERS USE ONLY

QUESTION	MAXIMUM SCORE	CANDIDATES SCORE
1 – 30	80	

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*Answer **ALL** questions in the spaces provided*

1. Name the organelle that performs each of the following functions in a cell

(i) Protein synthesis. **(1mark)**

……

(ii) Transport of cell secretions. **(1mark)**

……

2. (a) Define the term 'parthenocarpy'. **(1mark)**

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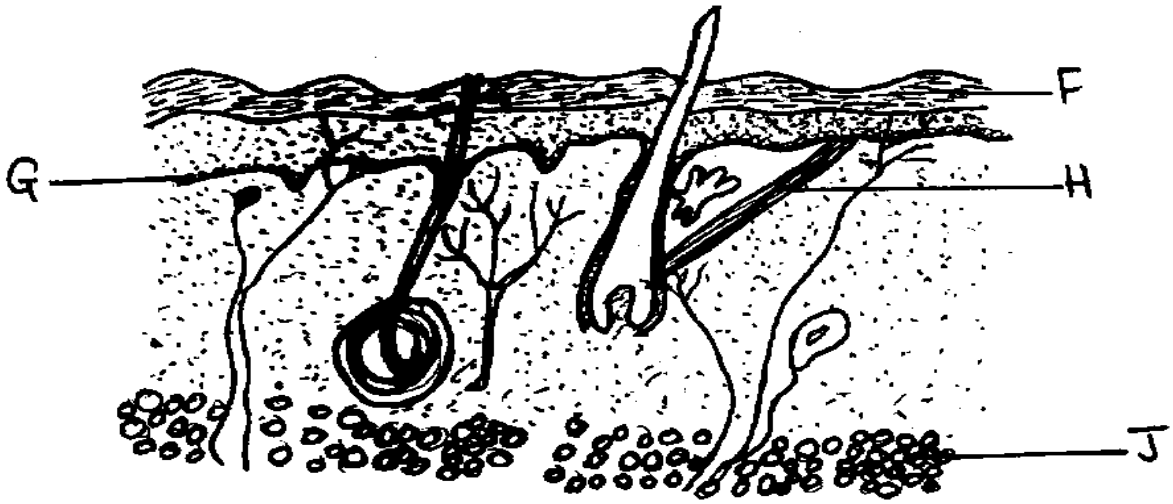
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(b) Name **two** plant growth hormones that promote parthenocarpy. **(2marks)**

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……

3. The diagram below shows a longitudinal section of mammalian skin.



a) Name the parts labelled **F** and **G.** **(2marks)**

F…….....

G……

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b) State **one** function of each of the parts labelled **H** and **J** **(2marks)**

H……

J ……

4. (a) State **two** characteristics used to divide the phylum Arthropoda into classes **(2marks)**

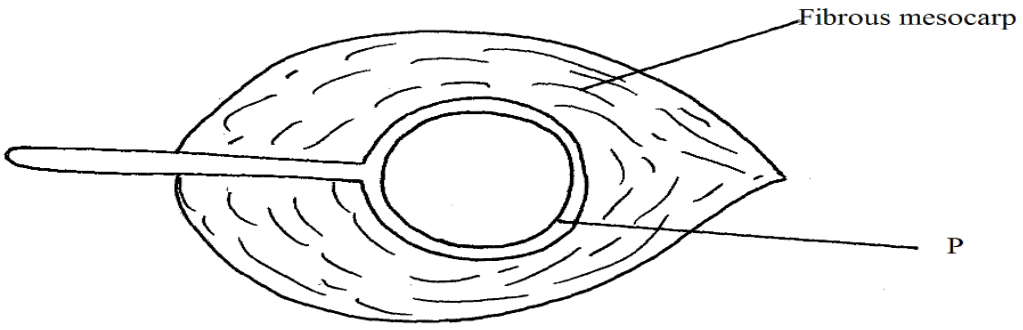
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(**b)**Name the class with the largest number of individuals in the phylum Arthropoda. **(1mark)**

……

5. The diagram below represents a longitudinal section of a fruit



(i) Identify the mode of dispersal **(1mark)**

……

(ii) Describe **two** adaptations of the fruit to its mode of dispersal **(2marks)**

……

……

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6. (a) What causes the following diseases?

(i) Diabetes mellitus. **(1mark)**

……

(ii) Diabetes insipidus. **(1mark)**

……

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b) An individual shows the symptoms for diabetes mellitus, how would you determine in the school laboratory whether they are positive for the condition? **(2marks)**

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7. (a) Give **two** examples of natural selection in action. **(2marks)**

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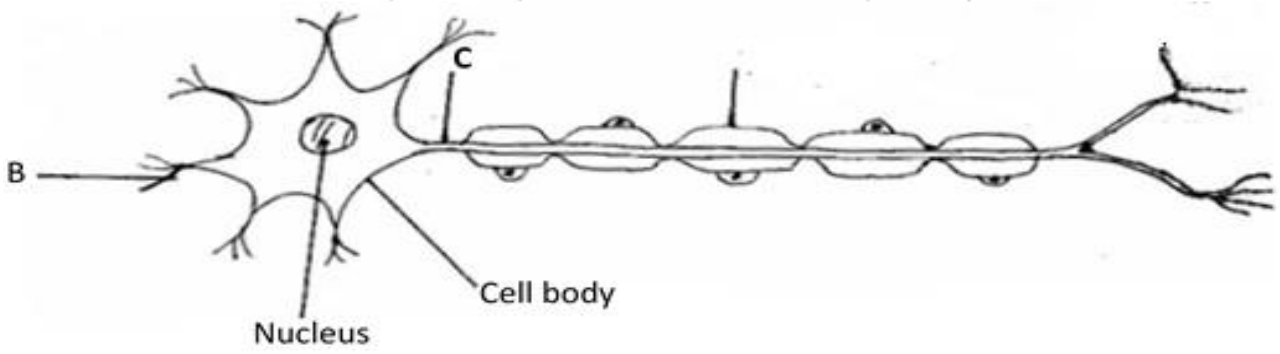
(b) List **two** features that make man the most dominant species on earth. **(2marks)**

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8. Study the diagram **below** of a neurone in human being.



(a)Identify the neurone. **(1mark)**

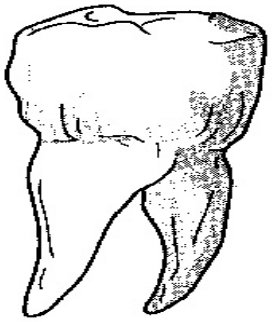
……

(b) Name the part labeled **B** **(1mark)**

……

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9. Study the diagram of the mammalian tooth **below** and answer the questions that follow.



(a) Identify the tooth. **(1mark)**

……

(b) Give a reason for your answer in (a) above. **(1mark)**

……

……

(c) State **one** adaptation of the tooth to its function. **(1mark)**

……

……

10. It was found that during germination of pea seeds 9.3cm^3 of carbon (iv) oxide was produced while 9.1cm^3 of oxygen was used up.

a) Calculate the respiratory quotient (RQ) of the reaction taking place. **(2marks)**

……

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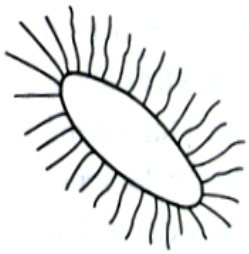
b) Explain why it is difficult to measure respiratory quotient in plants during the day. **(1mark)**

……

……

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11. The diagrams below represent two types of bacteria species that causes some human diseases.



A



B

Identify each bacterium and state the disease it causes. **(4 marks)**

A:

……

Disease it causes:

……

B:

……

Disease it causes:

……

12. a) What is metamorphosis? **(1mark)**

……

……

b) What is the biological significance of metamorphosis to an insect? **(2marks)**

……

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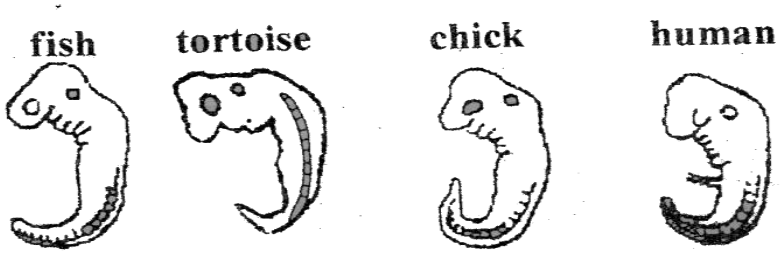
13. Study and complete the table below. **(3mks)**

Feature	Monocot	Dicot
a) Number of stamens		
b) Arrangement of vascular bundle in stem		
c) Type of root		

KCSE 23

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14. The diagrams below show embryos of certain vertebrates animals. Study them and answer the question that follows.



a) Mention two observable structural features in these embryos that suggest that they have a common ancestral origin. **(2marks)**

……

……

……

(b) What phenomenon in organic evolution is exhibited by these diagrams of embryos? **(1mark)**

……

15. What is meant by the terms? **(2marks)**

a) Hypogynous flower

……

……

b) Dichogamy

……

……

16. What is the main difference between the phloem tissues of sub divisions Gymnospermaphyta and Angiospermaphyta. **(1mark)**

……

……

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17. State **two** ways in which the skin of a frog is adapted for gaseous exchange. **(2marks)**

……

……

……

18. What would be the effect of the following treatments on the nerve transmission?

(i) Inducing the axon with metabolic inhibitors. **(1mark)**

……

……

(ii) Removing myelin sheath from a nerve fiber. **(1mark)**

……

19. Give one reason why blood leaving the lungs may not be fully oxygenated **(1mark)**

……

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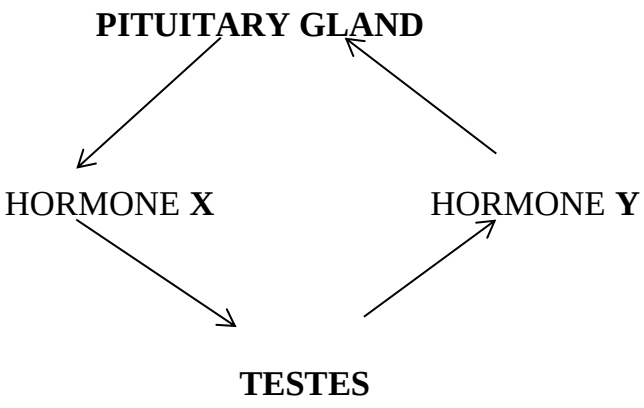
20. What is the importance of retina in vision? **(2marks)**

……

……

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21. The diagram below represents a simple endocrine feedback mechanism in human male.



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(a) Name the hormone labelled **X** **(1mark)**

……

(b) State **two** differences that may be observed between a normal male and one who is incapable of producing hormone labelled **Y**. **(2marks)**

……

……

……

22. a) Name the cartilage found between the bones of the vertebral column. **(1mark)**

……

b) State the function of the cartilage named in (a) above. **(1mark)**

……

23. The cells shown below were obtained from two different plant cells which were immersed in 2% and 25% salt solutions



A B

(a) Which of the two cells **A** and **B** was immersed in 2% salt solution? **(1mark)**

……

(b) Comment on the nature of 25% salt solution in relation to the cell sap. **(1mark)**

……

……

(c) What biological phenomenon leads to the observation made in **A**. **(1mark)**

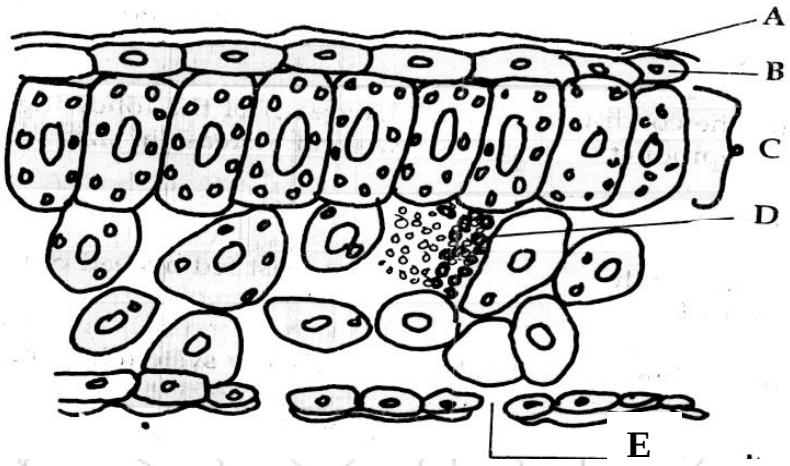
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24. Name **one** structure found in the cortex of the kidney **(1mark)**

……

25. The diagram below shows the internal structure of a leaf



(a) Name the part labelled **B** **(1mark)**

……

(b) State the function of the part labelled **C**. **(1mark)**

……

……

(c) State **two** difference between xerophytic and hydrophytic leaves. **(2marks)**

Xerophytic	Hydrophytic

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26. a) Distinguish between gaseous exchange and respiration. **(1mark)**

……

……

……

b) Explain the disadvantages of anaerobic respiration in plant roots. **(2marks)**

……

……

……

27. a) Suggest the significance of the following adaptations in bony fish.

(i) Flexible vertebral column **(1mark)**

……

……

(ii) Presence of swim bladder **(1mark)**

……

……

b) State **two** features which reduce resistance in fish during swimming. **(2marks)**

……

……

……

28. State **two** protective feature of human eye. **(2marks)**

……

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29. State **two** differences between photosynthesis and respiration **(2marks)**

PHOTOSYNTHESIS	RESPIRATION

30. Explain why malaria cannot be transmitted through blood transfusion **(2marks)**

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KCSE 2023 PREDICTION

POSSIBLE SERIES 1 EXAM

BIOLOGY

231/2

PAPER 2 (THEORY)

TIME: 2 HOURS

NAME……

SCHOOL…… **SIGN**……

INDEX NO…… **ADM NO**……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

a) *Write all your details in the spaces provided above.*

b) *This paper consists of **two** sections; **A** and **B**. Answer all the questions in section **A** in the spaces provided.*

c) *In section B answer question **6 (compulsory)** and either question 7 or 8 in the spaces provided after question 8.*

For Examiner's Use Only

Section	Question	Maximum Score	Candidate's Score
A	1	8	
	2	8	
	3	8	
	4	8	
	5	8	
B	6	20	
	7	20	
	8	20	
	Total Score	**80**	

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SECTION A (40 marks)

*Answer **all** the questions in this section in the spaces provided*

1. (a) Name two disorders in humans caused by gene mutation. **(2 marks)**

……

……

(b) Describe the following chromosomal mutations. **(2 marks)**

(i) Inversion

……

……

(ii) Translocation

……

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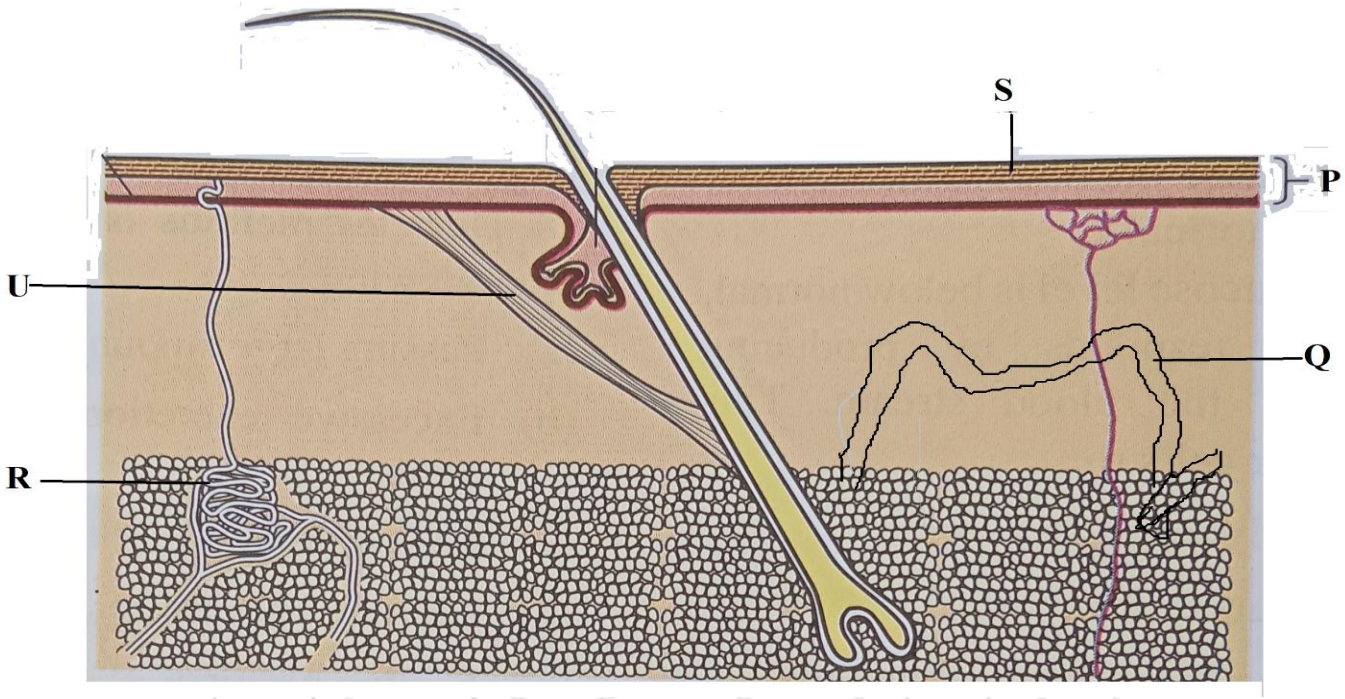
(c) In mice the allele for black fur is dominant to the allele for brown fur. What percentage of offspring would have brown fur from a cross between heterozygous black mice and brown mice?

(Show your working)

Use letter B to represent the allele for black colour. **(4 marks)**

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2. The diagram below represents a vertical section through a mammalian skin.



(a). Name the structures labelled **P,Q,R and U** **(4 marks)**

P ……

Q ……

R ……

U ……

(b) What is the function of S and **T** **(2marks)**

S

……

T

……

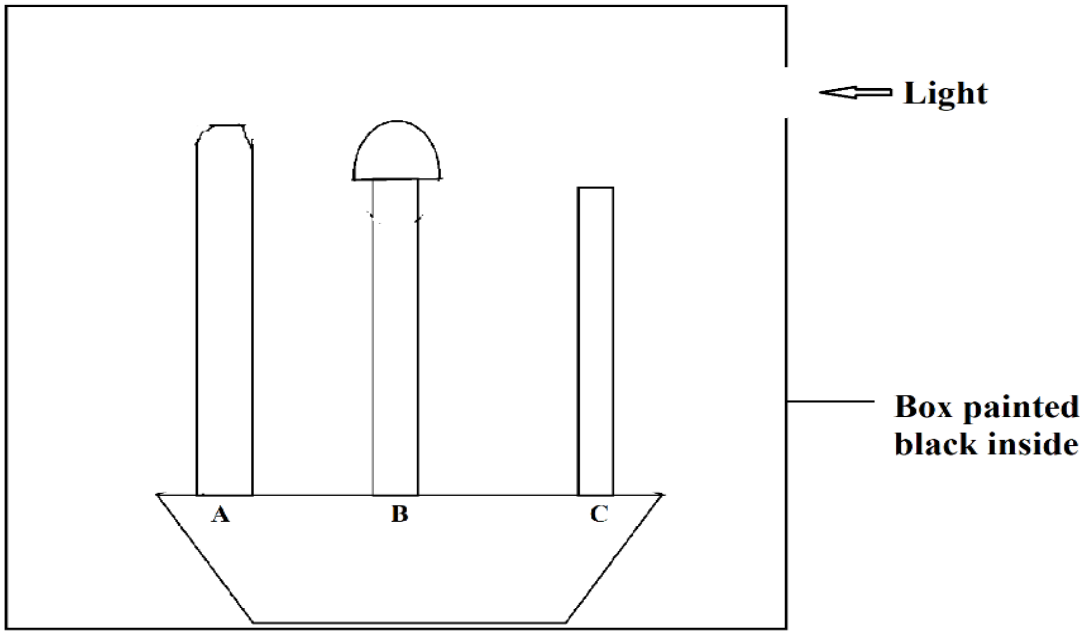
(c) State the physiological changes that would occur in the following structures if the environmental temperature was raised gradually from 22℃ to 40℃ **(2 mrks)**

R ……

Q……

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3. An experiment was set up with seedlings as shown in the diagram below.



(a) What observation would be made? **(2 marks)**

……

……

(b) Account for the observation made in (a) above **(5 marks)**

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(c) Why were the seedlings labeled B and C included in the experiment **(1 mark)**

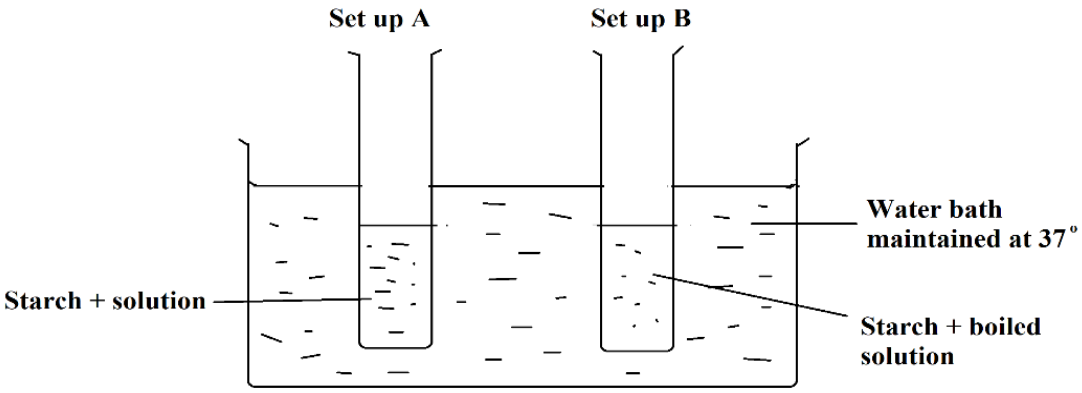
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4. In an experiment to investigate an aspect of digestion, two test tubes A and B were set up as shown in the figure below. The test tubes were left in the bath for 30minutes. The content of each test tube was then tested for starch using iodine solution.



(a) What was the aim of the experiment? **(1 mark)**

……

(b) What were the observations expected in test tube A and B? **(2 marks)**

A

……

……

B

……

……

(c) Account for the observation made in (b) above **(2 marks)**

……

……

……

(d) Why was the set up left at 37℃ **(1mark)**

……

……

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(e) How is the mouth adapted to digestion **(2marks)**

……

……

……

5. Ojwang' Hatari is confronted by a hyena while walking in the forest. His adrenal glands secreted adrenaline to prepare him to run away.

(a) What was the effect of adrenaline in his circulatory system? **(4marks)**

……

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(b) Explain why the skin temperature rises shortly after drinking iced Coca-Cola. **(4marks)**

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SECTION B (40marks)

*Answer question **6(compulsory)** and either **7** or **8** in the spaces provided after question 8.*

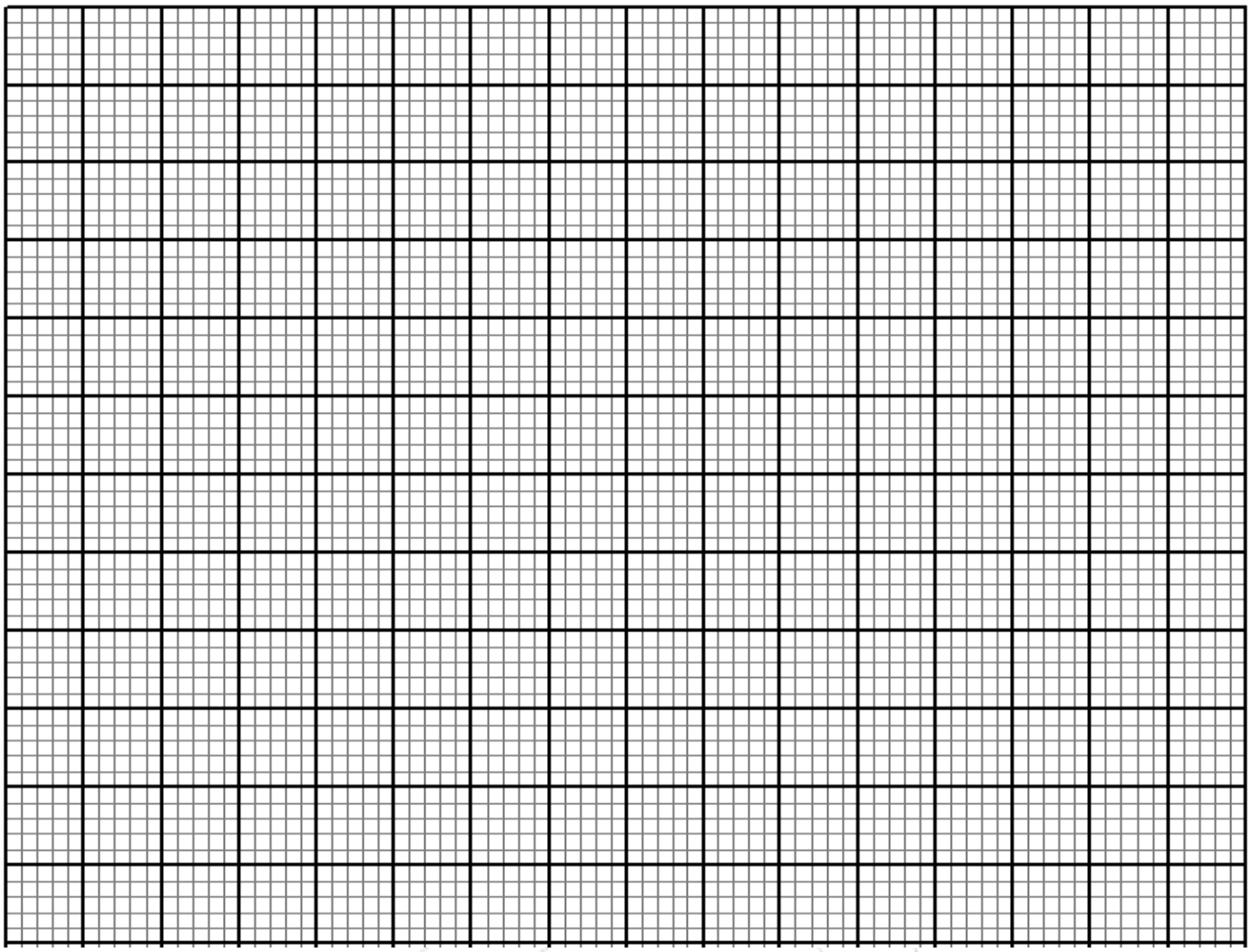
6. A culture of bacteria was incubated in nutrients agar at 35℃. Samples were taken at intervals in order to estimate the number of bacteria in the population.

The data obtained is as shown below.

Time(hours)	0	5	10	15	20	25	30	35	40	45
No. of living cells(millions)	20	30	950	1000	1000	1000	800	500	250	50

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Draw a graph of number of living cells(millions) against time(hours**)** **(6 marks)**



(a) When was the population of bacteria 750 million**?** **(1 mark)**

……

(b) Account for the shape of the graph between:

(i) 0-5 hours **(2 marks)**

……

……

……

(ii) 5-10 hours **(2 marks)**

……

……

……

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(iii) 15-25 hours **(2 marks)**

……

……

……

(c) Give 3 reasons for the shape of the curve between 25 hours -45 hours**.** **(3 marks)**

……

……

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……

(d) (i) Suggest what would happen to the population of the bacteria if the temperature was lowered to 0℃ after incubation for 12 hours. **(1 mark)**

……

(ii) Give a reason for your answer in (e)(i) above **(1 mark)**

……

(e) Define the following**;** **(2mks)**

(i) Biological control

……

……

(ii) Carrying capacity

……

……

7. Describe the structure and functions of the various parts of the human ear. **(20 marks)**

8. Explain the various ways in which seeds and fruits are adapted to dispersal. **(20 marks)**

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KCSE 2023 PREDICTION

POSSIBLE SERIES 1 EXAM

BIOLOGY

231/3

PAPER 3 (PRACTICAL)

TIME: 1¾ HOURS

SCHOOL…… SIGN……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO SCHOOL (CONFIDENTIAL)

Each student shall be provided with the following

- ***a)*** *One medium sized irish potato – specimen R*
- ***b)*** *18cm^3 dilute hydrogen peroxide*
- ***c)*** *6cm^3 dilute sodium hydroxide*
- ***d)*** *6cm^3 iodine solution*
- ***e)*** *Scalpel*
- ***f)*** *3 labels*
- ***g)*** *3 clean test tubes on a test tube rack*
- ***h)*** *1 dropper*
- ***i)*** *10ml measuring cylinder*

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KCSE 2023 PREDICTION

POSSIBLE SERIES 1 EXAM

BIOLOGY

231/3

PAPER 3 (PRACTICAL)

TIME: 1¾ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

a) *Write your name and Admission number in the spaces provided above.*

b) *Sign and write the date of examination in the spaces provided above*

c) *Answer **ALL** the questions in the spaces provided below each question.*

*d) Answer **all** the questions in the spaces provided.*

e) *All working **MUST** be clearly shown where necessary.*

For Examiner's Use Only

Question	Maximum Score	Candidate's Score
1	14	
2	15	
3	11	
TOTAL	40	

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1.You are provided with a specimen **R** and the following reagents.

- Dilute HCL
- Dilute Hydrogen Peroxide
- Dilute Sodium Hydroxide
- Three test tubes

10ml of measuring cylinder
Scalpel
3 labels
Iodine solution

Using the above provisions, conduct the procedure below.

i.Label the test tubes A, B, and C.

ii. Using a scapel obtain three cubes of side 1 cm from specimen R and reserve the rest.

iii. Using a scalpel, chop the first and the second cubes into tiny pieces separately and place into the test tubes A and B respectively.

iv. Place the remaining cube into test tube C as a whole.

v.Add $2cm^3$ of the dilute HCL into the test tube A, then $2cm^3$ of dilute Sodium Hydroxide into each of the the test tubes B and C.

vi. Add about $5cm^3$ of Hydrogen Peroxide into each of the three test tubes A, B and C.

a) Observe the amount of effervescence produced in each test tubes and complete the table below. **(6 marks)**

Test Tube	Contents	Amount of effervescence observed
A		
B		

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C		

B) Explain the observation made in test tube **A** and **B**. **(3 marks)**

A: .....

.....

B: .....

.....

c) What would be the expected result if **K** was first boiled before conducting the above procedures.

Result **(2 marks)**

.....

Explanation:

.....

.....

d) Use the reagents provided to test for the food substance present in specimen K reserved from (a).

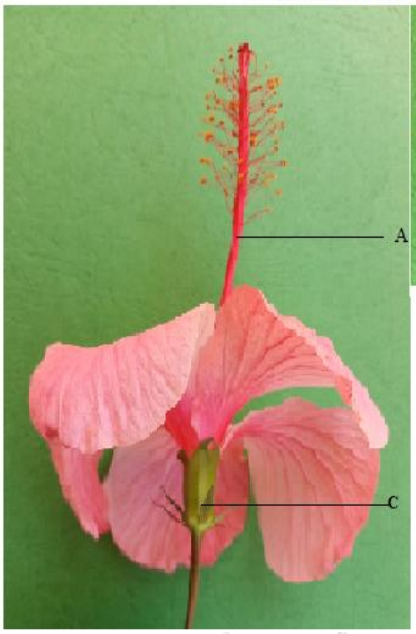
Observe and record in the table below. **(3 marks)**

Procedure	Observation	Conclusion

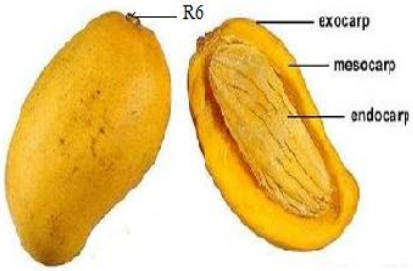
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2. The photographs below are of certain plant organs. Use them to answer the questions that follow.

PHOTOGRAPH Q



PHOTOGRAPH R



PHOTOGRAPH T



a) (i) Identify the structures **A** and **B** in Photograph Q**.** **(2 marks)**

A: …….

B: ……

ii) Give the role of structure **C** **(1 mark)**

……

iii) Using observable features only, state the agent of pollination for specimen **Q** giving a reason for your answer. **(2 marks)**

Agent: **……**

Reason: **……...**

……

b) Specimen in photograph **R** was cut longitudinally and displayed as shown, use it together with photograph **T** to answer the questions that follow

i) Give the functional difference between **R_6** and **T_5**. **(1 mark)**

……

……

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ii) State the type of placentation in the two specimens in photographs **R** and **T** giving a reason in each case. **(4 marks)**

R: ……

Reason: ……

……

T: ……

Reason: ……

……

iii) Giving **two** observable features, state the mode of dispersal of specimen **R**. **(3 marks)**

Mode: ……

Features: ……

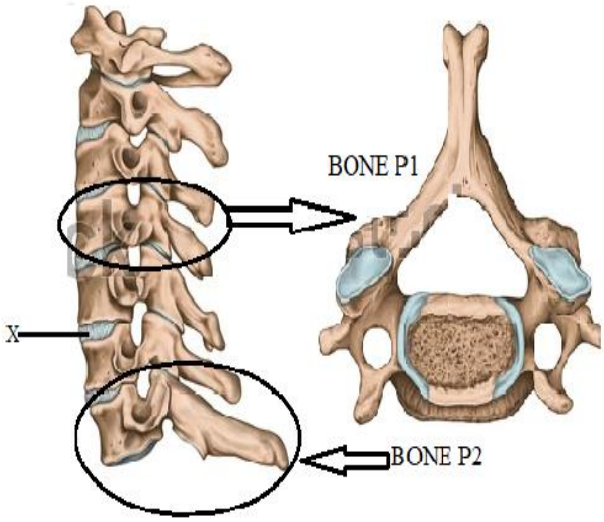
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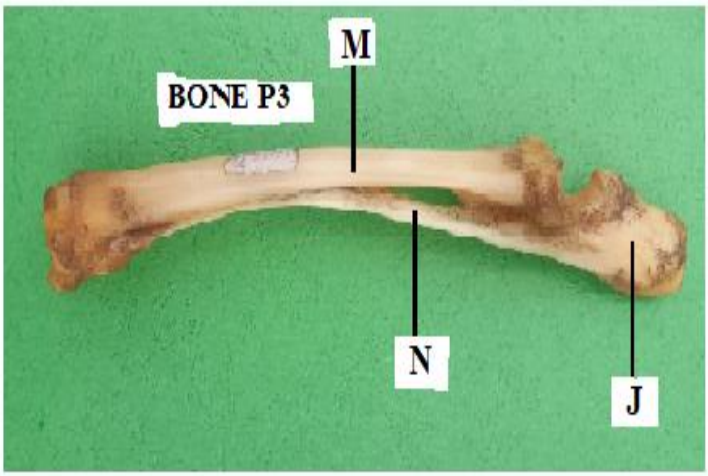
iv) Identify one cause for seed dormancy displayed in **R** and state **one** way of breaking it. **(2 mrks)**

……

……

3. The following are photographs of bones of the mammalian skeleton. Use them to answer the questions that follow.





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a) Giving the main distinguishing feature in each case, identify the bones **P1** and **P2.** **(4 marks)**

P1: ……..

Feature: ……

……

P2: ……..

Feature: ……

……

b) State **two** functions of the structure **X.** **(2 marks)**

……

……

c) Photograph **P3** is a composite set of two bones.

i) Give the identity of the parts labelled **M** and **N**. **(2 marks)**

M: ……

N: ……

ii) Name the borne that articulates with **P3** at its proximal end and state how the named is adapted to its function. **(2 marks)**

Bone: ……..

Adaptation:……

……

……

iii) Other than muscle attachment, give the other function of the part labelled **J**. **(1mark)**

……

iv) Give **one** nutritional value of the human endoskeleton. **(1 mark)**

……

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KCSE 2023 PREDICTION

POSSIBLE SERIES 1 EXAM

CHEMISTRY

233/1

PAPER 1 (THEORY)

TIME: 2 HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

(a) *Write your* ***name*** *and* ***index number*** *in the spaces provided above.*

(b) *Sign and write the date of the examination in the spaces provided above.*

(c) *Answer all the questions in the spaces provided in the question paper.*

(d) ***Non-programmable*** *silent electronic calculators and* ***KNEC*** *mathematical tables may be used.*

(e) *All working must be clearly shown where necessary.*

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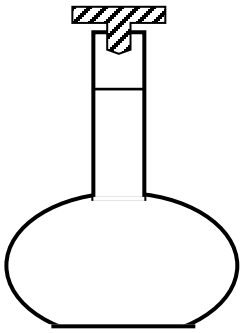
Question	Maximum score	Candidate's score
1-27	80	

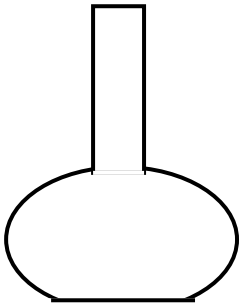
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Answer all the questions in the spaces provided

1. a) Name the laboratory apparatus below ; **(1 mark)**

A **B**





A…… **B** ……

b) Which laboratory apparatus is used to keep substances free from moisture? **(1 mark)**

……

2. Describe how to experimentally separate a mixture of Iron (III) chloride and sodium chloride in the laboratory. **(2 marks)**

……

……

……

3. An ion of element Q has 18 electrons,16 neutrons and 15 protons;

a) Write the electron arrangement of an atom of element Q**.** **(1 mark)**

……

b) What is the mass number of element Q. **(1 mark)**

……

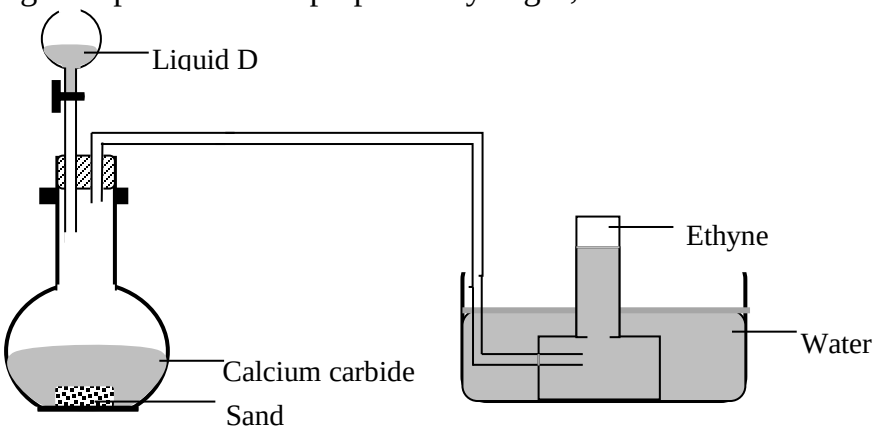
c) State the period and group of the periodic table where element Q is found**.** **(1 mark)**

Period……

Group……

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4. The following set-up was used to prepare ethyne gas;



a) Identify liquid D. **(1 mark)**

……

b) Write the equation for the reaction in the flask. **(1 mark)**

……

c) State and explain one precaution to be taken when performing the experiment**.** **(1 mark)**

……

……

5. A saturated solution of a salt X at 25^0C weighing 56g yielding 14g of solid when evaporated to dryness.

a) Give one precaution to be taken when performing the experiment**.** **(1 mark)**

……

……

b) What is the solubility of the salt at 25^0C **?** **(2 marks)**

……

……

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6. a)Use the equation below to answer the question that follow;

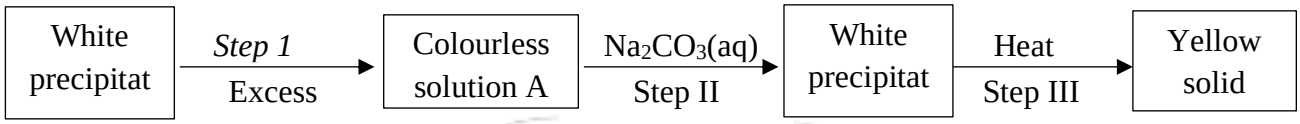
$$NH_3(g) + H_2O(l) \rightleftharpoons NH_4^+(aq) + OH^-(aq)$$

Identify the species that acts as a base and give a reason**.** **(1 mark)**

……

……

b) Study the flow chart below carefully.



i) Identify the cation in solution A**.** **(1 mark)**

……

ii) Write the ionic equation for the reaction in step II. **(1 mark)**

……

7. a) Some Agriculture students wanted to test the pH of the soil in the school farm. Describe how this can be done in the school's chemistry laboratory. **(2 marks)**

……

……

……

b) The pH of the soil from the school farm was found to be 4.5. What should be done to raise the pH of the soil to 8.0**?** **(1 mark)**

……

……

8. Given that:

$C(s) + O_2(g) \longrightarrow CO_2(g)$ $\Delta H = -393$ kJ mol^{-1}

(Graphite)

$C(s) + O_2 \longrightarrow CO_2(g)$ $\Delta H = -395$ kJ mol^{-1}

(Diamond)

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a) Determine ΔH for : C(s) (Graphite) ⟶ C(s) (Diamond) **(2 marks)**

b) Represent the information above in an energy level diagram. **(2 marks)**

9. a) State Charles' law **(1 mark)**

……

……

b) The volume of a certain gas was measured at 21^0C. At what temperature will the volume be doubled if pressure remains constant? **(2 marks)**

……

……

……

10.a) Name the chief ore of aluminium. **(1 mark)**

……

b) Give a reason why aluminium is extracted using electrolysis. **(1 mark)**

……

……

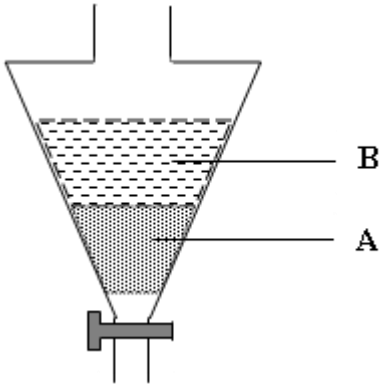
c) Give two uses of aluminium metal. **(1 mark)**

……

……

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11. The figure below shows an apparatus used to separate a mixture of water and hexane



a) Name the apparatus. **(1 mark)**

……

b) State the principle by which the mixture of the two liquids is separated. **(1 mark)**

……

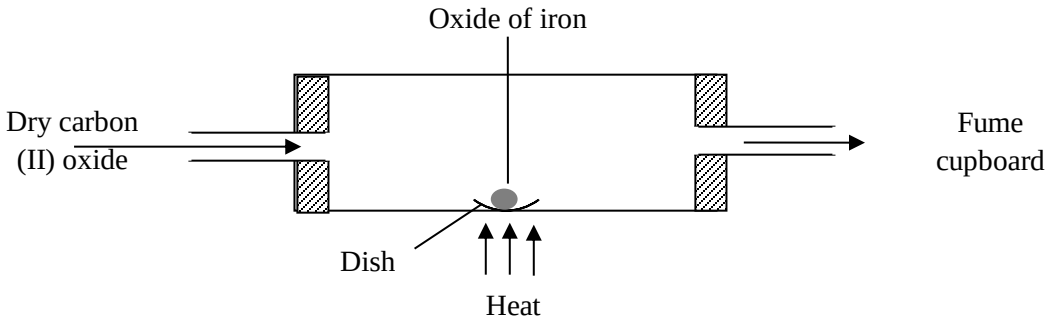
……

c) Identify the liquids, A and B if the density of hexane is 0.66g/cm^3. **(1 mark)**

A……

B……

12. Excess carbon (II) oxide was passed over a heated sample of an oxide of iron as shown in the diagram below. Study the diagram and use the data below to answer the questions that follow:



Mass of empty dish = 10.98g

Mass of empty dish and oxide of iron = 13.30g

Mass of empty dish and the residue = 12.66g

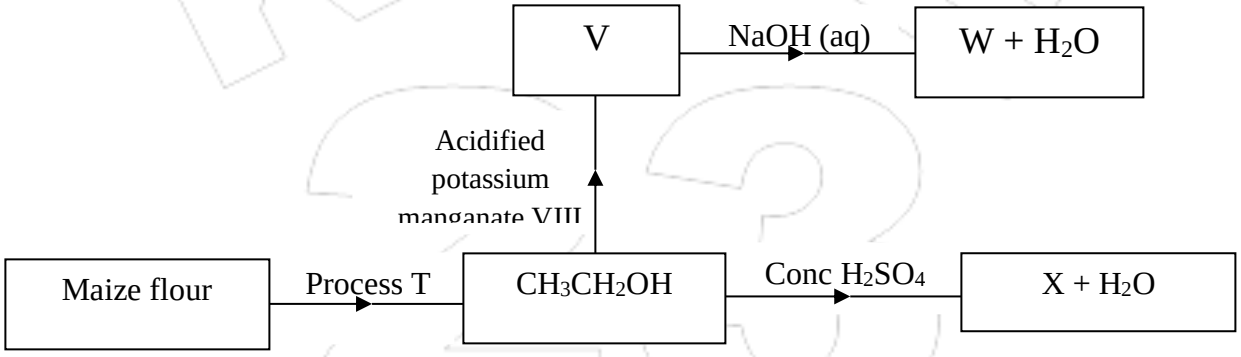
©2023 The Kenya National Examinations Council.

a) Determine the formula of the oxide of iron. (Fe = 56, O = 16) **(3 marks)**

b) Write an equation for the reaction which took place in the dish. **(1 mark)**

……

13. Study the flow chart below and use it to answer the questions that follow;



a) State two conditions required for process T**.** **(1 mark)**

……

……

b) Give the formula of **W** **(1 mark)**

……

c) State one use of X**.** **(1 mark)**

……

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14. When a certain mass of calcium carbonate was reacted with 200cm^3 of 1M HCl, 1440cm^3 of carbon (IV) oxide was produced. Determine the mass of calcium carbonate.

(Ca = 40, C = 12, O = 16, Molar gas volume is 24000 cm^3) **(3 marks)**

15. If you are provided with powdered zinc, distilled water, dilute nitric (V) acid and sodium carbonate crystals; describe how a sample of pure zinc carbonate crystals can be prepared in the laboratory. **(3 marks)**

……

……

……

……

16. The reaction between nitrogen and hydrogen to manufacture ammonia is a reversible reaction;

$N_{2(g)} + 3H_{2(g)} \rightleftharpoons 2NH_{3(g)} \quad \Delta H = -92$ kJ/mol

How would the following changes affect the position of equilibrium?

a) Increase in temperature. **(1 mark)**

……

……

b) Increasing concentration of nitrogen gas. **(1 mark)**

……

……

c) Introduction of finely divided Iron catalyst**.** **(1 mark)**

……

……

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17. A student investigated the effect of electric current on substances by passing current through copper sulphate solution using copper electrodes.

a) State two observations made during the experiment. **(2 marks)**

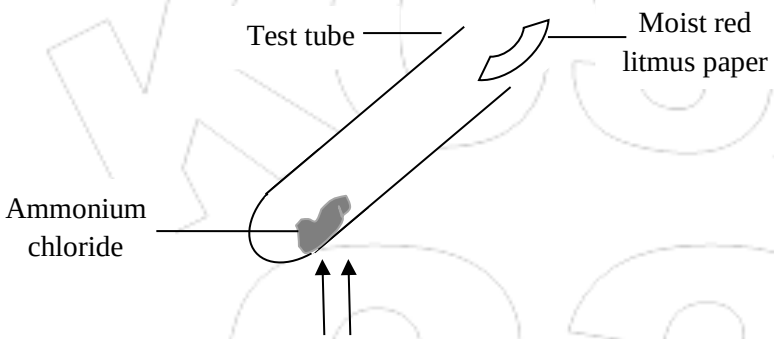
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……

b) Write the equation for the reaction at the anode . **(1 mark)**

……

18. The diagram below shows the heating of ammonium chloride in a test tube until there is no further change;



State and explain the observations made on the litmus paper. **(2 marks)**

……

……

……

19. A mixture of iron filings and Sulphur was placed in a crucible and heated strongly.

a) Explain the following observations which were made;

i) The mixture continued to glow red even when heating was stopped**.** **(1 mark)**

……

……

ii) The black solid produced was not attracted by a magnet. **(1 mark)**

……

……

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b) Write the equation for the reaction which took place. **(1 mark)**

……

20. A sample of water is suspected to contain chloride ions. Describe an experiment that can be carried out to determine the presence of chloride ions. **(2 marks)**

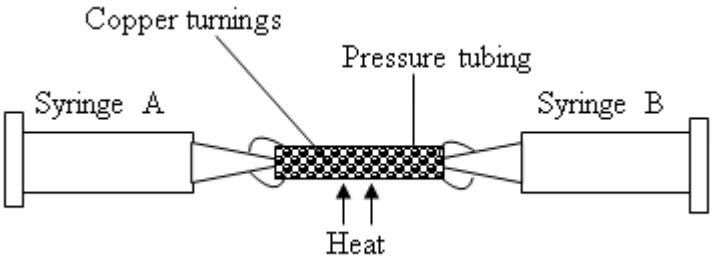
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21. Draw a well labeled diagram to show how to prepare and collect hydrogen sulphide gas using Iron (II) sulphide solid. **(3 marks)**

22. The following set-up was used by Form one students to determine the percentage of oxygen in air. About 200cm^3 of air was passed repeatedly from syringe A to syringe B and back. After sometime, the volume of air was found to be 160 cm^3.



a) Calculate the percentage of oxygen in the initial sample of air**.** **(1 mark)**

……

……

……

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b) Write the equation for the reaction that took place**.** **(1 mark)**

……

c) Why would Magnesium metal not be used in the experiment to replace the Copper metal**?(1 mrk)**

……

……

23.a) Define allotropy. **(1 mark)**

……

……

b) Name the two allotropes of Sulphur. **(1 mark)**

……

……

c) Calculate the oxidation number of Sulphur in H_2SO_3. **(1 mark)**

……

……

……

24. A pea-size of potassium metal is dropped in a trough containing ethanol;

a) State two observations made. **(1 mark)**

……

……

b) What is observed when blue litmus paper is dropped in the resultant solution **(1 mark)**

……

……

c) Write the equation for the reaction which takes place **(1 mark)**

……

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25. Calculate the volume of gas collected at the anode when a current of 3 amperes is passed through dilute sulphuric (VI) acid solution for 45 minutes and 30 seconds.

(Molar gas volume at r.t.p = 24.0 dm^3, 1F = 96500 coulombs) **(3 marks)**

……

……

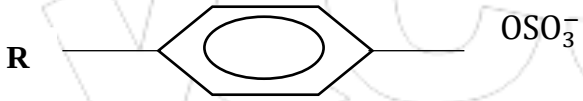
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26. a) Identify the organic compounds below and state their uses; **(3 marks)**

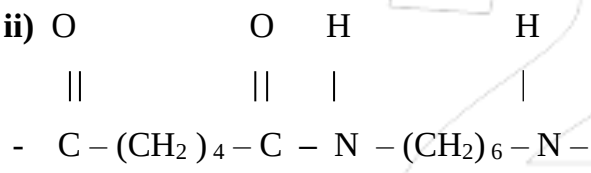
i)



Name ……

Use ……

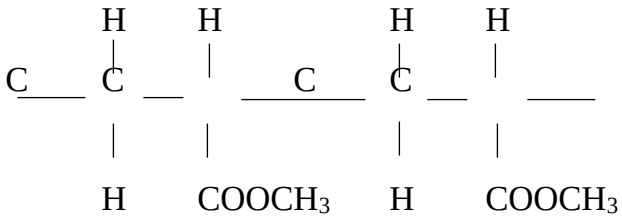
ii)



Name ……

Use ……

iii)



Name ……

Use ……

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27.a) Define half-life. **(1 mark)**

……

……

b) It takes 20 days for a certain radioisotope to disintegrate from 400g to 25g. Determine the half-life of the radioisotope. **(2 marks)**

……

……

……

……

c) State one application of radioactivity in agriculture. **(1 mark)**

……

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KCSE 23

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KCSE 2023 PREDICTION

POSSIBLE SERIES 1 EXAM

CHEMISTRY

233/2

PAPER 2 (THEORY)

TIME: 2 HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES.

a) *Write your **name** and **index number** in the spaces provided.*
b) ***Sign** and write the **date** of examination in the spaces provided.*
c) *Answer **ALL** the questions in the spaces provided.*
d) *ALL working **must be** clearly shown where necessary.*
e) *Mathematical tables and silent electronic calculators **may be** used.*

For Examiner's Use Only

Question	Maximum Score	Candidate's Score
1	14	
2	12	
3	11	
4	14	
5	09	
6	10	
7	10	
Total Score	80	

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*Answer **ALL** the questions in the spaces provided.*

1. a) Name the process that takes place when:

i) Ethanol reacts with concentrated sulphuric (VI) acid at 180^{o}C to form ethene. **(1 mark)**

……

ii) Ammonium chloride is heated and forms a white powder on the cooler parts of the boiling tube.

(1 mark)

……

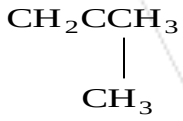
iii) Propanol reacts with propanoic acid is the presence of a catalyst to form propyl propanoate.

(1 mark)

……

b) Give the systematic names of the following compounds : **(2 marks)**

i)



……

ii) $CH_3CH_2CH_2C \equiv CH$

……

c) State the observation made when propan-l-ol reacts with:

i) Acidified potassium dichromate (VI) solutions **(1 mark)**

……

……

ii) Sodium metal **(1 mark)**

……

……

d) Ethanol obtained from glucose can be converted to ethane as shown below;

$$C_6H_{12}O_6 \xrightarrow{\textbf{Step I}} C_2H_5OH \xrightarrow{\textbf{Step II}} CH_2 = CH_2$$

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Name and describe the process that takes place in steps I and II **(3 marks)**

Step I

……

……

Step II

……

……

e) Compounds A and B have the same molecular formula $C_3H_6O_2$. Compound A liberates carbon (IV) oxide on addition of aqueous sodium carbonate while compound B does not. Compound B has a sweet smell. Draw the possible structures of:

i) Compounds A **(1 mark)**

ii) Compound B **(1 mark)**

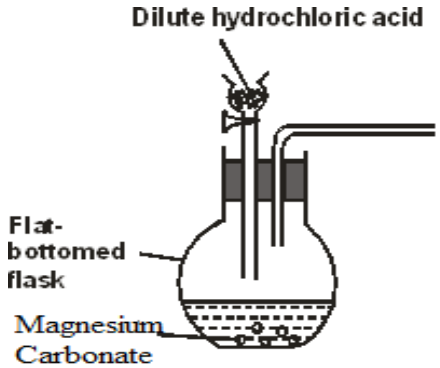
f) Give **two** reasons why the disposal of polymers such as polychloroethene by burning pollutes the environment. **(2 marks)**

……

……

……

2. a) The following diagram represents an incomplete set-up of apparatus used to prepare and collect a dry sample of carbon (IV) oxide gas.



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i)

ii) Complete the diagram to show how a dry sample of pure carbon (IV) oxide gas is collected.

(2 marks)

iii) Write an equation for the reaction that takes place in the flat-bottomed flask. **(1 mark)**

……

iv) Why is it not suitable to use lead (II) carbonate in place of magnesium carbonate in this experiment? **(1 mark)**

……

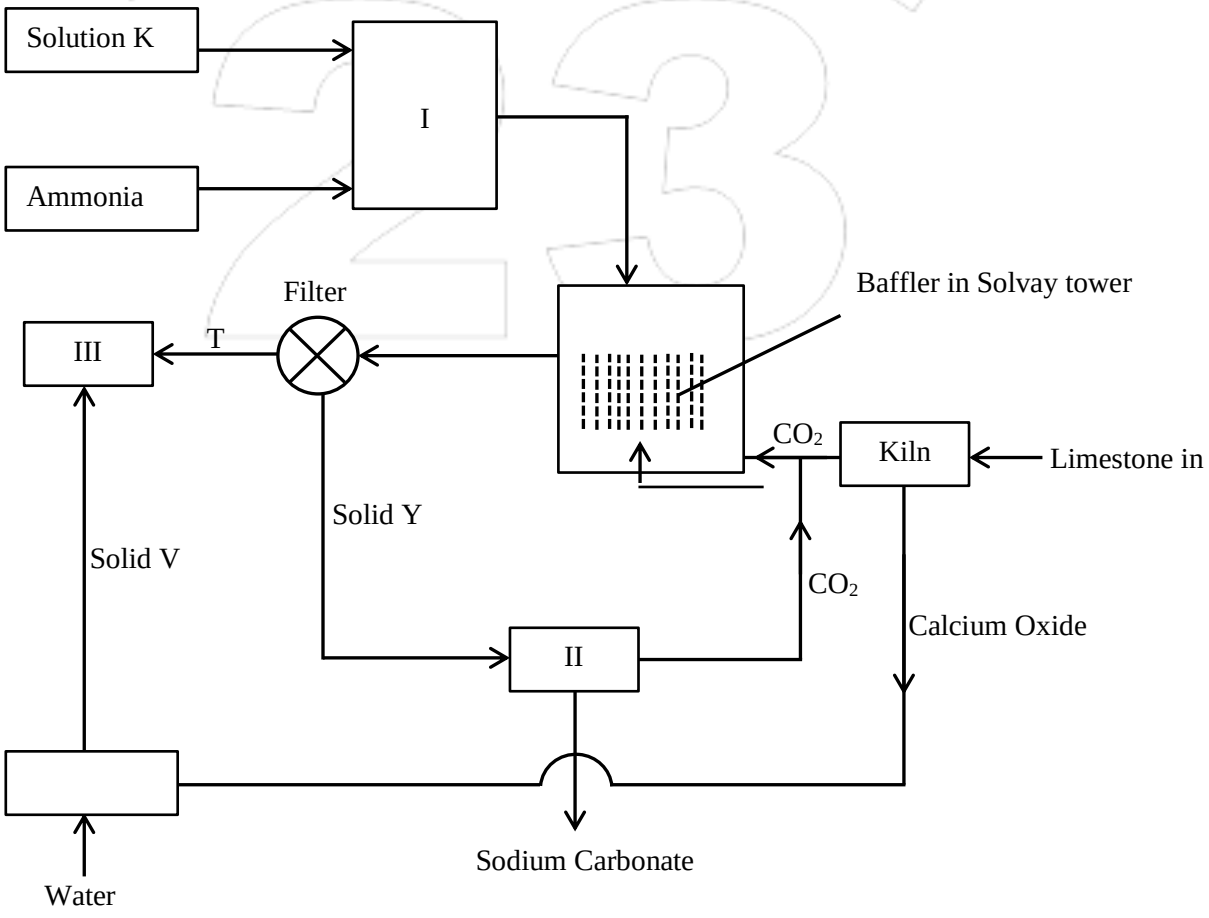
……

v) State **two** properties of carbon (IV) oxide that makes it suitable for use in fire extinguishers.**(2mk**

……

……

b) Study the flowchart below then answer the questions that follow.



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i) Identify substances **K, T, V and Y.** **(2 marks)**

K……

T……...

V……..

Y……..

ii) Write an equation for the reaction that takes place in the Solvay tower. **(1 mark)**

……

c) **A** burning magnesium ribbon will continue to burn in a gas jar of carbon IV oxide while a burning wooden splint will be extinguished. Explain. **(3 marks)**

……

……

……

……

3. 140g of powdered brass (an alloy of Zinc and copper) were added to excess 0.5M hydrochloric acid in a conical flask placed on top of a pan balance. The changes in mass of the flask and its contents with time were recorded in the following table. This experiment was carried out at room temperature.

Time (in seconds)	0	10	20	30	40	50
Mass (mg) of flask and its contents.	255.0	253.0	251.9	251.2	251.0	251.0

a) Write an equation for the reaction that took place. **(1 mark)**

……

b) State and explain the relationship between the mass of the flask and its content with time**.(2 mks)**

……

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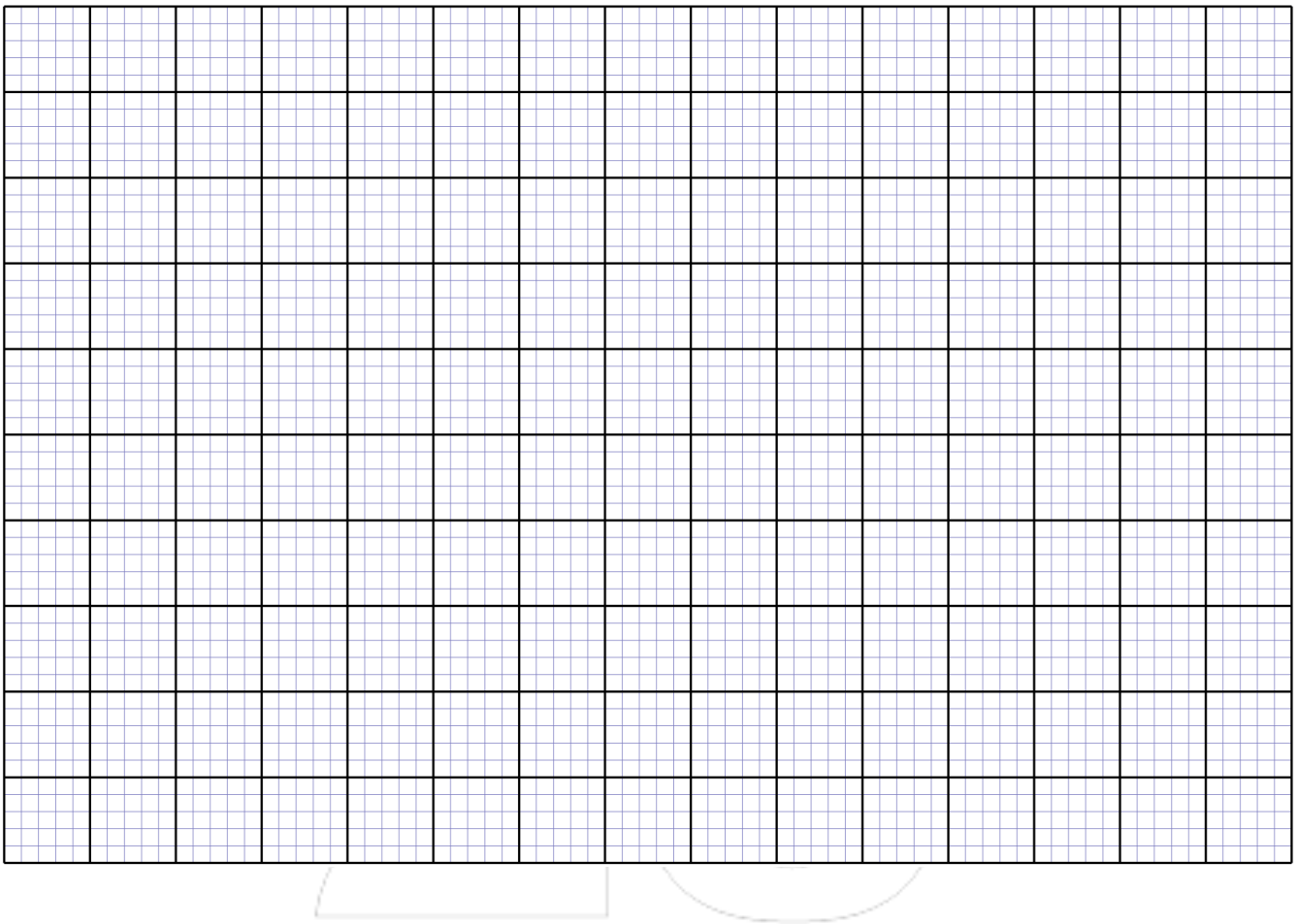
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c) i) What observation was made in the flask at the end of the reaction? **(1 mark)**

……

……

d) i) Plot a graph of mass of the flask and its content against time. **(3 marks)**



ii) Using the graph, determine rate of the reaction at the 20^{th} second. **(2 marks)**

……

……

……

iii) How would the rate in 4 (d) (ii) above be affected if the reaction was carried out using 0.5M hydrochloric acid at 45^{o}C? Explain. **(2 marks)**

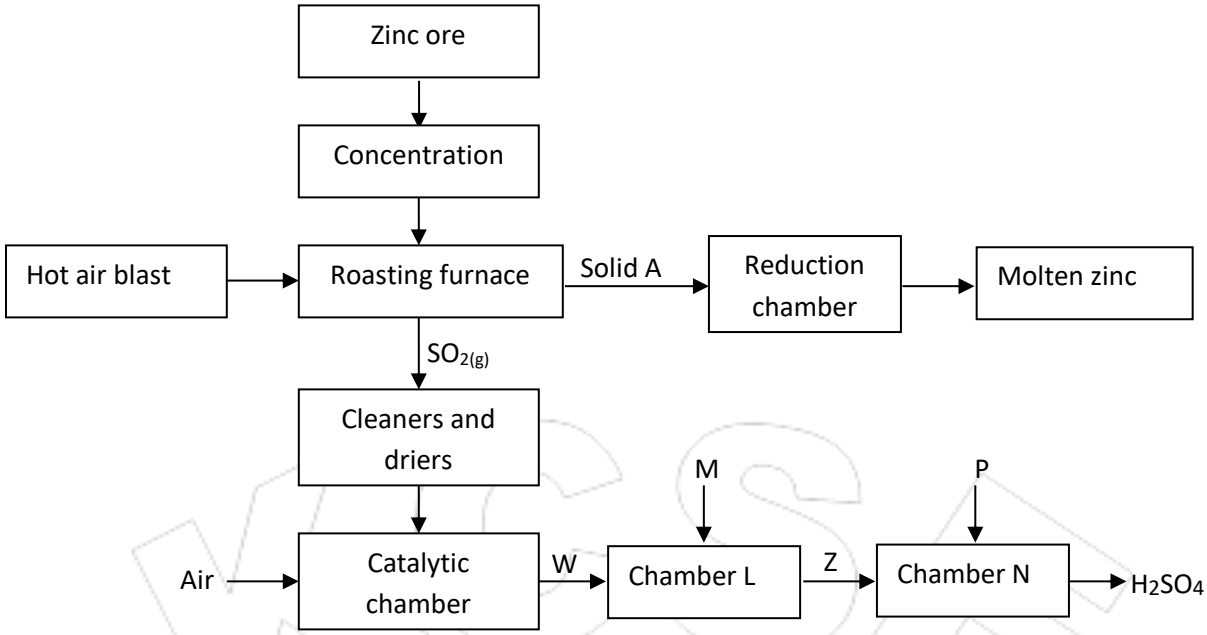
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4. The chart below represents the extraction of zinc from its ore and a by-product used in the manufacture of sulphuric (VI) acid. Study it and use it to answer the questions that follow:-



a) Name;

(i) The zinc ore used. **(1 mark)**

……

(ii) The main impurity in the ore. **(1 mark)**

……

b) (i) Name the process by which zinc ore is concentrated. **(2 marks)**

……

(ii) State **one** use of Zinc metal **(1 mark)**

……

c) Write an equation for the reaction taking place in the roasting furnace. **(1 mark)**

……

d) Describe what happens in the reduction chamber. **(2 marks)**

……

……

……

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e) Identify substances:- **(2 marks)**

W……...

M ……..

f) Write the equation for the reaction that occurs in chamber **N**. **(1 mark)**

……

g) Explain why sulphur (VI) oxide is not dissolved directly in water. **(2 marks)**

……

……

……

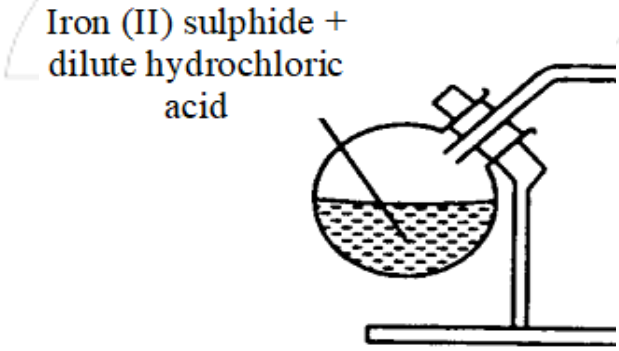
h) Explain the danger caused by this process to the environment. **(2 marks)**

……

……

……

5. Study the set up below which was used by form four students to prepare a gas in the laboratory.



a) Complete the diagram to show how the gas above can be collected. **(2 marks)**

b) Write the equation for the reaction in the flask. **(1 mark)**

……

……

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c) State a chemical test for the gas prepared. **(1 mark)**

……

……

d) When hydrogen sulphide gas was bubbled into an aqueous solution of iron (II) chloride a yellow precipitate was deposited.

(i) State the other observation that was made. **(1 mark)**

……

……

(ii) Write the reaction equation for d (i) above. **(1 mark)**

……

……

e) When sugar crystals were reacted with concentrated sulphuric (IV) acid, a black substance T was formed which when dried burnt in excess air to form a colourless gas U only. While when concentrated sulphuric (VI) acid is reacted with liquid D at temperature of 170^{o}C, a colourless gas W is formed, this changes yellow bromine water to colourless and also changes colour of substance Y from purple to colourless.

i) Identify;

Substance **T**…… **(½ mark)**

Gas U……. **(½ mark)**

Liquid D …… **(½ mark)**

Gas W …… **(½ mark)**

Substance Y…….. **(½ mark)**

ii) Which property of concentrated sulphuric (VI) acid is being demonstrated by formation of a black mass**?** **(½ mark)**

……..

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6. The grid below is part of the periodic table. Use it to answer the questions that follow.

(The letters do not represent the actual symbols of the elements)

				D		E	G	
			H	J			K	
							L	

a) Which is the most reactive non-metallic element shown in the table? **(1mark)**

……

……

b) i) Write the formula of the compound formed when element **D** and **E** react. **(1 mark)**

……

ii) Name the bond type in the compound formed in b (i) above. **(1 mark)**

……

c) i) What is the name given to the group of elements where **G, K** and **L** belong? **(1 mark)**

……

ii) Write the equation for the reaction that occurs when **G** in gaseous form is passed through a solution containing ions of element **L**. **(1 mark)**

……

d) The melting point of elements **J** and **K** are 1410^{o}C and -101^{o}C respectively. In terms of structure and bonding, explain why there is a large difference in the melting points of J and K. **(2 marks)**

……

……

……

e) **D** forms two oxides. Write the formula of each of the two oxides. **(2 marks)**

……

……

f) M is an element that belongs to the 3rd period of the periodic table and is a member of the alkaline earth metals. Show the position of M in the grid. **(1 mark)**

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7. a) The standard reduction potentials for five half cells are shown in the table below.

Study it and answer the questions that follow. The letters do not represent the actual symbols of the elements.

			E^{θ}(V)
$A_{2(aq)} + 2e^-$	$\rightarrow$	$2A^-_{(aq)}$	$+1.09$
$Q^{2+}_{(aq)} + 2e^-$	$\rightarrow$	$Q_{(S)}$	-0.13
$R^{2+}_{(aq)} + 2e^-$	$\rightarrow$	$R_{(S)}$	-2.37
$Y^{2+}_{(aq)} + 2e^-$	$\rightarrow$	$Y_{(S)}$	$+0.34$

(i) With a reason identify the strongest reducing agent. **(1 mark)**

……

……

(ii) Write an equation for the cell formed when Q and Y half cells are joined. **(1 mark)**

……

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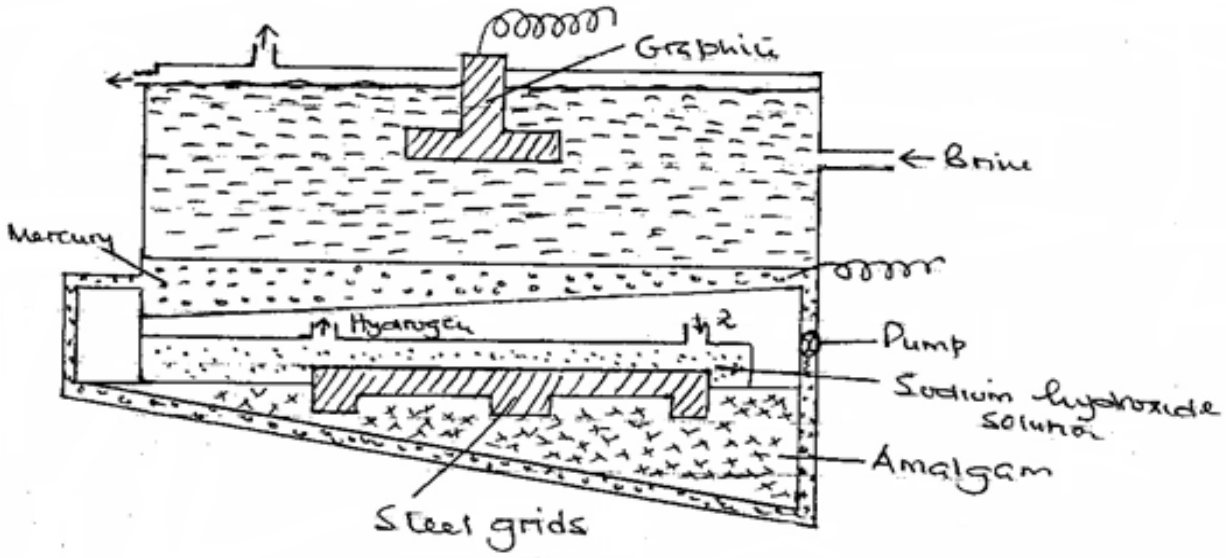
(iii) Calculate the e.m.f of the cell in (iii) above. **(1 mark)**

……

……

……

b) The diagram below represents a mercury cell that can be used in the industrial manufacture of sodium hydroxide. Study it and answer the questions that follow.



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(i) Name raw material introduced at **2**. **(½ mark)**

……...……..

(ii) Name another material that can be used in the cell instead of graphite. **(½ mark)**

……

(iii) Write an equation for the reaction.

I) that occurs at the anode. **(1 mark)**

……

II) in which sodium hydroxide is produced. **(1 mark)**

……

(iv) Give **one** reasons why mercury is recycled. **(1 mark)**

……

(v) A current of 100 amperes was passed through the cell for five (5) hours. Calculate the mass of sodium hydroxide that was produced. **(3 marks)**

(Na = 23.0, O = 16.0, H = 1.0, 1 Faraday = 96500C).

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KCSE 2023 PREDICTION

POSSIBLE SERIES 1 EXAM

CHEMISTRY

233/3

PAPER 3 (PRACTICAL)

TIME: 2¼ HOURS

SCHOOL…… SIGN……

Kenya Certificate of Secondary Education.

Each candidate requires:

1. About 100 ml of solution L- 0.2 M NaOH
2. Distilled water in a wash bottle
3. Burette
4. Pipette and pipette filler
5. 2 conical flasks
6. 10 ml measuring cylinder
7. 250 ml volumetric flask
8. Exactly 3.6g of solid P- oxalic acid
9. Means of labelling- 1 piece
10. Test-tube holder
11. Thermometer(-10 to 110^{o}C)
12. Boiling tube
13. 5 Test tubes
14. Glass rod
15. Aluminium Foil
16. Red and Blue litmus papers
17. Ethanol labelled Liquid Q
18. Universal indicator and universal chart paper
19. Watch glass
20. Wooden splint
21. Solid Barium Nitrate labelled solid E

ACCESS TO:

Source of heat.

Phenolphthalein indicator.

NaOH.

Dilute H_2SO_4.

$Pb(NO_3)_2$ Solution.

Acidified $K_2Cr_2O_7$.

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KCSE 2023 PREDICTION

POSSIBLE SERIES 1 EXAM

CHEMISTRY

233/3

PAPER 3 (PRACTICAL)

TIME: 2¼ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

Instructions to Candidates:

1. Write your name and index number in the spaces provided.
2. Sign and write the date of examination in the spaces provided above.
*3. Answer **ALL** questions in the spaces provided.*
4. You are required to spend the first 15 minutes of the 2 ¼ hours allowed for this Paper reading the whole paper carefully before commencing your work.
5. Additional pages must not be inserted.

FOR THE EXAMINER'S USE ONLY

Question	*Maximum score*	*Candidate's Score*
1	*21*	
2	*13*	
3	*06*	
TOTAL SCORE	***40***	

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1. You are provided with;

- 3.6 g of solid P in a boiling tube. Solid P is a hydrated dibasic acid with the formula $H_2C_2O_4.nH_2O$
- Solution L which is a 0.2 M sodium hydroxide solution. You are required to determine;

(i) Solubility of solid P

(ii) The value of n in the formula $H_2C_2O_4.nH_2O$

Procedure I

I. Using a burette, add 4cm^3 of distilled water to solid P in the boiling tube. Heat the mixture while stirring with the thermometer to about 70 ºC. When all of solid has dissolved, allowthe solution to cool while stirring with the thermometer. Note the temperature at which crystals of solid P first appear. Record the temperature in **table 1** below.

II. Using the burette, add 2 cm^3 of distilled water to the contents of the boiling tube. Warm the mixture while stirring with the thermometer until all the solid dissolves again. Allow the mixture to cool while stirring. Note the temperature at which crystals of solid P appears.

III. Repeat procedure (II) three more times and record the temperatures in **table 1**. **RETAIN the contents of the boiling tube for use in PROCEDURE II**

TABLE 1

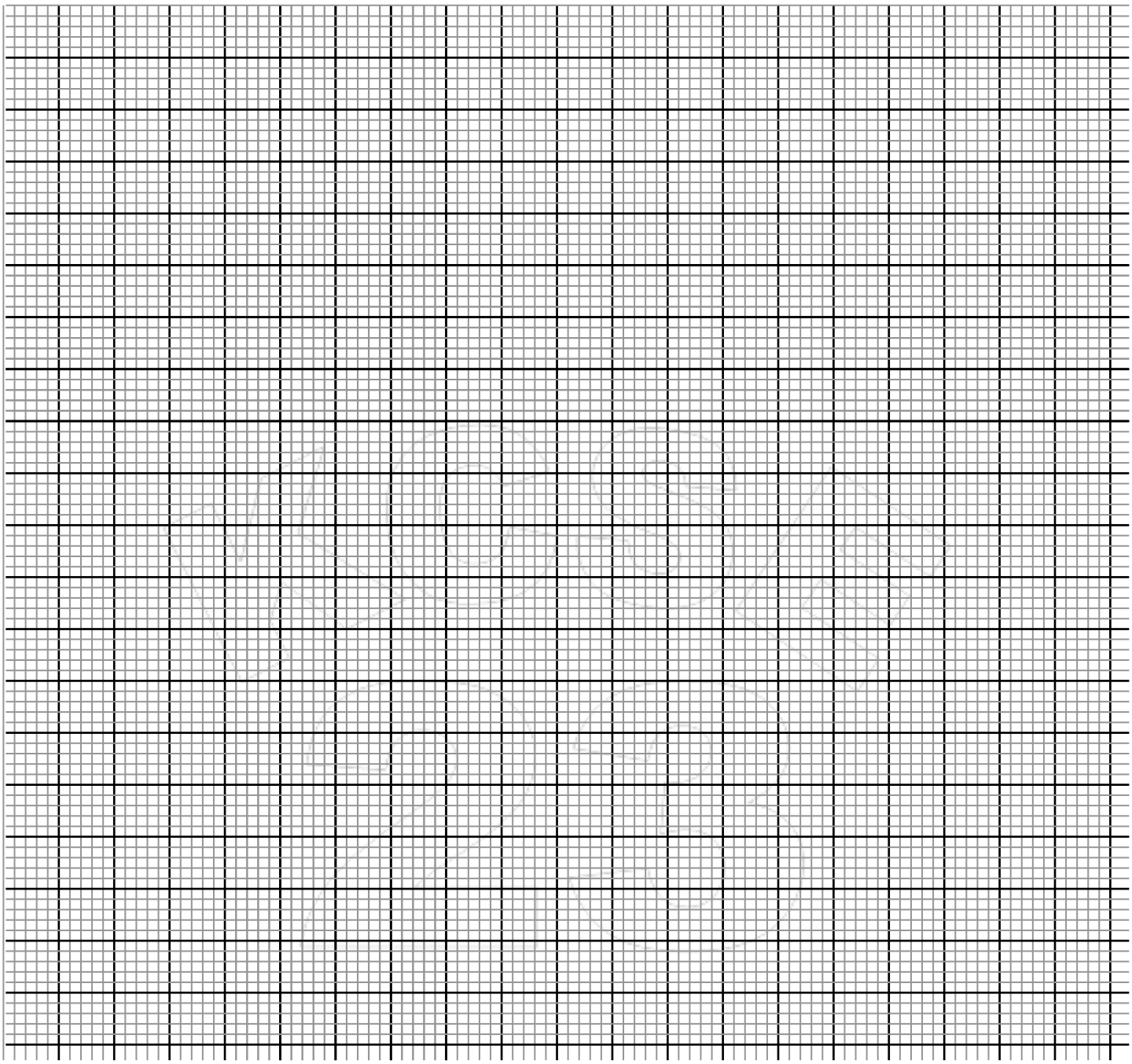
Volume of water in the boiling tube (cm^3)	**Crystallization temperature (ºC)**	**Solubility of solid P in g/100 g of water**
4		
6		
8		
10		
12		

(4marks)

(a) Complete **table 1** above by working out the solubility. **(1 mark)**

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On the graph provided, plot a graph of solubility of solid P against crystallization temperature.**(3mk**



(b) From the graph, determine;

(i) The solubility of solid P at 50 ˚C **(1 mark)**

……

(ii) The temperature at which 65 g of solid P would dissolve in 100 g of water **(1 mark)**

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Procedure II

(i) Transfer the contents of the boiling tube from **PROCEDURE I** into a clean 250 mlvolumetric flask.

(ii) Add distilled water up to the mark

(iii) Label the resulting solution as solution P

(iv) Fill the burette with solution P

(v) Pipette 25cm^3 of solution L into a conical flask. Add three drops ofphenolphthalein indicator

(vi) Titrate solution P against solution L to an accurate end point. Record your results in **table 2** below.

TABLE 2	1	2	3
Final burette reading			
Initial burette reading			
Volume of solution P used (cm^3)			

(4 marks)

a) Calculate Average volume of solution P used. **(1mark)**

b) **(i)** Moles of solution L used. **(1 mark)**

(ii) Moles of solution P used. **(1 mark)**

(iii) Moles of solution P in 250 cm^3 of solution P **(1 mark)**

(iv) The relative formula mass of P. **(1 mark)**

(c) Determine the value of n in the formula; $H_2C_2O_4.nH2O$ (H = 1, C = 12, O = 16) **(2marks)**

2. You are provided with solid E. Carry out the experiments below. Write your observations and inferences in the spaces provided.

Place all solid E into a boiling tube. Add about $20cm^3$ of distilled water and shake. Retain the contents of the boiling tube.

Observations	***Inferences***

Use $2cm^3$ of solution E, in a test tube in each experiment i, ii,iii,iv and v

i. To experiment i, Add two drops of aqueous Sulphuric vi acid

Observations	***Inferences***

(1 mark) **(1 mark)**

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ii. To experiment ii, add NaOH solution drop wise till in excess.

Observations	*Inferences*
1 mark)	**1 mark)**

iii. To experiment iii, dip a stirring rod into the solution, place the rod in a non-luminous flame..

Observations	*Inferences*
(1 mark)	**(1 mark)**

iv. To experiment iv, add two drops of lead (ii) nitrate solution.

Observations	*Inferences*
(1 mark)	**(1 mark)**

v. To experiment v, add a piece of aluminium foil followed by sodium hydroxide solution and warm . Test the gas given out with litmus papers.

Observations	*Inferences*
(2 mark)	**(1 mark)**

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3). You are provided with liquid Q. carry out the tests below. Write your observations and inferences in the spaces provided.

i). To 2 cm^3 of liquid Q in a test tube, add universal indicato

Observations	***Inferences***

(1 mark) **(1 mark)**

ii). Place 3 drops of liquid Q on a watch glass and ignite.

Observations	***Inferences***

(1 mark) **(1 mark)**

iii). To 2 cm^3 of liquid Q in a test tube , add two or three drops of acidified potassium dichromate VI and warm

Observations	***Inferences***

(1 mark) **(1 mark)**

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KCSE 2023 PREDICTION

POSSIBLE SERIES 1 EXAM

PHYSICS

232/1

PAPER 1 (THEORY)

TIME: 2 HOURS

NAME……

SCHOOL…… **SIGN**……

INDEX NO…… **ADM NO**……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

a) *Write your* ***name, admission number, school, stream and signature*** *in the spaces provided above. This paper consists of* ***TWO*** *sections.*

b) *Answer* ***ALL*** *the questions in sections* ***A*** *and* ***B*** *in the spaces provided.*

c) ***ALL*** *working* ***MUST*** *be clearly shown.*

d) *Non-programmable silent electronic calculators and KNEC mathematical tables may beused.*

For Examiner's Use Only

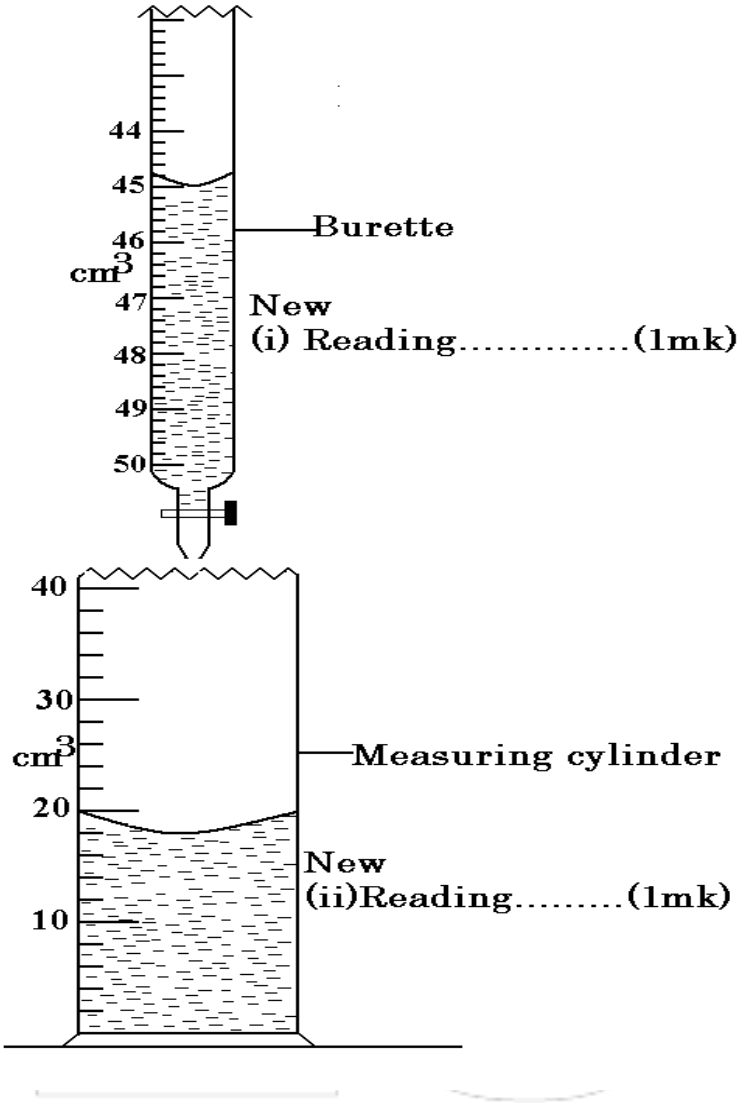
Section	Question	Maximum Score	andidate's Score
A	1 – 11	25	
B	12	10	
	13	12	
	14	12	
	15	10	
	16	11	
	Total Score	80	

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SECTION A (25 MARKS)

Answer questions in the spaces provided

1. The figure 1 shows a measuring cylinder containing some water.



Another 3cm^{3}of water was added in to the cylinder from a burette delivering volumes from 0cm^3 to 50 cm ^{3}. Record in the spaces provided the **new reading** indicated on each vessel. **(2 marks)**

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2. Sketch a Vernier calipers scale reading 3.41 cm. **(2 marks)**

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3. The system in figure 2 is in equilibrium

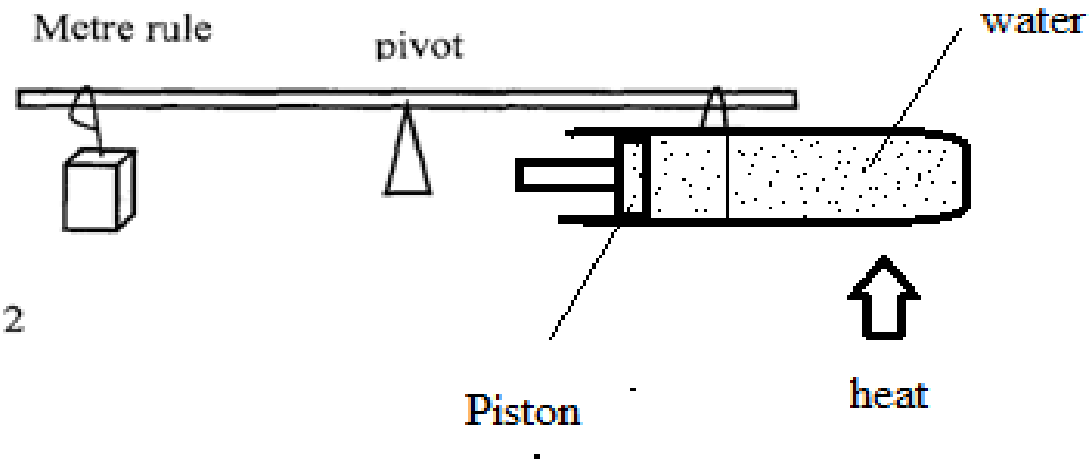


Figure 2

When the temperature of the water is raised the system is observed to tilt to the left, explain this observation **(2 marks)**

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4. The reading on a mercury barometer at a certain town is 760mm. Calculate the pressure at the town.(density of mercury is $1.36 \times 10^{4} Kgm^{-3}$) **(3 marks)**

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5. Explain the cause of random motion of smoke particles as observed in Brownian motion experiment using a smoke cell. **(1 mark)**

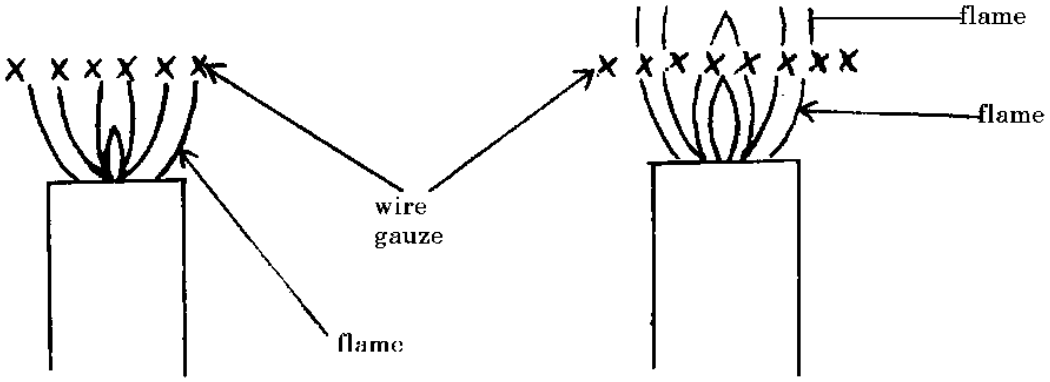
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6. When a Bunsen burner is lit below a wire gauze, it is noted that the flame initially burns below the gauze as shown in the figure below. After sometime the flame burns below as well as above the gauze.



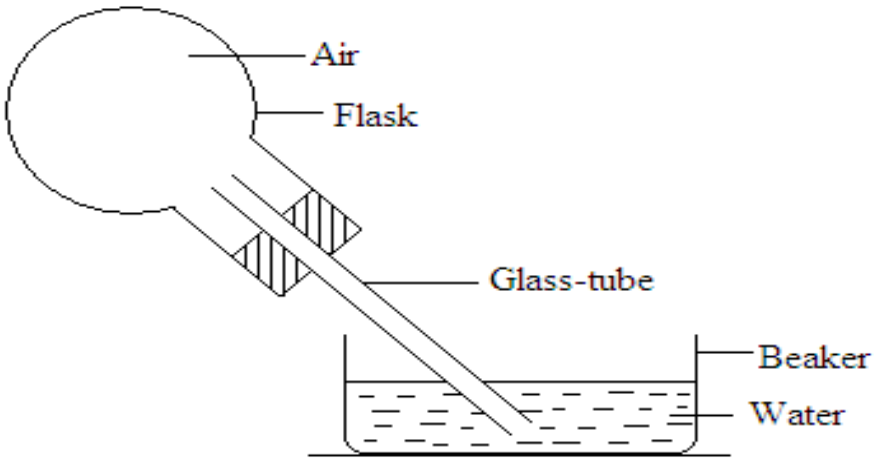
Explain this observation **(2 marks)**

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7. The diagram below shows a flask fitted with a glass tube dipped into a beaker containing water at room temperature. The cork fixing the glass tube is tight.



State with reason what would be observed if cold water is poured on to the flask. **(2marks)**

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8. A resultant force F acts on a body of mass 'm' causing an acceleration of a_1 on the body. When the same force acts on a body of mass 2m, it causes an acceleration of a_2.Expressa_2 in terms of a_1.

(3 marks)

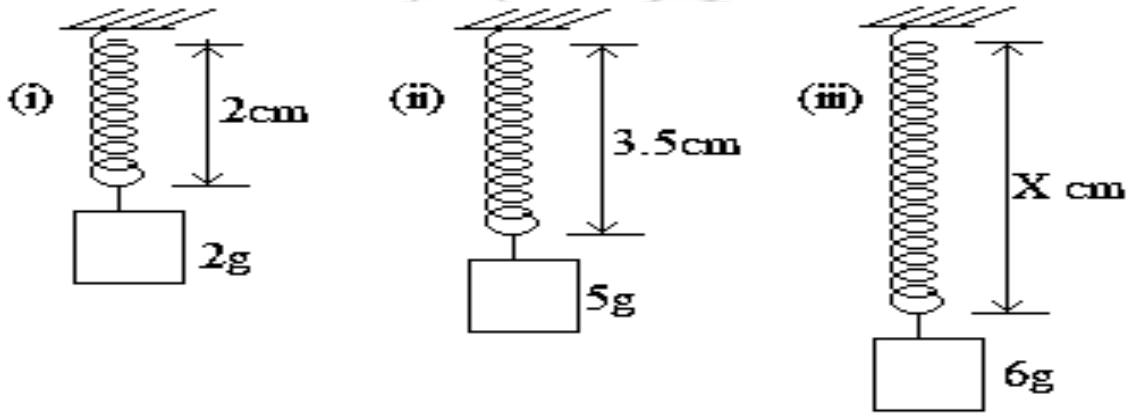
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9. The diagram below shows three identical springs which obey Hooke's law.



Determine the length X. **(3 marks)**

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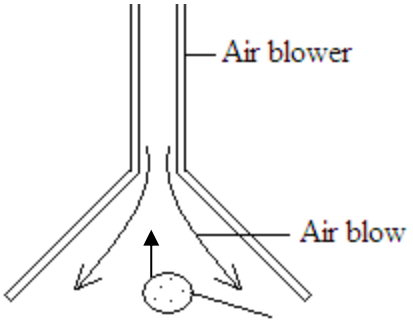
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10. The figure below shows a pith ball being lifted in to a funnel end of a blower.



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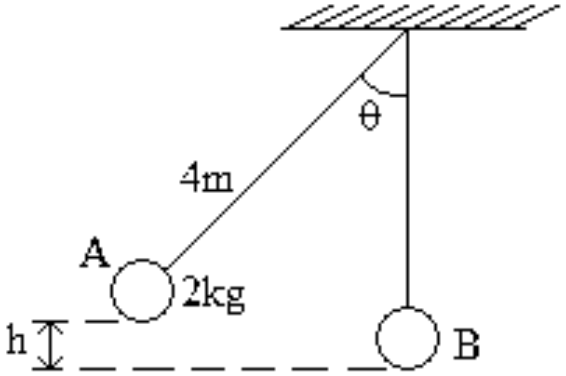
Explain this observation **(2 marks)**

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11. A metal ball suspended vertically with a wire is displaced through an angle θ as shown in the diagram below. The body is released from A and swings back to 'B'.



Given that the maximum velocity at the lowest point B is 2.5 m/s. Find the height h from which the ball is released $(g = 10m/s^2)$ **(3 marks)**

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SECTION B (55 MARKS)

Answer questions in the spaces provided.

12. (a) Distinguish between solid and liquid states of matter in terms of intermolecular forces **(1 mark)**

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(b) In an experiment to estimate the diameter of an oil molecule, an oil drop of diameter 0.05 spreads over a circular patch whose diameter is 20cm

Determine

(i) The volume of the oil drop **(2 marks)**

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(ii) The area of the patch covered by the oil **(2 marks)**

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(iii) The diameter of the oil molecule **(2 marks)**

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(c) State;

(i) Any assumption made in (b) (iii) above **(1 mark)**

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(ii) Two possible sources of errors in this experiment **(2 marks)**

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13. (a) (I)State what is meant by centripetal acceleration **(1 mark)**

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(**II)** A block of mass 200g is placed on a frictionless rotating table while fixed to the centre of the table by a thin thread. The distance from the centre of the table to the block is 15cm. if the maximum tension the thread can withstand is 5.6N. Determine the maximum angular velocity the table can attain before the thread cuts. (**4mks)**

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(b) Define the term velocity ratio as used in machines **(1 mark)**

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(c) Figure 6 shows a block and tackle pulley system lifting a load of 500N

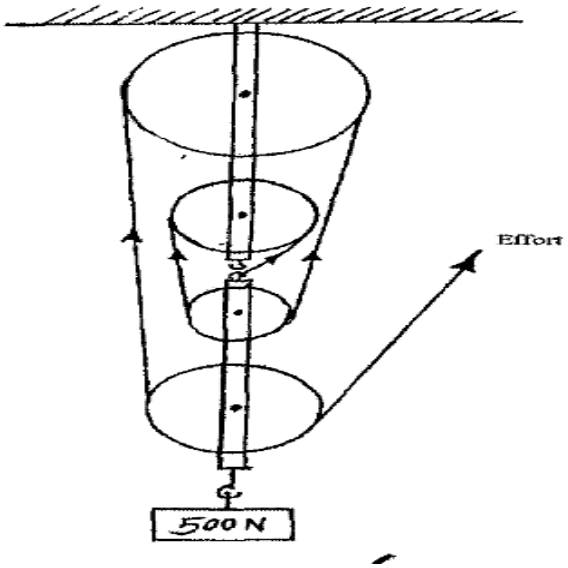


Fig 6

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(i) Determine the velocity ratio of the machine **(1 mark)**

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(ii) If an effort of 120N is required to lift the load using the machines determine the efficiency of the pulley system **(3 marks)**

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(iii) In the space provided below, sketch a graph of efficiency against load for the system.

(2 marks)

14. A car of mass 2000kg travelling at 5m/s collides with a minibus of mass 5000kg travelling in the opposite direction at 7m/s, the vehicles stick and move together after collision. If the collision lasts 0.1 seconds

(a) Determine the velocity of the system after collision to 3 decimal places **(3 marks)**

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(b) Calculate the impulsive force on the minibus **(3 marks)**

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(c) (i) Calculate the change in kinetic energy of the system to 5 significant figures **(3 marks)**

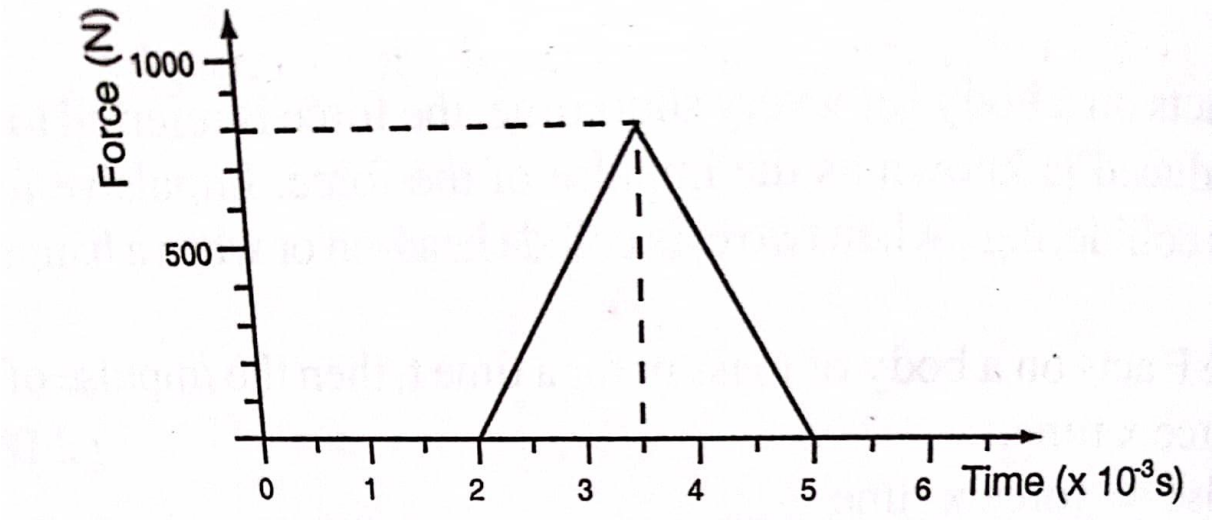
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(d) The graph below shows the force on a tennis ball when served during a game.



Determine the mass of the racket with a velocity of $40ms^{-1}$ (assume the ball was stationary before being struck) **(3 marks)**

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15. a) Define specific heat capacity. **(1 marrk)**

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b) In an experiment to determine the specific latent heat of water, steam at 100^0C was passed into water contained in a well lagged copper calorimeter.
The following measurements were made

- Mass of colorimeter = 60g
- Initial mass of water = 80g
- Initial room temperature of water = 15^0c
- Final temperature of the mixture 45^0c
- Final mass of water + calorimeter + condensed steam =160g
- Specific heat capacity of water = 4200Jkg^{-1}k^{-1} and specific heat capacity of copper = 390Jkg^{-1}k^{-1}

i). Determine

a) Mass of condensed steam **(1 mark)**

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b) Heat gained by the calorimeter and water. **(4 marks)**

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ii) Given that Lv is the specific latent heat of evaporation of steam,

a). Write an expression for the latent heat of vaporization of steam. **(2 marks)**

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b) Determine the value of Lv. **(2 marks)**

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16. (a) State Charles law. **(1 mark)**

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b) Describe an experiment to verify Charles law. **(5 marks)**

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c) Using kinetic theory explains how temperature affects the volume of a gas. **(2 marks)**

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d) The volume of mass of air at temperature 27^0 C is $300cm^3$. Find the volume of the air at $-73\ ^0$ C. **(3 marks)**

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KCSE 2023 PREDICTION

POSSIBLE SERIES 1 EXAM

PHYSICS

232/2

PAPER 2 (THEORY)

TIME: 2 HOURS

NAME……

SCHOOL…… **SIGN**……

INDEX NO…… **ADM NO**……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

(a) Write your name, Index number and School in the spaces provided above
(b) Sign and write the date of the examination in the spaces provided above
(c) This paper consists of two sections; A and B
(d) Answer all the questions in section A and B in the spaces provided
(e) All workings must be clearly shown in the spaces provided below each question
(f) Non programmable silent electronic calculators may be used.

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Section	Question	Maximum Score	Candidate's Score
A	1 - 13	25	
B	14	10	
	15	9	
	16	8	
	17	9	
	18	10	
	19	9	
Total Score		80	

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SECTION A (25marks)

*Answer **all** the questions in this section in the spaces provided*

1. (a) **Figure 1** below shows a plan view of an object **O** in front of a plane mirror

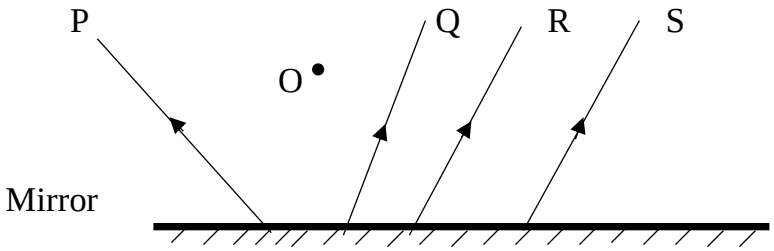


Figure 1

Which one of the reflected rays of light **P, Q, R** and **S** appears to come from the image of **O (1 mrk)**

……

2. **Figure 2** below shows an uncharged pith ball **A** under the attraction of a charged ball **B**.

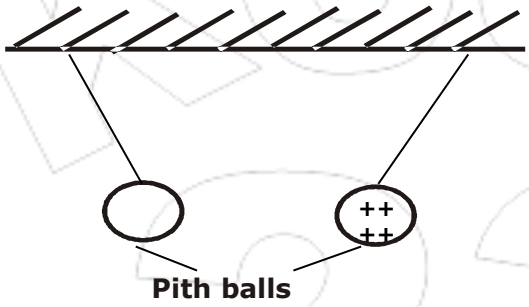


Figure 2

State and explain what would be observed after the two pith ball touch each other **(2 marks)**

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3. **Figure 3** below shows the features of a dry Leclanche cell.

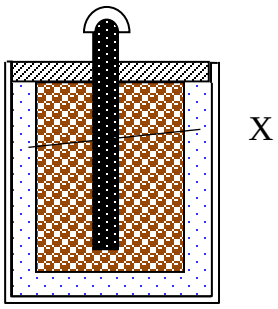


Figure 3

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State the function of the part labelled **X** **(1 mark)**

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4. What is meant by the term **"lost volts"** as used in cells **(1 mark)**

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5. **Figure 4** below shows a longitudinal wave that takes 0.5s to move from point A to B and at a speed of 36m/s.

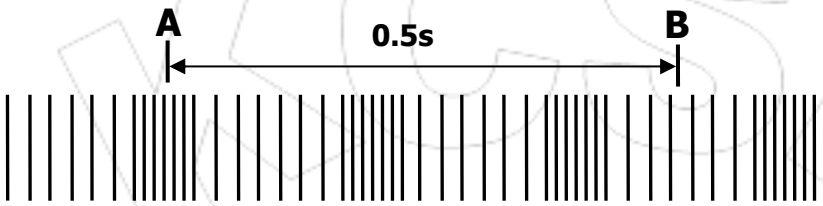


Figure 4

Calculate the frequency of the wave **(2 marks)**

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6. **Figure 5** represents an object **O** and the image **I** formed by a concave mirror.

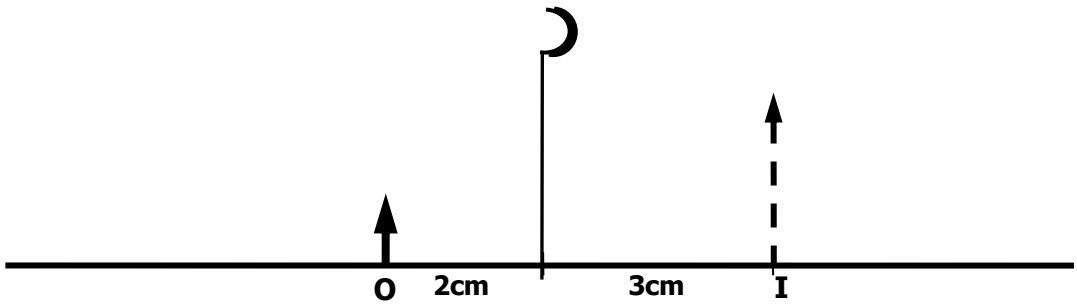


Figure 5

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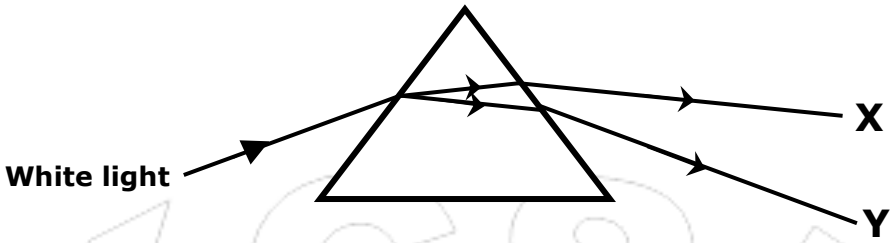
By suitable rays, determine the focal length of the mirror. (**2 marks)**

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7. Figure 6 shows white light falling on a prism as indicated.



a) Name the colour at **X** and **Y** **(2 marks)**

X ……..

Y ……..

b) What measurable quantity is associated with colour of light? **(1 mark)**

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8. Explain how hammering demagnetizes a magnetized iron bar **(2 marks)**

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9. Figure 7 shows a standing wave on a string, fixed at both ends.

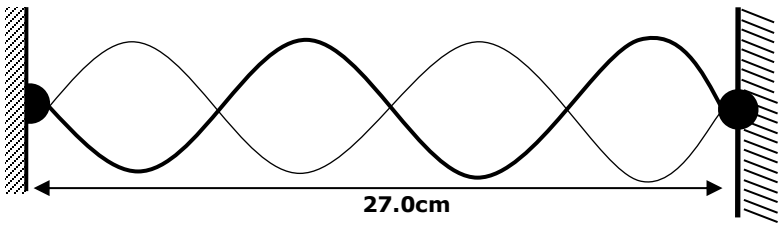


Figure 7

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Explain how the standing wave is generated. **(3 marks)**

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10. Figure 8 below shows a positive charge near a plate carrying negative charge.

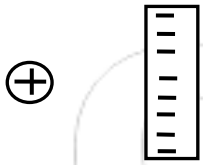


Figure 8

Draw the electric field between them. **(2 marks)**

11. Figure 9 represents part of electric cooker coil.

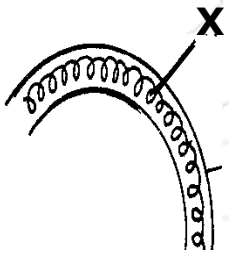


Figure 7

(i) Why is the material labeled X is coiled? **(1 mark)**

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……

(ii) State the property of material X that makes it suitable for its use. **(1 mark)**

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12. State **two** factors affecting the type of shadow formed by an object placed in front of a source of light. **(2 marks)**

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13. The graph below shows radioactive decay of iodine.

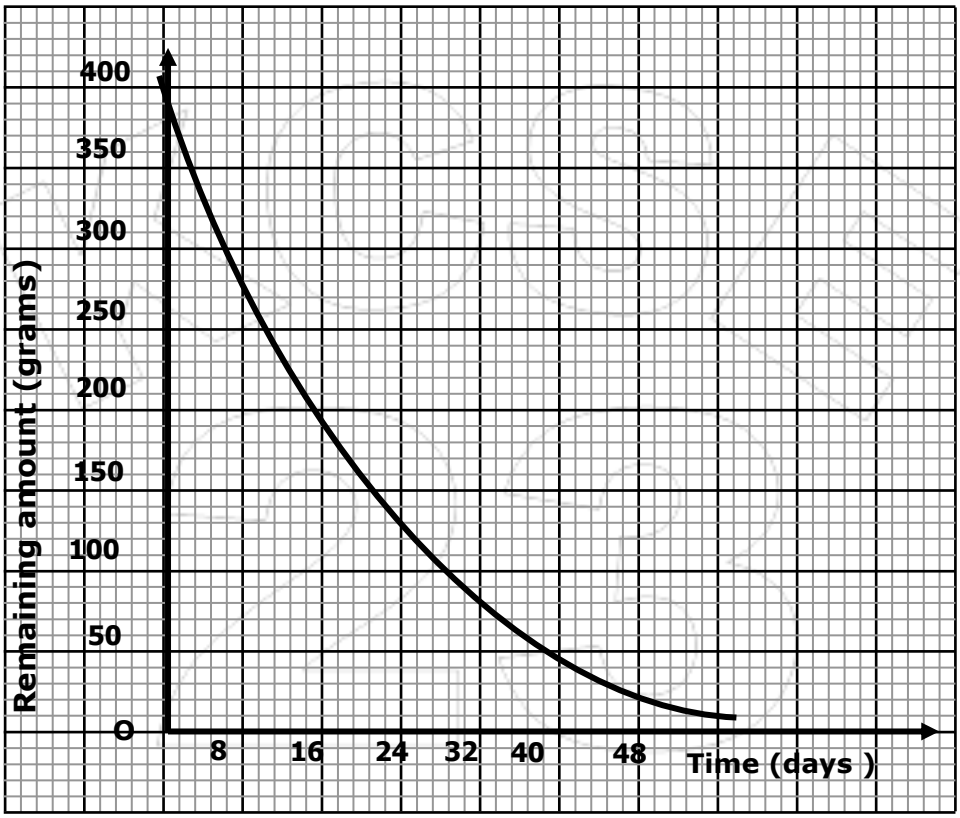


Figure 10

Use the graph to determine the fraction of the amount remaining after 16 days. **(2 marks)**

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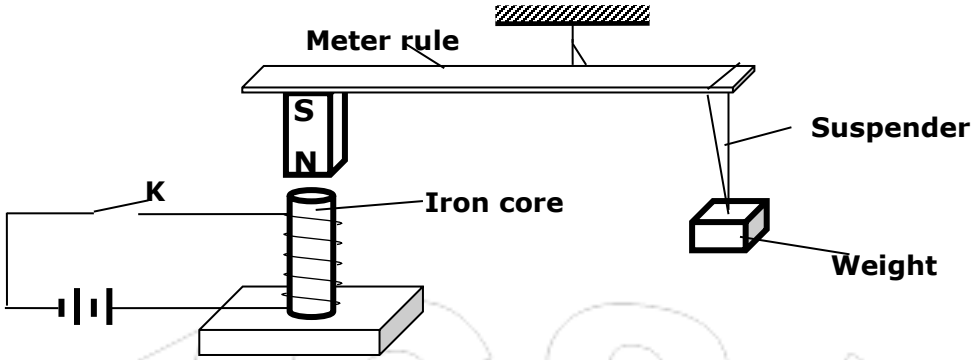
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SECTION B (55 marks)

Answer all the questions in this section in the spaces provided

14. (a) In the setup below, the suspended meter rule is in equilibrium balanced by the magnet and the weight shown. The iron core is fixed to the bench.



(i) State and explain the effect on the meter rule when the switch **K** is closed. **(3 marks)**

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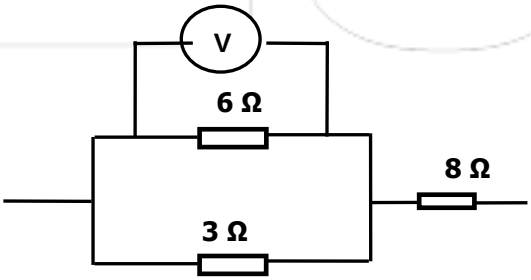
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(ii) What would be the effect of reversing the battery terminals? **(1 mark)**

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(b) **Figure 12** shows three resistors connected as shown.



If the voltmeter, V reads **4V**, find the Potential difference across the 8Ω resistor. **(3marks)**

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(c) A student stands some distance from a high wall and claps her hands.

(i) What two measurements would he need to make in order to determine the speed of sound?

(2 marks)

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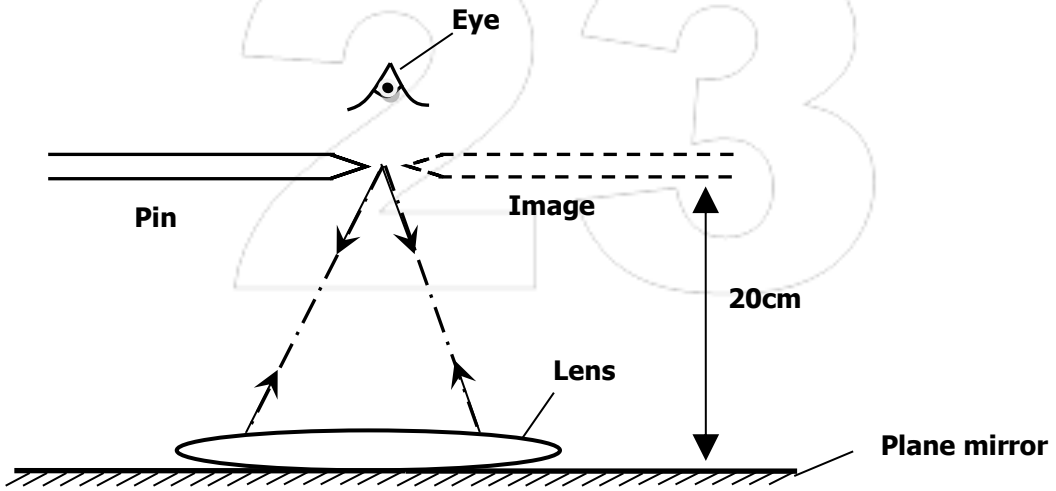
(ii) Show how you would make use of these measurements to determine the speed of sound in air

(1 mark)

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15. (a) Students wanted to determine the focal length of a convex lens of thickness 0.6cm using an optical pin and a plane mirror. **Figure 13** shows the experimental set up used when there was no parallax between the pin and the image.



(i) Use the setup to determine the focal length of the lens. **(2 marks)**

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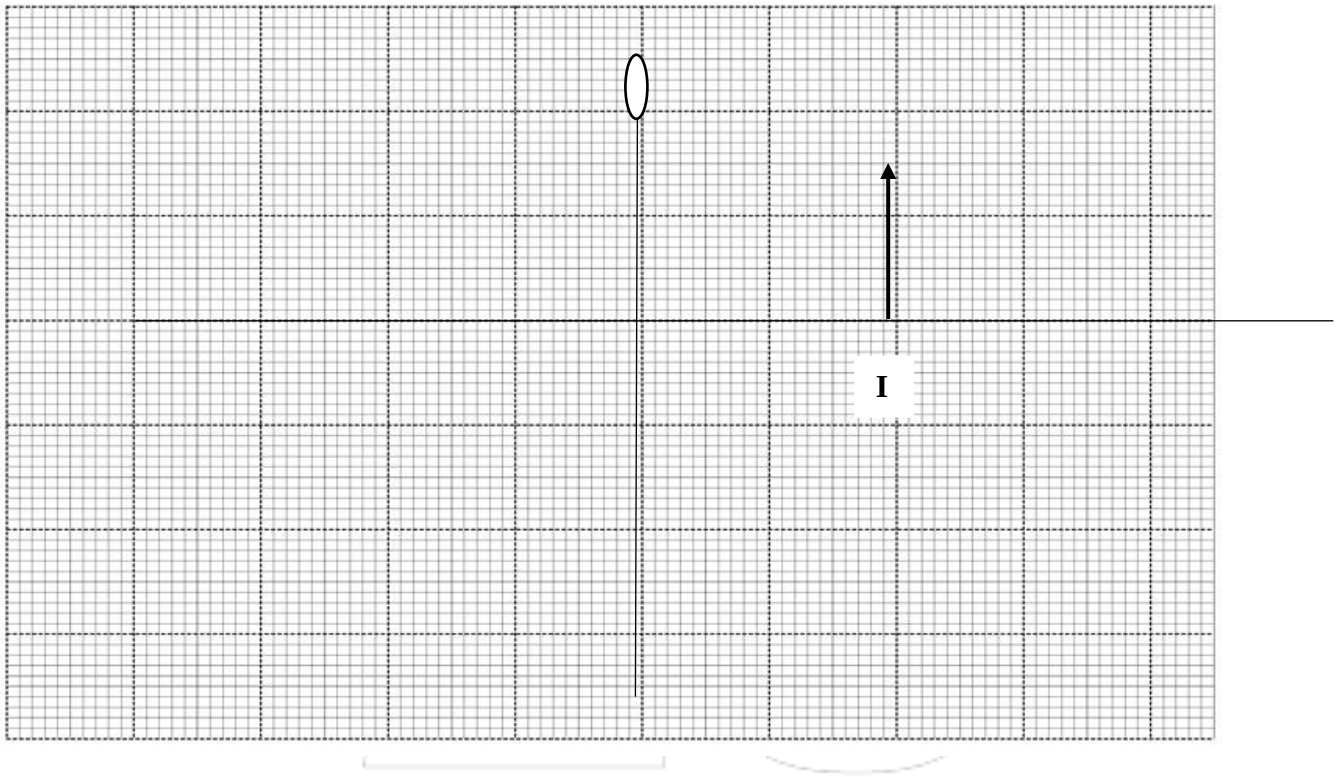
(ii) Explain how you arrive at your answer. **(2 marks)**

……

……

……

(b) An Image, **I** 15cm tall stands vertically on the principal axis of a convex lens of focal length 10cm and at a distance of 20cm from the lens as shown in **figure 14** below. ***(the graph is drawn to scale)***



(i) By ray construction, complete the diagram to show the position of the object **(3 marks)**

(ii) Determine the size of the object **(1 mark)**

……

……

……

(iii) Determine the object distance **(1 mark)**

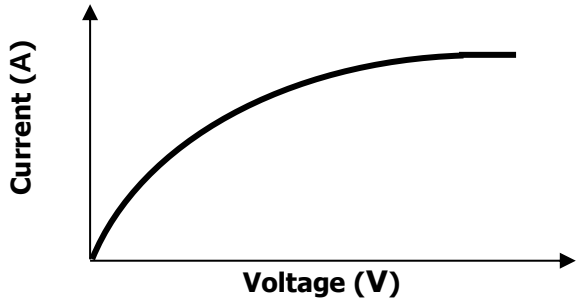
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16. (a) For a particular bulb, a series of readings of the current through the bulb for different potential differences across it is taken and plotted as shown in **figure 15** below.



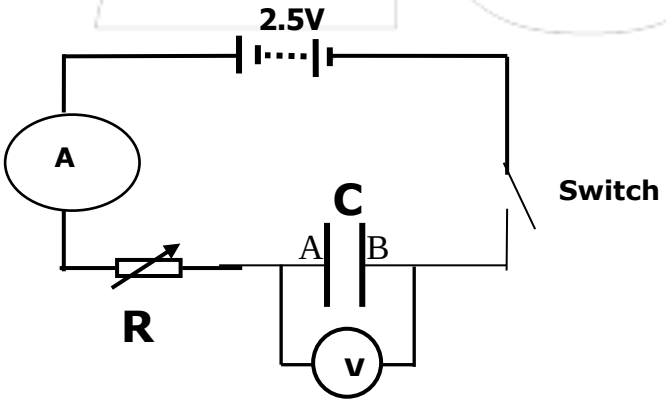
(i) Draw the circuit diagram you would use for the experiment. **(3 marks)**

(ii) Explain how the resistance of the bulb changes **(1 mark)**

……

……

(b) The **figure 16** below shows a capacitor **C** being charged.



(i) State what would be observed on the ammeter when the switch is closed: **(1 mark)**

……

……

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(ii) Explain how the capacitor is charged. **(3 marks)**

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……

17. (a) What is meant by donor impurity in a semiconductor? **(1 mark)**

……

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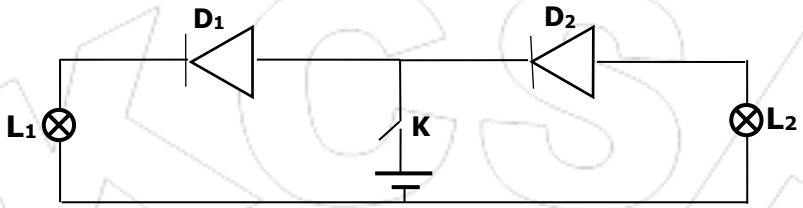


Figure 17

(i) State the observation made on $\mathbf{L_1}$ and $\mathbf{L_2}$ when switch **K** is closed. **(1 mark)**

……

……

(ii) Account for the observation made above. **(1 mark)**

……

……

(c) You are provided with ***a diode, a resistor R, an a.c source of low voltage*** and ***connecting wires.*** In the space provided, sketch the circuit diagram for a half-wave rectifier and indicate the terminals where the output voltage v_0 may be connected. **(2 marks)**

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(d) (i) Alpha particles (∝) are more ionizing than Beta (β) particles. Give **two** reasons for this.

(2 marks)

……

……

……

(ii) Fig shows the path of radiation from a radioactive source after entering a magnetic field. The magnetic field is directed into the paper and is perpendicular to the place of the paper shown in the figure.

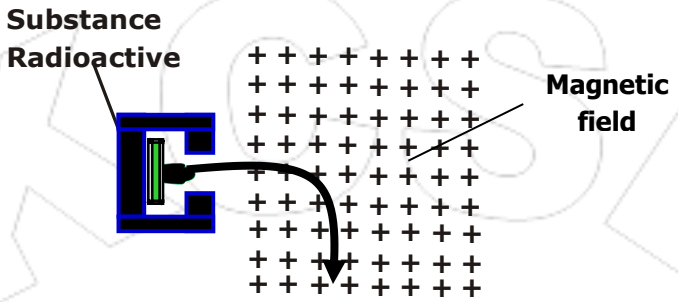


Figure 18

I) Identify the radiation. **(1 mark)**

……

II) Give a reason for your answer. **(1 mark)**

……

……

18. (a) A surface whose work function θ is 2.46eV is illuminated by light of frequency $3x10^{15}$ Hz. Calculate the maximum kinetic energy of the ejected photoelectrons.
($h = 6.63 \times 10^{-34}$js and $e = 1.6 \times 10^{-19}$C). **(3 marks)**

……

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(b)A monochromatic beam of radiation is directed on a clean metal surface so as to produce photoelectrons. Give a reason why some of the ejected photoelectrons have more kinetic energy than others. **(1 mark)**

……

……

(c)(i) Figure below shows an electric generator. The points P and Q are connected to a cathode Ray oscilloscope (C.R.O)

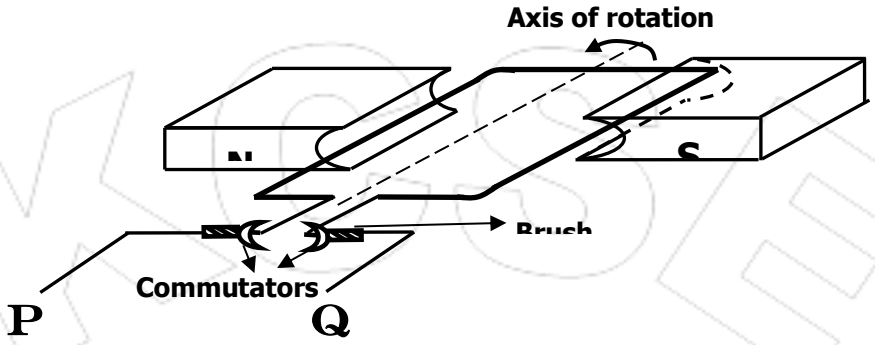
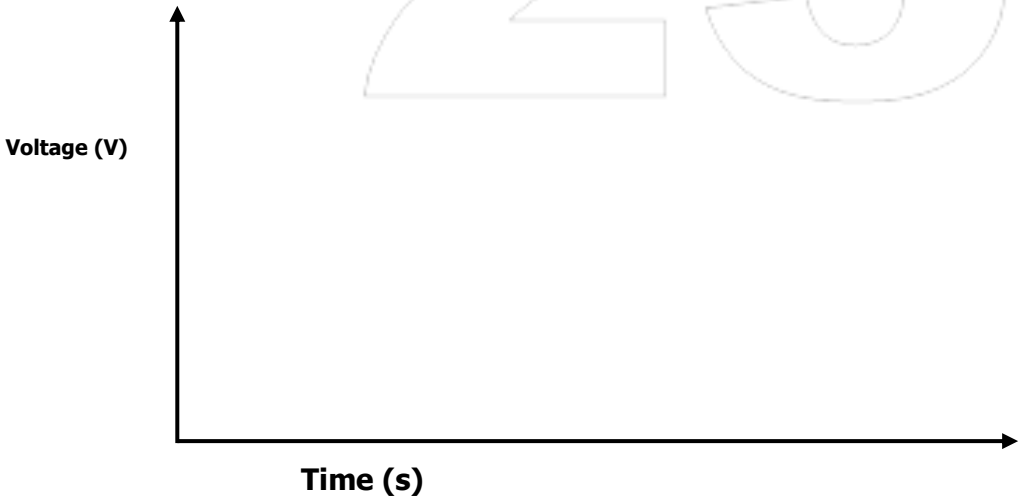


Figure 19

Sketch on the Axis provided the graph of the voltage output as seen on the C.R.O, given that when t= o, the coil is at the position shown in the figure **(1 mark)**



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(ii) The emf generated by **a.c** generator is represented in the graph in **Figure 20**.

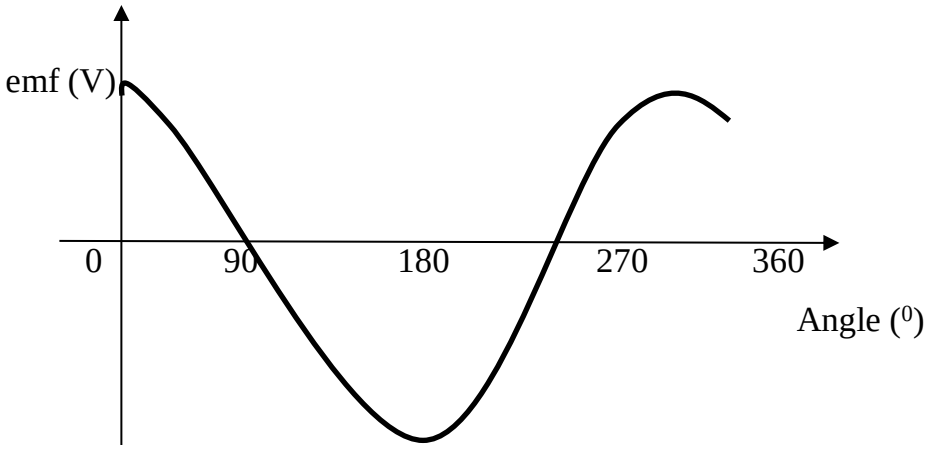


Figure 20

Give reasons for the changes in the emf as the coil rotates from 0^0 to 90^0 and 90^0 to 180^0.

(3 marks)

……

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(d) An immersion heater rated 3000W is used continuously for 45 minutes per day. Calculate the cost per week at 60cts per unit. **(2 marks)**

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……

19. (a) **Figure 21** shows the electric wiring of an electric cooker. X, Y and Z are main wires.

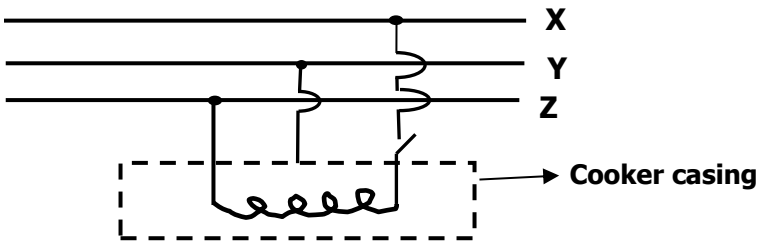


Figure 21

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Identify the wires **Y** and **X** **(2 marks)**

X …….

Y …….

(b) What adjustment on the x-ray tube will;

(i) Increase the hardness of the x-**rays** **(1 mark)**

……

……

(ii) Reduce the intensity of the x-rays**.** **(1 mark)**

……

……

(c) A CRO screen with 1cm squares displays the trace in **figure 22** below.

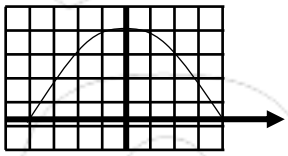


Figure 22

The Y- gain is set 0.5v/cm and the time base is set at 5ms/cm. **Determine**

(i) the voltage **(1 mark)**

……

……

……

(ii) the frequency of the signal **(3 marks)**

……

……

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(d) Figure 23 shows as simple form of cathode ray tube, which produces a sharp shadow of a Maltese cross on a screen.

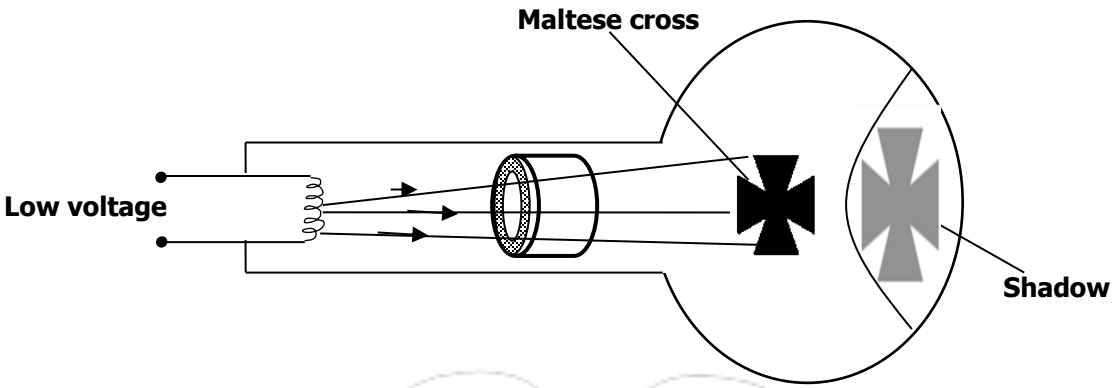


Figure 22

(ii) What property of cathode rays does the **figure 23** above illustrate **(1 mark)**

……

……

……

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KCSE 2023 PREDICTION

POSSIBLE SERIES 1 EXAM

PHYSICS

232/3

PAPER 3 (PRACTICAL)

TIME: 2½ HOURS

PRACTICAL CONFIDENTIAL

Please provide the following for the physics practical paper.

QUESTION 1

- 2 dry cells
- A cell holder
- A switch
- An ammeter *(with a scale range of 0-1A)*
- Six connecting wires
- Wire mounted on the metre rule labelled X ***(SWG 28 or 0.37mm in diameter)***
- A micrometer screw gauge *(to be shared)*
- A Voltmeter

QUESTION 2

- a metre rule
- knife edge raised at least 20 cm above bench
- one 50 g mass and one 100 g mass
- a beaker or any container
- 2 pieces of thread *(around 15 cm each)*
- some water in a beaker
- Liquid L in a beaker *(Paraffin)*
- Some tissue paper.
- A triangular **glass** prism
- A piece of soft board
- Four optical pins
- Four office pins
- A sheet of plain paper

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KCSE 2023 PREDICTION

POSSIBLE SERIES 1 EXAM

PHYSICS

232/3

PAPER 3 (PRACTICAL)

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES:

- *Write your **name** and **index number** in the spaces provided above.*
- *Sign and write the **date** of the examination in the spaces provided above.*
- *You are supposed to spend the first **15** minutes of the **2 ½** hours allowed for this paper reading the whole paper carefully before commencing your work.*
- *Marks are given for a clear record of the observation actually made, their suitability, accuracy and the use made of them.*
- *Candidates are advised to record their observations as soon as they are made*
- *Non-programmable silent electronic calculators **may be** used.*

For Examiner's Use Only.

Question	Maximum score	Candidate's score
1	20	
2	20	
Total	40	

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QUESTION 1

You are provided with the following: -

- 2 dry cells
- A cell holder
- A switch
- An ammeter
- Five connecting wires
- Wire mounted on the metre rule labelled x
- A micrometer screw gauge [to be shared
- A Voltmeter

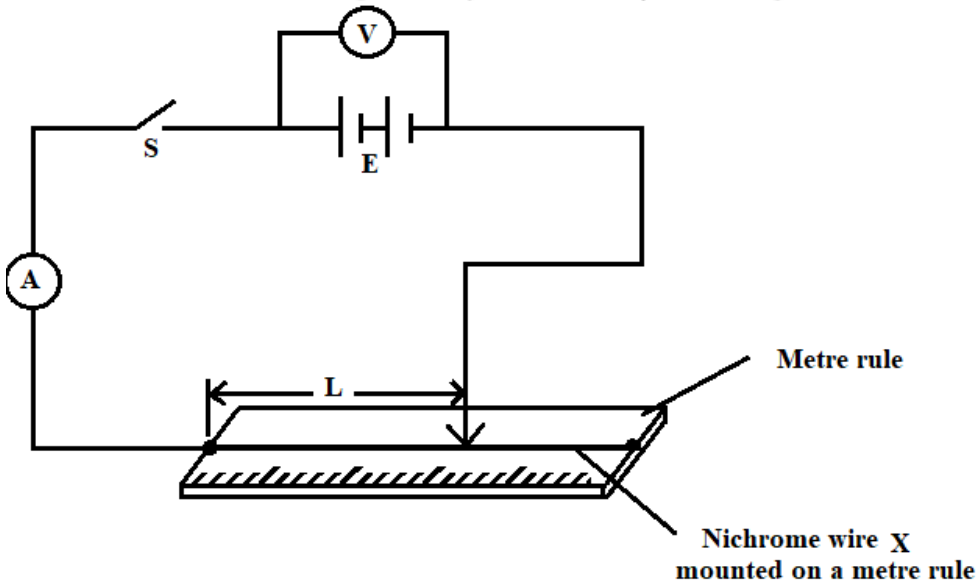
Proceed as follows

(a) Measure the diameter of the wire three times and determine the average diameter,

(b) D ……. m **(2 marks)**

(c) Determine the cross-section area of the wire, A……. m^2 **(1 marks)**

(d) Connect the circuit as shown in the figure below.



(e) Measure the voltage E from the Voltmeter, before closing the switch.

E = ... **(1 mark)**

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(f) Adjust the length, ℓ of the wire to 0.2m, close the switch, S and read the value of current and record in the table below.

Length, ℓ (m)	0.2	0.3	0.4	0.5	0.6	0.7
Current, I (A)						
$\frac{1}{I}$ $\left(A^{-1}\right)$						

(g) Repeat the procedure in (c) above for the values of lengths given. **(5 marks)**

(h) Calculate the value of $^{1}/_{I}$ and record in the table above. **(1 mark)**

(i) On the grid provided **plot** a graph of $\frac{1}{I}$ (y- axis) against l **(5 marks)**

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(j) Determine the gradient of the graph. **(2 marks)**

……

……

……

(k) Given that, $\frac{1}{I} = \frac{\delta}{EA} l + \frac{r}{E}$, determine the value of $\delta \; and \; r$. **(3 marks)**

……

……

……

……

QUESTION 2

You are provided with the following:

- a metre rule
- knife edge raised 20 cm above bench
- one 50 g mass and one 100 g mass
- a beaker or any container
- some thread
- some water in a beaker
- Liquid L in a beaker
- tissue paper
- A triangular glass prism
- A piece of soft board
- Four optical pins
- Four office pins
- A sheet of plain paper

PART A

Proceed as follows:

(a) Balance the metre rule edge and record the reading at this point

$Balance \; point$ = ... cm (1 mark)

For the rest of this experiment the knife edge must be placed at this position

(b) Set up the apparatus as shown in the figure below.

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(c) Use the thread provided to hang the masses such that the positions of support can be adjusted. The balance is attained by adjusting the position of the 100g mass.

Note that the distances X is measured form the knife edge and the 50g mass is fully submerged in the water.

(d) Record the value of X .

***X* =.....cm** **(1 mark)**

(e) Apply the principle of moments to determine the weight W_w of the 50 g mass in water and hence determine the up thrust U_w in water

W_w.....N **(2 marks)**

U_w N..... **(1 mark)**

(f) Remove the 50 g mass from the water and dry it using tissue paper.

(g) Maintaining the distance of 30cm in step (d), now balance the metre rule when the 50 g mass is fully submerged in the liquid L Record the value of the distance X.

***X* =.....cm** **(1 mark)**

(h) Apply the principle of moments to determine the weight W_L of the 50 g mass in the liquid L and hence determine the upthrust U_L in the liquid

(i) W_L= **(2 mark)**

……

(ii) U_L= **(1 mark)**

……

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(iii) RD of liquid L **(2 marks)**

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PART B

Proceed as follows:

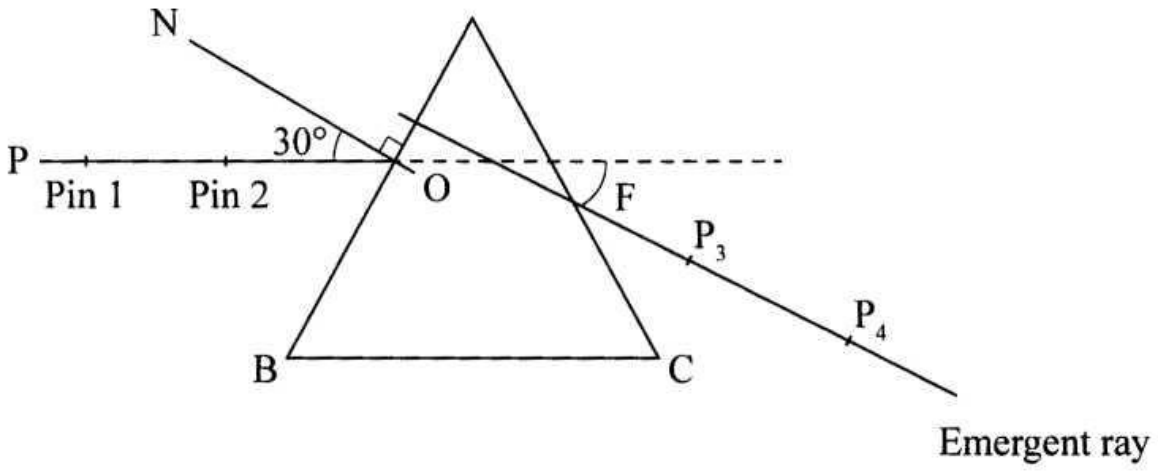
(a) Place the plain sheet of paper on the soft board and pin it using the office pins at the comers. Trace the triangular prism outline of the prism on the sheet of paper (use the upper part to leave space for two other outlines on the same page). Label the vertices of the outline at A, B and C. Remove the prism from the paper.

(b) On the outline at a point O near the centre of side AB draw a normal ON.

(c) Draw a line PO at an angle of 30° to the normal ON as shown in **the figure below.**

(d) Replace the prism accurately on the outline. Fix two optical pins vertically on line PO at different points **(see the figure below).**

(e) View the images of the two pins through side AC of the outline. Fix a third and fourth pin vertically such that they are in line with the images of the first and second pin. Remove the prism and the pins. Draw a line joining the marks made by the third and fourth pins and extend it to join line PO (also extended) as shown below**.**



Measure F, the angle of deviation of the emergent ray. **(2 marks)**

……

……

……

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(f) Repeat part (e) for other angles of incidence shown in the table below**.** (Draw a fresh outline of the prism for each angle of incidence)

Complete table 1 (3 marks)

Angle of incidence	30°	50°	70°
Angle of deviation			

(g) Determine:

(i) E the angle of emergence (between the emergent ray and the normal at the point of emergence) at the least angle of deviation. **(2 marks)**

……

……

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……

(ii) K given that $K = 2\sin\left(30 + \frac{F_o}{2}\right)$ (where F_0 is the least angle of deviation) **(2 marks)**

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(Attach the plain sheet of paper to your question paper and hand them in).

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KCSE 2023 PREDICTION

POSSIBLE SERIES 1 EXAM

AGRICULTURE

443/1

PAPER 1

TIME: 2 HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

(a) *Write your name, index number, admission number and class in the spaces provided.*

(b) *Sign and write the date in the spaces provided above.*

(c) *Answer **all** the questions in section A and B.*

(d) *Answer any **two** questions in section C.*

(e) *Answers should be written in the spaces provided.*

For Examiner's Use Only

	Question	Maximum Score	Candidate's Score
A	1-16	30	
B	17-20	20	
C	21-23	20	
		20	
Total score		90	

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SECTION A. (30 MARKS)

Answer ALL questions in this section in the spaces provided

1. Name **four** classes of livestock farming **(2 marks)**

……

……

……

……

2. State **four** advantages of landlordism and tenancy land tenure system. **(2marks)**

……

……

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……

3. Give **four** methods of harvesting agro forestry trees **(2 marks)**

……

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……

……

4. State **four** characteristics of a good grain store. **(2 marks)**

……

……

……

……

5. Give **four** structural soil and water conservation measures. **(2 marks)**

……

……

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6. Name **two** types of labour records kept by a farmer. **(1 mark)**

……

……

7. State **four** methods of land acquisition **(2 marks)**

……

……

……

……

8. State **four** factors which increases seed rate during planting **(2 marks)**

……

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9. State **four** importance of growing crops under optimum temperature **(2 marks)**

……

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……

10. Name **four** classes of weeds. **(2 marks)**

……

……

……

……

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11. State **four** factors to consider when siting a nursery bed. **(2 marks)**

……

……

……

……

12. State **four** contents of a tomato sales receipt **(2 marks)**

……

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13. State **four** factors that determine pesticide efficiency. **(2 marks)**

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14. State **four** conditions under which land clearance may be necessary. **(2 marks)**

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15. Name **two** non-competative market system **(2 marks)**

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……

16. Name **two** methods of soil sampling. **(1 mark)**

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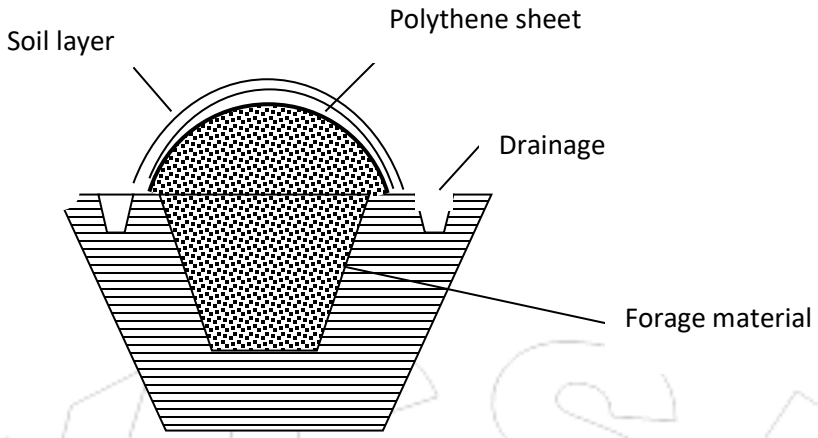
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SECTION B (20MARKS)

Answer ALL the questions in this section in the spaces provided.

17. The diagram below shows a method of forage conservation



(i) Name the structure illustrated above **(1 mark)**

……

(ii) Name the form of forage conservation using the above structure. **(1 mark)**

……

(iii) State **two** factors to consider when siting the structure. **(2 marks)**

……

……

(iv) Name other form of forage conservation apart from the one illustrated above**.** **(1 mark)**

……

……

18. Below is a format of a record kept by a farmer. Use it to answer the questions the follow.

Date	Disease symptom	Animal affected	Drug used	Cost of treatment	Remarks

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(i) Name the type of farm records illustrated above. **(1 mark)**

……

(ii) State two importance of the record to the farmer **(2 marks)**

……

……

(iii) Give any two entries on the remark section. **(2 marks)**

……

……

19. During harvesting of tomato, a farmer noticed some symptoms at the bottom of the tomato fruit as shown below



(i) Name the disease whose symptom is illustrated in the tomato (diagram) **(1 mark)**

……

(ii) State two causes of the disease in the tomato **(2 marks)**

……

……

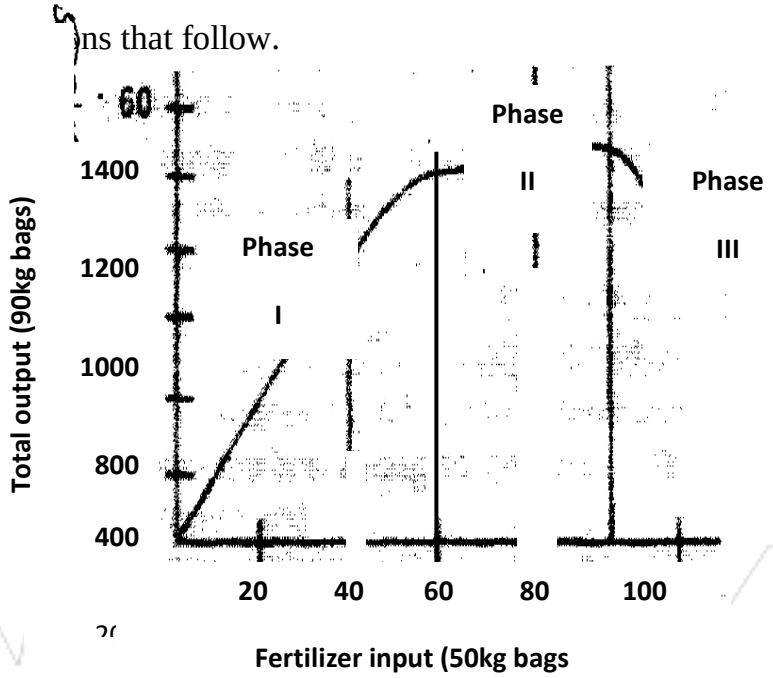
(iii) State two ways of controlling the disease. **(2 marks)**

……

……

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20. Below is a graphical representation of a law in Agricultural economics. Study the graph carefully and answer the ons that follow.



i) Identify the law represented by the graph. **(1 mark)**

……

ii) State the law. **(1 mark)**

……

……

iii) Explain how each additional unit of fertilizer input relates to total output of maize in the Phases II and III.

Phase II …….. **(1 mark)**

Phase III ……..…….. **(1 mark)**

iv) State the importance of the law identified in (i) above to a maize farmer**.** **(1 mark)**

……

……

……

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SECTION C (40 MARKS)

Answer any two questions from this section in the spaces provided

21. i) State five importance of irrigation. **(5 marks)**

ii) State four roles of calcium in crops. **(4 marks)**

iii) State six cultural disease control measures. **(6 marks)**

iv) Describe five factors that may increase the demand of maize in Bondo market. **(5 marks)**

22. i) State five causes of land fragmentation. **(5 marks)**

ii) Describe five ways by which soil looses its fertility. **(5 marks)**

iii) Describe transplanting of tomato seedlings from the nursery bed to a seedbed**. (5 marks)**

iv) Describe the management of agro forestry trees. **(5 marks)**

23. i) Describe five ways by which a farmer can overcome risks and uncertainties in maize production. **(5 marks)**

ii) Describe harvesting and precaution taken during harvesting of tea. **(5 marks)**

iii) State four farming practises which may destroy soil structure. **(4 marks)**

iv) State six importance of crop rotation in a farming business. **(6 marks)**

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KCSE 2023 PREDICTION

POSSIBLE SERIES 1 EXAM

AGRICULTURE

443/2

PAPER 2

TIME: 2 HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

(a) *Write your name, index number, admission number and class in the spaces provided.*
(b) *Sign and write the date in the spaces provided above.*
(c) *Answer **all** the questions in section A and B.*
(d) *Answer any **two** questions in section C.*
(e) *Answers should be written in the spaces provided.*

FOR EXAMINER'S USE ONLY

	Question	Maximum Score	Candidate's Score
A	1-18	30	
B	19-21	20	
C		20	
		20	
Total score		90	

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SECTION A (30MARKS)

Answer all questions in this section

1. Give **two** reasons for docking in sheep production. **(1 mark)**

……

……

2. Give **four** ideal qualities of a good calf pen **(2 marks)**

……

……

……

……

3. Outline **four** characteristics of Romney marsh sheep breed **(2 marks)**

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……

4. (a) State **two** disadvantages of using metal frames in construction of farm buildings (**1 mark)**

……

……

(b) Give **two** reasons for seasoning timber **(1 mark)**

……

……

5. Outline **four** reasons for swarming of bees **(2 marks)**

……

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6. List **two** methods that can be used to preserve fish **(1 mark)**

……

……

7. (a) What is a notifiable disease? **(1 mark)**

……

……

(b) Name **four** examples of notifiable diseases in livestock. **(2 marks)**

……

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8. Name **two** major physical differences between Bactrian and Dromedary breeds of camel.(**1 mrk)**

……

……

9. State **two** characteristics of heavy poultry breeds. **(1 mark)**

……

……

10. List **two** maintenance practices of a wood chisel. **(1 mark)**

……

……

11. State **four** ways of controlling tsetse flies. **(2 marks)**

……

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12. State **four** characteristics of livestock roughage feedstuff. **(2 marks)**

……

……

……

……

13. List **two** equipment used in handling cattle during agricultural exhibition. **(1 mark)**

……

……

14. State the gestation period of the livestock animals given below

a) Rabbit **(½ mark)**

……

b) Goat **(½ mark)**

……

15. State **four** disadvantages of natural mating **(2 marks)**

……

……

……

……

16. State **one** egg content added to it at the magnum during egg formation process. **(1 mark)**

……

17. State **four** methods used to control cannibalism in a deep litter system **(2 marks)**

……

……

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18. (a) Give **three** uses of Biogas in the farm **(1 ½ marks)**

……

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……

(b) State **three** reasons why the use of wind power on the farm is limited. **(1 ½ marks)**

……

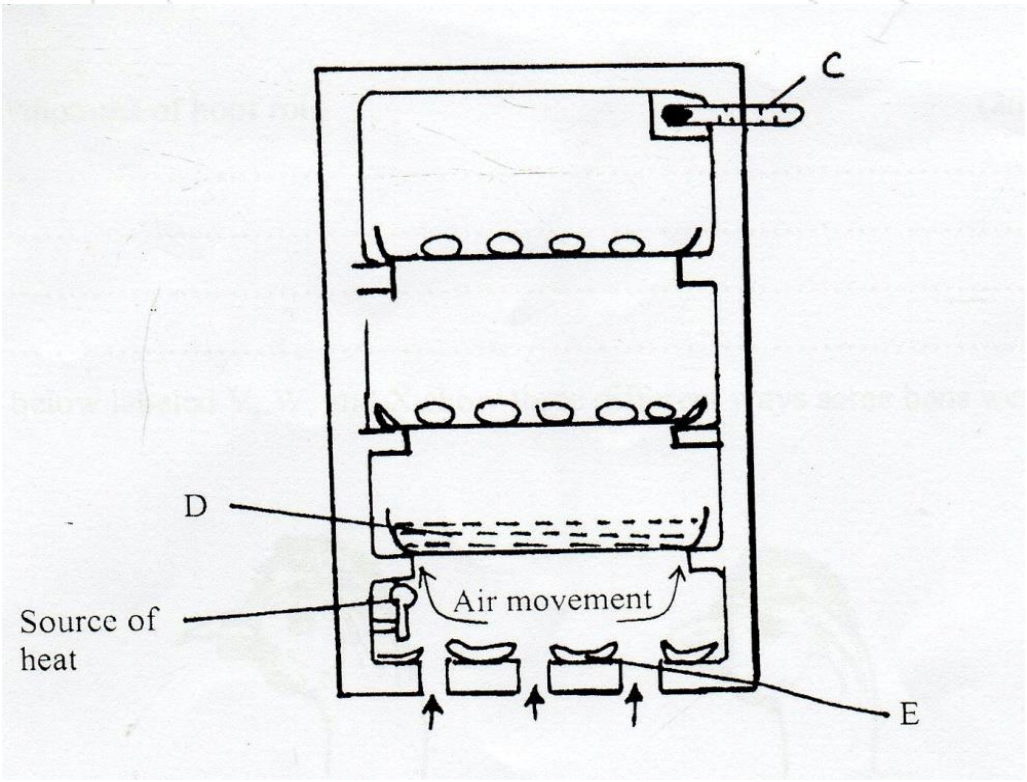
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SECTION B: (20MARKS)

Answer all questions in this section.

19. (a) The illustration below represents equipment used in poultry production. Study it carefully and answer the questions that follow:



i) Identify the equipment illustrated above. **(1 mark)**

……

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ii) Name the parts labeled C, D and E on the diagram of the equipment illustrated on the equipment in (a) above **(1 ½marks)**

C ……

D ……

E ……

iii) What are the functions of the parts labeled C, D and **E** **(3marks)**

C ……

D ……

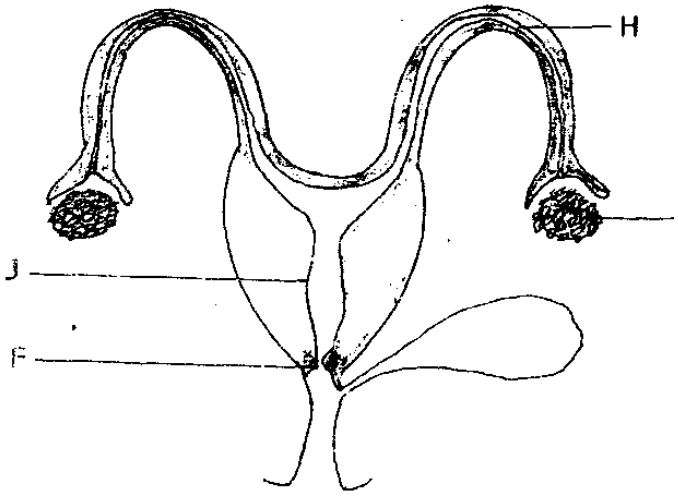
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iv) Why is it important to turn the eggs around 180 oc every 6- 8 hours? **(1mark)**

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b) The diagram bellows shows the reproductive system of a cow. Study it and answer the questions that follow.



(i) Name the parts labeled J, F and H. **(1½ marks)**

J ……..

F ……

H ……

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(ii) State one function of each of the parts labeled **J and H**

J …….. (1 mark)

H ……..…. (1.mark)

(iii) Name three reproductive hormones in dairy cattle **(3 marks)**

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20. (a) The illustrations below labeled V, W, and X show three different ways some hens were debeaked.



V W X

i) Which hen was correctly debeaked**?** **(1 mark)**

……

ii) State two reasons for your choice in (i) above**.** **(1 mark)**

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(b) Name any two tools which would be used for debeaking. **(2 marks)**

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21. Boran Dam X FRIESIAN SIRE – f1 heifer x charolais

(a) What type of breeding system is shown above? **(1 mark)**

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(b) Why would you recommend such a breeding system? **(1 mark)**

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(c) What characteristic in the heifer are you improving by using such a breeding system? **(1 mark)**

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SECTION C: (40 MARKS)

Answer any two questions

22. (a)Outline ten differences between a tractor drawn mould plough and an ox mouldboard.**(10 mks**

(b) Describe management of growers to point of lay. **(10 marks)**

23. (a) (i) Give three factors considered in siting a farm structure. **(3 marks)**

(ii) Describe the functions of each of the following parts of a plunge dip. **(7 marks)**

(a) Foot bath
(b) Entrance race
(c) Roof
(d) Drainage race
(e) Jump
(f) Dip tank
(g) Exit step

(b) Describe the procedure of constructing a barbed wire fence. **(10 marks)**

24. (a) (i) Give three factors affecting the amount of food given to an animal. **(3 marks)**

(ii) State and explain seven essential of clean milk production. **(7 marks)**

(b) Describe digestion of grass in the rumen of a cow. **(10 marks)**

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KCSE 2023 PREDICTION

POSSIBLE SERIES 1 EXAM

BUSINESS STUDIES

565/1

PAPER 1

TIME: 2 HOURS

NAME……

SCHOOL…… **SIGN**……

INDEX NO…… **ADM NO**……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

(a) *Write your name, admission number and class in the spaces provided above.*

(b) *This paper consist of 25 questions*

(c) *Answer* ***all*** *the questions in the spaces provided*

For Examiner's Use Only

Question	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Marks															

Questions	16	17	18	19	20	21	22	23	24	25
Marks										

TOTAL MARKS

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*Answer **all** the questions in the spaces provided*

1. Give the **rewards** to each of the following items related to factors of production. **(4 marks)**

i. Manager ……..

ii. Business owner ……...

iii. Tractor ……...

iv. Gold ……...

2. State the **type of document** described by each of the following statements. **4 marks)**

Description	Document
i. Show from which country the goods are coming from	
ii. Written by an exporter authorizing his bank to sell goods on his behalf	
iii. Allow importer to get goods on credit and cannot be changed by the importer without the exporter's permission	
iv. Help in quicker clearance and is issued by a country's official abroad	

3. Identify **four** external physical factors that may compromise business performance. **(4 marks)**

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4. Outline **four** circumstances under which Hire purchase may be used in acquiring goods. **(4 mks)**

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5. State **four** demerits of using internet as a means of communication. **(4 marks)**

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6. Highlight **four** ways in which an investor may benefit from stock exchange market. **(4 marks)**

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7. State **four** negative effects of high taxation. **(4 marks)**

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8. Outline **four** ways in households contribute to the national income of a country. **(4 marks)**

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9. State **four** reasons why one would hire human porterage instead of pick-up to transport goods.

(4 marks)

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10. Outline **four** benefits of commercial production. **(4 marks)**

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11. Identify **four** common characteristics between goods and services. **(4 marks)**

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12. The following information relates to Jabungu Traders.

Item	**shs**
Land and building	490,000
Machinery	300,000
5 Year loan	110,000
2 Year loan	80,000
Creditor	90,000
Debtors	100,500
Stock	75,600
Cash	40,000
Bank overdraft	69,900

Calculate the following

i. Working capital **(1 mark)**

ii. Capital employed **(1 mark)**

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iii. Capital owned **(1 mark)**

iv. Borrowed capital **(1 mark)**

13. State **four** ways through which the government may create an enabling environment. **4 marks)**

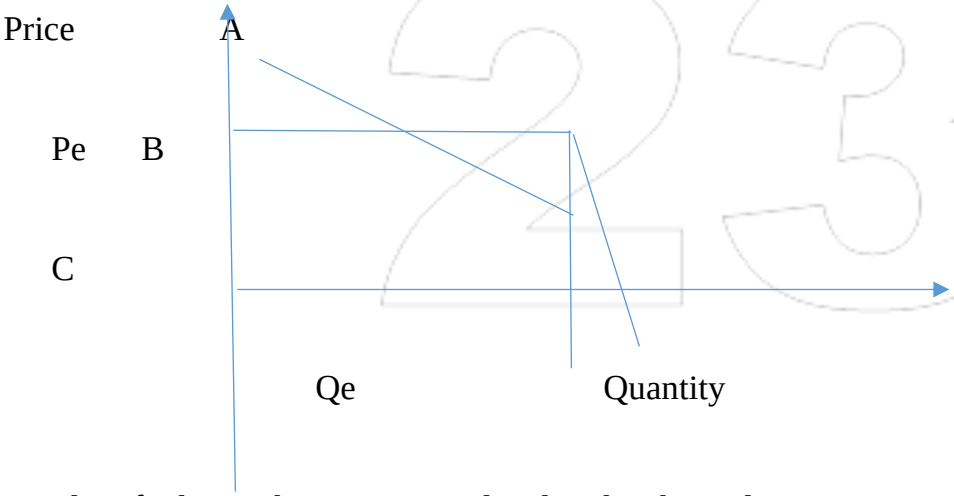
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14. The following diagram relates to a market structure



i. Identify the market structure related to the above diagram. **(1 mark)**

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ii. State **three** features of the above market structure. **(3 marks)**

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15. In each of the following situations, state whether the demand or supply would normally **increase, decrease or remain constant**. **(4 marks)**

i. If consumers expect the price of a commodity to decrease in the near future, the demand would

……

ii. If the price of mutton increases, the demand for beef is likely to

……

iii. If the demand for milk rises, the supply for vehicles is likely to

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iv. If the demand for vehicles reduces, the supply of fuel is likely to

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16. Outline **four** consequences of poor filing in an organisation. **(4 marks)**

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17. Outline **four** contents of a business plan. **(4 marks)**

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18. State **four** reasons that may lead to the termination of an insurance policy. **(4 marks)**

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19. Complete the table given below **(4 marks)**

	Owner's Equity (sh)	Long term liabilities (sh)	Short term liabilities (sh)	Fixed assets (sh)	Current assets (sh)
i.	**A**	759,510	265,700	812,000	652,900
ii.	675,800	966,700	458,000	**B**	526,900
iii.	826,000	1,065,300	**C**	2,346,400	612,700
iv.	391,700	952,650	321,000	1,275,000	**D**

i.A ……...

ii.B ……

iii.C ……

iv.D ……

20. Outline **four** characteristics of a bonded warehouse. **(4 marks)**

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21. As money continued to develop, precious metals, gold and copper gained more acceptances for use as form of money than other commodities. Give **four** reasons for this. **(4 marks)**

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22. Name the account to be debited and the one to be credited in each of the following transactions.

(4 marks)

Transaction	A/c to be debited	A/c to be credited
i. Proprietor withdrew cash from bank for personal use		
ii. Sold goods and payment was to be received later		
iii. Paid a creditor by cheque		
iv. Proprietor bought in cash from personal savings		

23. The following information was extracted from the books of Omollo stores during the year ended 31st August 2021.

	Sh.
Capital as at 31st August 2021	920,000
Capital as at 1st September 2020	540,000
Monthly drawings	17,500
Net profit for the year	17,000

Determine the additional capital during the year. **(4 marks)**

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24. Name **four** types of intermediaries in a chain of distribution. **(4 marks)**

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25. Record the following transactions in the appropriate diary for the month of June 2021.

June 2021

1st Bought furniture on credit from Wahu Traders worth sh, 25,000

2nd Exchanged a Motor van whose book value is sh. 240,000 for a machine valued at sh.280, 000

3rd Sold Furniture valued at Sh. 15,000 on credit to Erick for sh. 13,400

(4 marks)

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KCSE 2023 PREDICTION

POSSIBLE SERIES 1 EXAM

BUSINESS STUDIES

565/2

PAPER 2

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

a) *Write your name and stream in the space provided above.*
b) *This paper consists of six questions*
c) *Answer any **five** questions of your choice in the spaces provided.*
d) *All questions carry equal marks*
e) *Students should answer the questions in English.*

For Examiner's Use Only

Question	Maximum Score	Candidate's Score
1	20	
2	20	
3	20	
4	20	
5	20	
6	20	
Total		

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*Answer any **five** questions*

1. a) Explain five problems encountered in using national income statistics in comparing the standards of living in different countries. **(10 marks)**

b) Explain five benefits that could be enjoyed by a person who decides to take out an endowment policy. **(10 marks)**

2. a) Explain five benefits that may accrue to a community involved in home trade. **(10 marks)**

b) Explain five reasons why inflation in an economy may not be desirable. **(10 marks)**

3. a) Explain five ways in which division of labour can increase efficiency in the production process. **(10 marks)**

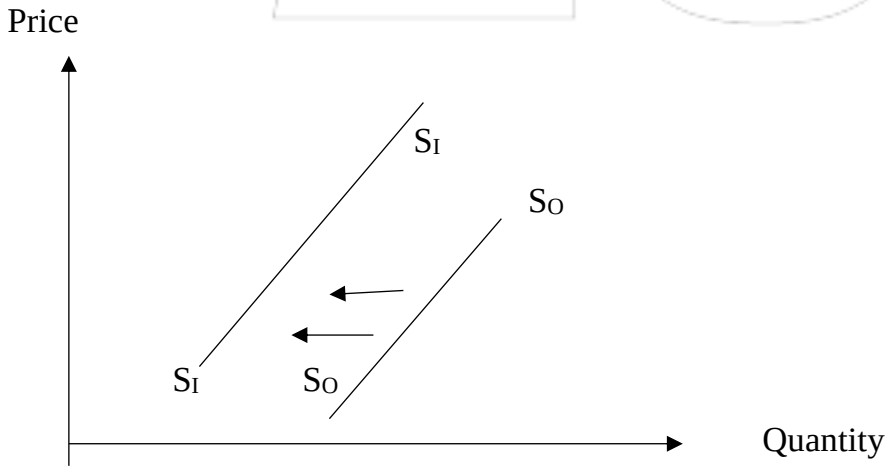
b) The following transactions belongs to Yala traders for the month of August 2022.

August 1st – Started business with Shs. 45,000 in the bank.
August 3rd – Bought stock on credit Shs. 15,000 from Nusra.
August 4th – Bought Furniture Shs. 5,000 by cheque.
August 6th – Withdraw Shs.15,000 from bank and put it in business cash till.
August 8th – Paid Shs. 5,000 for goods bought on credit from Nusra.
August 9th – Sold stock on credit Shs.9,000 to Nyando traders.

Required:

Record these transactions in relevant ledger accounts and balance them off. **(10 marks)**

4. a) The following diagram shows a shift in the supply curve. Explain briefly five factors that would cause such a shift. **(10 marks)**



b) Explain five factors that have led to privatization of public corporations by the government of Kenya. **(10 marks)**

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5. a) Explain five characteristics of perfect competition market structure. **(10 marks)**

b) The following information was extracted from the books of Sunshine traders on 31st December2021.

	Shs.
Gross profit	**800,000**
General expenses	**180,000**
Building	**1,250,000**
Equipment	**380,000**
Capital	**1,400,000**
Furniture	**117,000**
Insurance	**48,000**
Stock	**25,000**
Commission income	**125,800**
Discount allowed	**55,000**
Discount received	**56,200**
Bank overdraft	**79,000**
Salaries and wages	**320,000**
Creditors	**90,000**
Carriage outwards	**60,000**
Debtors	**65,500**
Carriage inwards	**34,500**
Cash	**51,000**

Prepare:

i) Profit and loss account for the period ended 31st Dec 2021. **(5 marks)**

ii) Balance sheet as at 31st Dec 2021. **(5 marks)**

6. a) Explain five circumstances under which a country may restrict international trade.

(10 marks)

b) An international company is planning to launch its product I the local market. Highlight five factors that should be considered by the company when choosing the appropriate media through which to advertise the product. **(10 marks)**

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KCSE 2023 PREDICTION

POSSIBLE SERIES 1 EXAM

ENGLISH

101/1

PAPER 1

(Functional Skills)

TIME: 2 HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

(a) *Write your name, admission number and class in the spaces provided above.*

(b) *This paper has* ***three*** *sections:* ***1, 2*** *and* ***3.***

(c) *Answer* ***ALL*** *questions in this paper.*

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Question	Maximum Score	Candidate's Score
1	20	
2	10	
3	30	
Total	60	

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Q1. FUNCTIONAL WRITING **(20 Marks)**

You are the secretary of Debating Club in your school, recently the club held a meeting and the following issues were discussed;

- Election of officials
- Income generating activities in the club
- Preparation for the great debate.

In the meeting, 8 members were present, 3 including the vice chairperson sent apologies and the whereabouts of 2 members were unknown. The club patron also attended the meeting. Apart from the main issues, members raised some issues from the previous meeting.

Write down the minutes of the meeting.

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Q2. CLOZE TEST

Fill in each of the blank spaces in the following passage with the most appropriate word. (10 marks)

From the modest achievement of overcoming Maths and Science anxiety, some students at St. Monica's Mago Mixed Sec School **(1)……..…** Siaya County have launched a thriving water bottling business and are now looking **(2)…….……** to raking millions from the venture.

(3)…….…… plant, operated strictly by students currently produces 3,600 half litre bottles **(4)……..…** month. They plan to expand its capacity to tap **(5)…….……** the commercial market.

As the (**6)……..**awaits certification by the Kenya Bureau of **(7)……**

(KEBS), the (**8)…….** water is internally sold to members of staff, administration and the **(9)…….……** than 2,400 students at the school.

The water is sourced from the nearby River Yala **(10)……..……** undergoing a series of purification processes, after which it is released for consumption.

Q3. ORAL SKILLS **(30MARKS)**

a. Read the following narrative and then answer the questions that follow. (8marks)

Once upon a time, there lived a man called Osuji. At one time it happened that two of the neighbouring villages were each going to eat an elder's cow. Since Osuji because of his central position was acceptable in both villages, he decided that he would have a share of both cows. On the day appointed, Osuji woke up very early picked up his shoulder trap, fly whisk and three legged stool and made off to the first village. There he found the elders tying the cow ready to kill and helped them to tie it. He then excused himself and went on to the next village. Here he found that the cow had already been killed and that they were busy skinning it. He started talking to the elders, but his conscience told him that the other cow would be ready for sharing shortly. So he excused himself and ran back there. To his surprise and disappointment, he met people carrying their pieces of meat and he was told that nothing had been saved for him. On hearing this unpleasant news, he doubled back to the other village, hoping against hope. But as fate and luck would have it, he just arrived on the scene to see the last man disappear with his red chunk of meat round the corner.

To this day, we have a saying in Luo, 'You will be lost in the middle like Osuji.'

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Questions

i). How would the narrator capture the audience's attention at the beginning of this story? **(2 marks)**

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ii). Illustrate any two non-verbal cues that you would use to render this story interesting. **(2 marks)**

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iii). How would you tell that your audience is fully involved in the performance of this story?

(2 marks)

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iv). State how you would say last paragraph of this narrative to effectively pass the **message** intended. **(2marks)**

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b) For each of the following words, provide another that is pronounced the same way. (5 marks)

i) Sealing ……

ii) Wait ……

iii) Climb ……..

iv) You…….

v) Air …….

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c) Identify the odd one out in each of the following sets of words **(5marks)**

i) Respect, resist, religion, referee …….

ii) Resign, resolve, advise, waste…….

iii) Usual, visual, pleasure, passion……

iv) Chef, chin, chic, chauffer…….

v) Theme, though, that, thy……...

d) The underlining indicates the stressed word in the sentences below. Briefly explain what each sentence means. **(3 marks)**

i) Mike rode the bus to school.

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ii) Mike rode the bus to school.

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iii) Mike rode the bus to school.

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e). Two friends Amollo and Akech have a debate. Amollo strongly feels that it's better to put up business rather than be in formal employment. Akech on the other hand, argues that it's better to be in formal employment than being in business. Advise them on five things they should do in order to disagree in an agreeable manner so that their conversation does not degenerate into a quarrel. **(5marks)**

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f) Read the following dialogue and then answer the questions that follow.

Supervisor: Cynthia why have you done this letter so badly?

Cynthia : I am sorry, the computer…

Supervisor: Stop giving excuses about the computer. You better get serious! It is so unprofessional, what did you learn in school?

Cynthia: Sir, it is just that the computer broke down and by the time it was repaired, it was too late to do anything. So I typed the letter in a hurry.

Supervisor: Do you value your work? Were you ever trained or how did you get the job

Cynthia: Sir, I am sorry, let me write another one.

Supervisor: You should have thought about that before doing such a shoddy job!

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i. Give two reasons why the supervisor's approach to problem solving is wrong. **(2marks)**

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ii. What does Cynthia do in order to resolve the conflict? **(2marks)**

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KCSE 2023 PREDICTION

POSSIBLE SERIES 1 EXAM

ENGLISH

101/2

PAPER 2

(Comprehension, Grammar and Literary Appreciation)

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

a) Write your name, class, admission number and school in the spaces provided

*b) Answer **all** questions in this question paper.*

c) Candidates MUST answer all the questions in English.

FOR EXAMINER'S USE ONLY

Question	Maximum Score	Candidate's Score
1	20	
2	25	
3	20	
4	15	
Total Sore	**80**	

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1. Read the following passage and answer the questions that follow. (20 marks)

The prevailing high cost of living crisis is ruining people's mental health status, rendering lives at risk. Many families are finding it difficult to cope with their situation due to poverty as low-income families fall deep into debt they cannot afford to repay. Some people end up committing suicide in a bid to get a solution to it. The number of suicide cases among the youth had been rising rapidly in recent years. Society is, therefore, losing important people who would have transformed our economy because of their great minds and energetic nature in youthful age. Suicide continues to be a major challenge globally; it should be declared an international crisis. According to World Health Organization, more than700, 000 people die of suicide every year. And more attempt suicide, with the cases rarely reported.

The WHO reports that some 77 per cent of suicides occur in low- and middle-income countries, a category in which Kenya falls. The Covid-19 pandemic acted as a **catalyst** to suicide. The government measures that were meant to curb the spread of the coronavirus interfered with the global economy as more funds were invested into fighting the pandemic. Lockdowns and movement restrictions hindered socioeconomic duties, rendering many people jobless. The ongoing Russian invasion of Ukraine increased the suffering due to the increasing cost of living. Many families sleep hungry, unable to afford food and other essentials. The children have a stressful home environment as such families lack access to vital infrastructure—like schools and hospital—and life continues until the youth decide to kill themselves so that they can 'rest' and stop the suffering.

Indeed, young people are taking their lives for things that we are able to fix. Is it so difficult for the government to strategize on eradicating poverty and reducing the cost of living, which cause almost every suicide? Yes, there are other factors that may lead to suicide, such as break-ups in romantic relationships and chronic diseases, but let's first deal with the major one: Poverty and high cost of living.

Young people go through the education system with huge expectations of being successful in life. Bear in mind the universal advice that education is the key; that it is the requirement to avoid poverty and lead a good life. But what is happening is contrary to their expectations and some have, sadly, resolved to die. The high cost of living, which is increasing at a rate that we had not experienced in decades, is pushing millions of youth to chilling depths of poverty, despair and destruction, which greatly interferes with their mental health. Many Kenyans are squeezed into a corner and can no longer make ends meet.

If the suicide rate is to be diminished, the authorities must take the crucial and effective steps to fight poverty and lower the cost of living. I call upon the incoming administration to develop and implement a safety net strategy as the basis for building strong financial and political support for

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a poverty reduction agenda. A safety net based on careful analysis of the needs of Kenyans should be introduced to ensure that regular support is rendered to the people in **chronic** abject poverty and also provide assistance to vulnerable households. I assure the country that if we fix the issues around poverty and the high cost of living, we will be able to save the beautiful souls of young people perishing in the dark void of death by suicide.

(Adapted by **Mwalimu Consultancy** 0746-222-000 from *The Daily Nation September 05, 2022: Letters to the Editor*-Youth Suicides due to High Cost of Living)

i) According to the first paragraph, how is poverty linked to suicidal deaths? **(2 marks)**

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ii) Explain the importance of the use of figures in the passage. **(2 marks)**

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iii) Why do you think the word 'rest 'has been quoted? **(2 marks)**

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iv) Identify some of the causes of suicide among the youth. **(2 marks)**

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v) Make notes on the effects of high cost of living. **(4 marks)**

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vi) And more attempt suicide, with the cases rarely reported. *(Rewrite supplying the correct question tag)* **(1 mark)**

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vii) What should the government do to reduce the suicide rate? **(2 marks)**

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viii) Describe the author's tone in the last paragraph. **(3 marks)**

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ix) Contextualize the meaning of the following words. **(2 marks)**

i) Catalyst……

ii) Chronic……

2. <u>Read the excerpt below and answer the questions that follow.</u> **(25 marks)**

Mrs. Linde: (Smiles sadly and strokes her hair). It sometimes happens, Nora.

Nora: So you are quite alone. How dreadfully sad that must be. I have three lovely children. You can't see them just now, for they are out with their nurse. But now you must tell me all about it.

Mrs. Linde: No, no; I want to hear about you.

Nora: No, you must begin. I mustn't be selfish today; today I must only think of your affairs. But there is one thing I must tell you. Do you know we have just had a great piece of good luck?

Mrs. Linde: No, what is it?

Nora: Just fancy, my husband has been made manager of the Bank!

Mrs. Linde: Your husband? What good luck!

Nora: Yes, tremendous! A barrister's profession is such an uncertain thing, especially if he won't undertake unsavory cases; and naturally Torvald has never been willing to do that, and I quite agree with him. You may imagine how pleased we are! He is to take up his work in the Bank at

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the New Year, and then he will have a big salary and lots of commissions. For the future we can live quite differently —we can do just as we like. I feel so relieved and so happy, Christine! It will be splendid to have heaps of money and not need to have any anxiety, won't it?

Mrs. Linde: Yes, anyhow I think it would be delightful to have what one needs.

Nora: No, not only what one needs, but heaps and heaps of money.

Mrs. Linde: (smiling) Nora, Nora, haven't you learned sense yet? In our schooldays you were a great spendthrift. (Laughing) Yes, that is what Torvald says now. (Wags

Nora: her finger at her.) But 'Nora, Nora' is not so silly as you think. We have not been in a position for me to waste money. We have both had to work.

Mrs. Linde: You too?

Nora: Yes; odds and ends, needlework, crotchet-work, embroidery, and that kind of thing. (dropping her voice) And other things as well. You know Torvald left his office when we were married. There was not prospect of promotion there' and he had to try and earn more than before. But during the first year he worked early and late; but he couldn't stand it, and fell dreadfully ill, and the doctors said it was necessary for him to go south.

Mrs. Linde: You spent a whole year in Italy, didn't you?

QUESTIONS

a) Place the excerpt in its immediate context. **5mks**

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b) Identify three styles that are used in the excerpt. State their effectiveness. **6mks**

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c) But 'Norah, Nora' is not so silly as you think. What proves that Nora has not been as silly as she was thought to be by many. **4mks**

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d) What theme is brought out in the excerpt? **3mks**

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e) What character traits of Nora and Mrs Linde are brought out in the excerpt? **4mks**

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f) So, you are quite alone. (Add a question tag). **I mk**

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g) What is the meaning of the following words as used in the excerpt? **2mks**

• Barrister—

Spendthrift —

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3. Read the following oral poem and answer the questions that follow. (20 marks)

It is Well!

He is coming back to us after many years away.
We released him to you young, vibrant and eloquent.

But you've brought him back,
To the cradle, this great son of the soil
A "mganga" with a heavy tongue,
Vanguished, punctured, empty-handed
With eyes continually dripping
Could he be saddened by our predicament
Or are they tears of regret?

We gave him out as the best we could find,
One who had we known, we'd have kept around here
to look after our affairs.

He was a good Son, blessed of the clan,
That Son you people mocked, is a good Son!

But see who you have brought us back!

Well, he is ours and we'll build him a house by the shore!
By Odhiambo Kaumah (Edited)

QUESTIONS

i) Who could be the 'We' in the poem? Explain. **(2 marks)**

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……

……

ii) Mention any two changes highlighted in the poem. **(2 marks)**

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iii) Illustrate the use of any **two** poetic devices which qualify this as an oral poem**.** **(4 marks)**

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iv) Explain the subject matter of the poem. **(3 marks)**

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v) What is the effect of the line: *'But see who you have brought us back!'*? **(2 marks)**

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vi) Explain the persona's attitude towards the 'good Son' **(3 marks)**

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vii) Why do you think the word 'Son' begins with a capital letter? **(2 marks)**

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viii) Explain the meaning of the following expressions as used in the poem. **(2 marks)**

i. Heavy tongue

……

ii. Empty-handed

……

4. ***a) Rewrite the following sentences as instructed. Do not change the meaning.(4 marks)***

i) You can do better than this. (Begin: This……)

……

ii) It was the first time the school performed well. (Begin: Never before .....)

……

iii) Neither the children nor the peasant…….allowed beyond the gate. (Rewrite filling in the blank with correct form of the verb 'be')

……

iv) Jodelle's handwriting is the best in this class. (Rewrite using 'better')

……

a) Replace the underlined phrasal verbs with one word with the same meaning.(2 marks)

i) Jake, <u>see to it</u> that all the chairs are in good condition.

……

ii) The plane <u>touched down</u> at 7.00 O'clock.

……

b) Complete the following sentences using the appropriate form of the words in brackets. (3 marks)

i) She took a …… (compassion) leave after the death of his brother.

ii) The …… (certain) of the petition outcome has made him very nervous.

iii) No youthful candidate won the ……(governor) seat in the just concluded elections.

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c) Rewrite the following sentences correctly. ***(2 marks)***

i) My brother and me have been taking Piano lessons for six years.

……

ii) If I revise well for examinations, I would score grade A.

……

d) Rewrite the sentences using the correct order of adjectives in brackets. ***(2 marks)***

i) Gimariah is a…….(Kenyan, basketball, brilliant, short) player.

……

ii) She bought a …….(new, lovely) dress.

……

e) Explain the difference in meaning between the following pair of sentences. ***(2 marks)***

i) Peter was executed like a murderer.

ii) Peter was executed as a murderer.

……

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……

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KCSE 2023 PREDICTION

POSSIBLE SERIES 1 EXAM

ENGLISH

101/3

PAPER 3

(Creative Compositions & Essays Based on Set Texts)

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

Instructions to candidates

(a) *Write your name, index number and name of your school in the spaces provided above.*
(b) *Sign and write the date of examination in the spaces provided above.*
(c) *Answer **three** questions only.*
(d) *Question **1** and **2** are **compulsory**.*
(e) *In question **3** choose only **one** of the optional set texts you have prepared on.*
(f) *Where a candidate presents more than **one** optional set text, only the first one to appear will be marked.*
(g) *Each of your essays must **not** exceed **450** words.*
(h) *All your answers must be written in the spaces provided.*

For Examiner's Use Only

Section	Maximum Score	Candidate's Score
1	20	
2	20	
3	20	
Total	60	

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*Answer **three** questions only*

1. Imaginative composition. (Compulsory) **(20 marks)**

Either

(a) Write a composition ending with the following statement.

…I later realized that the whole experience had been a life lesson to me.

Or

(b) Write a composition discussing the negative effects of examination malpractice.

2. Compulsory Set Text **(20 marks)**

Blossoms of the Savannah by Henry Ole Kulet.

Some aspects of Nasilian tradition should be embraced. Write an essay in support of this statement with clear illustrations from Henry Ole Kulet's *Blossoms of the Savannah*.

3. Optional set text **(20 marks)**

*Answer **one** of the following three questions.*

Either

a) The Short story:

Godwin Siundu, *A Silent Song and Other Stories*

The desire to amass wealth at the expense of others causes suffering. Validate this assertion by referring closely to Chimamanda Adichie's story, *Ghosts*.

Or

b) Drama

David Mulwa, *Inheritance*

What goes around comes around. Drawing illustrations from the play *Inheritance* by David Mulwa, write an essay to justify this statement.

Or

c) The Novel

Kazuo Ishiguro, *An Artist of the Floating World*

War results in devastating consequences. Justify this statement by referring to the events in Kazuo Ishiguro's novel, *An Artist of the Floating World.*

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UTABIRI WA KCSE 2023

MFUATANO WA 1

102/1

KISWAHILI

KARATASI YA 1

INSHA

MUDA: SAA 1¾

JINA……

SHULE…… **SAHIHI**……

NAMBARI YA USAJILI…… **MKONDO**……

Cheti cha Kuhitimu Kisomo cha Sekondari (KCSE)

MAAGIZO

*a) Andika insha **mbil**i. Insha ya kwanza ni ya **lazima.***
b) Kisha chagua insha nyingine moja kati ya hizo tatu zilizobakia.
*c) Kila insha isipungue maneno **400.***
*d) Kila insha ni alama **20.***
e) Kila insha lazima iandikwe kwa lugha ya Kiswahili.

KWA MATUMIZI YA MTAHINI PEKEE

Swali	Upeo	Alama
1	20	
	20	
Jumla	40	

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1. **Lazima**

Umeteuliwa kama mwenyekiti wa tume inayoshughulikia mambo yanayochangia visa vya wanajamii kuwa na msongo wa mawazo. Umewaalika wanatume wengine wawili ili kujadili chanzo cha swala hili. Andika mazungumzo baina yenu.

2. Jadili namna mshikamano baina ya walimu na wanafunzi shuleni unavyoweza kuboreshwa.

3. Andika kisa kinachounga mkono methali;

Asiyesikia la mkuu, huvunjika guu.

4. Tunga kisa kitakachoanza kwa maneno haya;

Sauti za watu, wengine wakinishangilia na wengine wakinikashifu, zilichanganyika hewani na kuwa kelele zisizoeleweka**…**

KCSE 23

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UTABIRI WA KCSE 2023

MFUATANO WA 1

102/2

KISWAHILI

KARATASI YA 2

LUGHA

MUDA: SAA 2½

JINA……

SHULE…… SAHIHI……

NAMBARI YA USAJILI…… MKONDO……

Cheti cha Kuhitimu Kisomo cha Sekondari (KCSE)

Maagizo

a) *Andika jina lako na nambari yako ya mtihani katika nafasi ulizoachiwa hapo juu.*
b) *Andika mkondo wa kidato chako ,tarehe kisha utie sahihi yako katika nafasi ulizoachiwa*
c) *Jibu maswali **yote.***
d) *Majibu yote **lazima** yaandikwe kwa lugha ya Kiswahili.*
e) *Majibu yote **sharti** yaandikwe kwenye nafasi ulizoachiwa katika kijitabu hiki cha maswali.*
f) *Usitoe ukurasa wowote katika kijitabu hiki,*

KWA MATUMIZI YA MTAHINI PEKEE

Swali	Upeo	Alama
1	15	
2	15	
3	40	
4	10	
Jumla	80	

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1. UFAHAMU: (Alama 15)

Soma taarifa ifuatayo kisha ujibu maswali.

Ulikuwa wakati wa jioni jua limepunguza udhia wake na upepo mwanana ulikuwa ukipita na kuzipapasa Ngozi zetu mfano wa pamba. Kama ilivyokuwa desturi yetu pale chuoni, siku hiyo tuliketi karibu na lango kuu la chuo ili kutafiti kazi mradi tuliyokuwa tumepewa darasani. Sehemu hii tuliipenda sana kwa kuwa kuuchakura mtandao ilikuwa ni bure bora tu ufahamu nywila ya mtandao huo. Mandhari ya sehemu hii pia yaliwavutia wanafuzi wengi katika sehemu hii.

Tulipotia fahamu, tulipata mazoea haya yamekita mizizi nasi tukawa hatuna budi kuyakumbatia. Hatukuyakumbatia tu, bali tuliyakumbatia kwa dhati ya moyo. Vikao hivi havikuwa tu hazina kubwa kwetu bali pia vilikuwa vya thamani isiyomithilika. Hapa ndipo tulinoleana bongo kwa kupashana habari. Leo hii tumo katika mjadala kuhusu kuhusu mfumo mpya wa elimu CBC tuliopewa darasani kama kazi mradi. Nahodha wa kikundi hiki anampa msemaji wa kwanza nafasi naye hakusita kushika usukani.

"Nionavyo mimi, mfumo wa CBC unafaa kufutiliwa mbali. Serikali haijajiandaa vilivyo ili kuufanikisha mfumo huu wa elimu. Kwanza, mafunzo waliyopewa walimu ili kuufanikisha mfumo huu kamwe hayatoshi. Nionavyo mimi ni kwamba walimu waliopo ambao idadi yao haitoshi, wanatumia elimu ya mfumo wa 8-4-4 kuufunza ule wa CBC. Itawezekanaje mwalimu apate mafunzo ya wiki moja kisha akawa amefuzu kumwelekeza mwanafunzi? Isitoshe mfumo huu unamhitaji sana mwalimu kutumia teknolojia ya kisasa katika ufunzaji. Usishangae nikikwambia kuwa walimu wengi hawana mafunzo ya kisasa ya kompyuta. Zaidi ya hayo shule nyingi vilevile hazina tarakilishi. Baadhi yazo pia umeme haupo. Baada ya serikali ya uhuru kuahidi kuwapa Watoto vipakatalishi, je jiulize, ni wanafunzi wangapi hivi sasa ambao walipata vipakatalishi hivyo? Kando na hayo, wazazi wengi washalalamika kuhusu gharama kubwa ya vifaa ambavyo walimu huwatuma wanafunzi kuvileta shuleni. Huenda ikawa sababu ya wao kusema kuwa ni heri mfumo huo wa CBC ukaachiwa shule za kibinafsi.

Muda huo wote kila mtu pale tulipoketi alikuwa ametulia. Wapo waliotikisa vichwa kukubaliana naye Sumaku na wapo waliotikisa kukataa. Mara kijana mmoja tuliyemwita Sudi alisimama na kuzungumza. mawazo yake sudi ni kama yalikuwa ya kumpinga sumaku.

"Mtazamo wangu mimi ni kuwa mfumo wa CBC haufai kufutiliwa mbali. Itakuwa hasara kubwa kwa washika dau mbali mbali ambao wameekeza katika mfumo huu. Ikumbukwe kwamba imeigharimu serikali ya Uhuru pesa nyingi katika kujenga madarasa, kuwafunza walimu pamoja kuchapisha vitabu vya mfumo huu. Isitoshe kuutupilia mbali mfumo huu itakuwa sawa nakuwapotezea muda wanafunzi wa darasa la sita ambao kwa miaka sita wamekuwa wakisoma mfumo huu"

"Nakuunga mkono sumaku, alianza Dida. Kwanza sudi awazie tena udhaifu wa mfumo 8-4-4 ndipo awazie hayo. Kila mwanafunzi katika mfumo huu wa CBC ni mshindi. Hakuna kuwagawa wanafunzi katika makundi ya wajinga na werevu. Isitoshe, katika mtaala huu mpya, hakuna kurudia rudia madarasa kama ilivyo katika mfumo huo wa awali. Vile vile, mtaala wa CBC utawapa wanafunzi wa Kenya matumaini na fursa ya kuimarisha vipawa na uwezo wao. Ikumbukwe kwamba mtaala huu unasisitiza ukuzaji wa talanta za wanafunzi nchini tofauti na ule

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wa 8-4-4. Pia, CBC humfunza mwanafunzi masomo ambayo tu yatamfaa maishani mwake. Lugha asili za wanafunzi pia zitakuzwa katika mfumo huu mpya. Hivyo basi serikali yake Ruto na Riggy G haina budi kuufanikisha mtaala huu.

Maneno yake Dida yalifunikwa ghafla na kelele za kumshangilia na kumsifu kijana huyu. Alipoona bado wanashangilia, aliinua mkono wake wa kushoto juu na kusema, "Basi ! basi wanafunzi wenzangu, sina shaka ujumbe umeshafika.

a) Ni mambo yepi yanayoleta utangamano baina ya vijana katika kundi hili chuoni**?(alama 3)**

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b) Eleza udhaifu wa mfumo wa 8-4-4 kulingana na kifungu hiki. **(alama 5)**

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c) Jadili manufaa ya mfumo mpya wa elimu kulingana na Makala haya**.** **(alama 5)**

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d) Kauli "upepo mwanana ulikuwa ukipita na kuzipapasa Ngozi zetu, " imetumia tamathali gani ya usemi? **(alama 1)**

……

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e) Eleza maana ya "tulinoleana bongo" kwa mujibu wa taarifa**.** **(alama 1)**

……

2. UFUPISHO (Alama 15)

Soma kifungu kifuatacho kisha ujibu maswali yafuatayo.

Bei ghali ya vyakula ni jambo linalowaathiri wakenya wengi kwa hivi sasa. Inasikitisha kupata kwamba bei ya unga wa ugali imepanda hadi sh. 200. Ni wazi kwamba familia nyingi nchini hukosa lishe lao kutokana na kufumka kwa bei ya bidhaa muhimu. Hata hivyo ibainike kwamba nchi isiyowakimu raia wake kwa chakula ni sawa ng"ombe aliyeshindwa kumnyonyesha ndama wake.

Kwa muda mrefu, viongozi wamekuwa wakipambana na tatizo la ukosefu wa chakula. Msimu wa kiangazi unapobisha hodi, watu wengi hasa wale wahitaji hupukutika kutokana na mngato wa njaa. Japo serikali na wafadhili hutuma vyakula vya msaada kwa jamii zilizoathirika, chakula hiki huwa kama nguo ya kuazima, na bila shaka ya kuazima haikidhi haja.

Mojawapo ya vyanzo vikuu vya uhaba wa chakula ni kiwango cha chini cha uzalishaji na uhifadhi wa chakula chenyewe. Zipo seheu nyingi ambazo ni kame nchini.sehemu hizi hukabiliwa na ukosefu wa maji kwani, ama mvua hainyeshi au inaponyesha haitoshelezi mahitaji ya mimea. Mimea mingi hujikaukia ikiwa michanga na kudhihaki juhudi za wapanzi. Zipo sehemu katika nchi hii ambazo huenda kwa misimu hata mitano bila kupata zao lolote kutoka mashambani. Hali ikiwa hivi makali ya uhitaji huzidi na wakazi wa sehemu hizi hulazimika kuwa wategemezi kwa majirani na serikali. Wengine wanapokosa chakula kabisa huazimia kula visivyoliwa. Wanaamwa la mbwa baada ya kukosa la mama.

Hali kadhalika japo zipo sehemu zingine ambazo hazina tatizo la ukame, mbinu hasi za kilimo husababisha utoaji wa mavuno haba, hivyo kutojitosheleza kwa chakula. Bilas haka wanapopanda ovyo wanavuna ovyo. Kuna wakulima ambao hupalilia mmomonyoka wa udongo kwa kulima kando kando ya mito, kupanda zao lile lile katika sehemu ile ile ya ardhi miaka nenda miaka rudi, na kutopanda mimea ambayo hukinga tabaka la juu la udongo dhidi ya kumomonyolewa na maji au upepo. Matokeo ya haya yanaweza kutabiriwa; udongo wenye rutuba huoshwa na mashamba kutwaa utasa ambao huzidisha kuzalisha kwa chakula haba. Wakulima wengine hukaidi wito wa kupanda mimea ambayo hustahimili ukame kama vile mbaazi mihogo, mtama na wimbi. Baadhi ya wakulima hufuga mifugo wengi ambao hushindwa kustahimili kiangazi. Si ajabu kupata kwamba katika baadhi ya maeneo mizoga ya ngombe na hata ngamia imezagaa kote tanuri la kiangazi linapofanya kazi yake.

Sehemu zingine zimebarikiwa na ukwasi wa chakula. Hata hivyo baadhi ya wakazi wa sehemu hizi hawana mwao kuhusu umuhimu wa lishe bora. Wapo wanaodhani kuwa chakula ni chakula bora tumbo lipate haki. Hawa hula vyakula kama vile viazi, mahindi, na wengine nyama bila kujua wanahiyaji vyakula vyenye virutubisho muhimu, yani wanga, protini , vitamini na madini. Wapo wanaodhani kuwa protini pekee ni nyama. Hawa hula nyama mawio na machweo, matokeo yakiwa kuambulia magonjwa kama vile shinikizo la damu.

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Katika kukabiliana na tatizo la uhaba wa chakula, serikali kupitia wizara husika imeanzisha miradi ya kuhakikisha kuwa kuna uzalishaji wa chakula kwa kiwango cha kuridhisha. Serikali ya Ruto sasa imepunguza bei ya mbolea hadi sh 3500 ili kuwawezesha wakulima kupanda chakula kwa wingi. Visima na mabwawa ya maji pia vitachimbwa katika maeneo kame ili kunyunyuzia mashamba maji. Baadhi ya wakulima wameanza kupanda mimea ambayo inapevuka na kutoa mazao kwa haraka ipo mimea ya kuatika ambayo hutoa matunda baada ya muda mfupi, hivyo kusaidia kupunguza makali ya njaa. Wafugaji wengine wameanzisha miradi ya kufuga kuku wa kututumuliwa. Hawa hukuwa na kukomaa kwa muda mfupi na huweza kutoa nyama na mayai. Wafugaji wa kuku hawa huweza kuwauza kununua aina nyingine ya chakula.

Wakulima pia wanahimizwa kutumia njia za kisasa za kuzalisha na kuhifadhi chakula.chakula kinapohifadhiwa vyema, hata mvua isiponyesha raia huweza kujitegemea. Ikiwa maghala ya halmashauri za kuhifadhi chakula nchini hayahifadhi chakula mara nyingi hulazimika kuagiza chakula kutoka nje kiangazi kinapojiri. Aidha chakula kisipohifadhiwa vyemahuishia kuharibika na kuhasiri wanaokila ikawa msiba juu ya mwingine.

Ni muhimu kufahamu kuwajukumu la kupambana na ukosefu wa chakula ni la kila raia. Hali ya kungojea kila mara kulishwa na serikali inatufanya kuwa wategemezi Zaidi. Wadogo wadogo ambao huuza vyakula kwa bei ya chini sana mara tu wanapovitoa mashambani wanapaswa kujiasa dhidi ya mazoea haya na kujua kuwa akiba haiozi. Wanaoishi katika sehemu za vinamasi wasaidiwe kuzitunza sehemu hizi na kuzitumia kwa njia endelevu. Vijana wahimizwe wawaunge wazee mkono kushughulikia kilimo katika sehemu za mashambani badala ya kuhamia mijini kutafuta kazi za ajira ambazo ni haba.

a) Fupisha ujumbe wa aya tano za kwanza kwa maneno 100. (alama 9, 1 ya mtiririko)

Matayarisho

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Jibu

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b) Kwa kurejelea aya tatu za mwisho, eleza njia sita za kukabiliana na uhaba wa chakula. (maneno 85) **(alama 6, 1 ya mtiririko)**

Matayarisho

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Jibu

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3. MATUMIZI YA LUGHA (Alama 40)

a) Kamilisha jedwali lifuatalo kwa kuandika sauti zifaazo. **(alama 3)**

AINA	midomo	meno	ufizi	Mdomo na meno	Kaakaa gumu	Kaakaa laini	koromeo
Vipasuo						_____	
Vizuio kwamizwa					____		
vikwamizo			____				
Ving`ong`o	___						
kitambaza			____				
kimadende							
Nusu irabu					___		

b) Tofautisha sentensi zifuatazo kimaana. **(alama 2)**

i. Andai angelimnywesha babu uji kwa kikombe, babu angelishiba.

ii) Andai angalimnywesha babu uji kwa kikombe, babu angalishiba.

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……

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c) Ikanushe sentensi ifuatayo kwa wingi **(alama 2)**

Mwizi alimkata sikio na pua

……

……

d) Tunga sentensi moja itakayodhihirisha kielezi cha namna mfanano. **(alama 2)**

……

……

……

e) Ainisha mofimu katika kitenzi kilicho katika sentensi hii. **(alama 3)**

Wapenzi hao watanywiana sharubati.

……

……

……

……

f) (i) Nini maana ya kirai? **(alama 1)**

……

……

(ii) Tunga sentensi moja inayodhihirisha kirai kihusishi. **(alama 2)**

……

……

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g) Eleza tofauti za kimatumizi kati ya alama zifuatazo za uakifishaji**.** **(alama 2)**

i.Koloni ……..

ii) Nusu koloni …….

h) Andika upya sentensi zifuatazo kilingana na maagizo uliyopewa.

i. Mbuzi walipopotea, mchungaji alikuwa na wasiwasi. (Anza kwa, Kupotea.... **(alama 2)**

……

ii. Dereva aliyesababisha ajali alihukumiwa miaka minne na kazi ngumu.

(Maliza …aliyesababisha ajali. **(alama 2)**

……

……

i) Tunga sentensi itakayodhihirisha kielelezo kifuatacho cha mstari**.** **(alama 2)**

S-RN(N+V+V)+KT(T+E)

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j) Tunga sentensi moja itakayodhihirisha maana ya vitate rika na lika. **(alama 2)**

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k) Bainisha vitenzi katika sentensi hii. **(alama 3)**

Ndege yu taabani, hata hivyo anajaribu kujinasua.

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l) Onyesha shamirisho na chagizo katika sentensi ifuatayo. **(alama 2)**

Bi. Kerubo alirembeshwa nyusi kwa wanja mweusi.

……

……

m) Andika sentensi ifuatayo katika usemi wa taarifa**.** **(alama 2)**

"Shughuli yangu itamalizika leo," mama alimwambia baba.

……

n) Andika visawe vya; **(alama 2)**

i) Rai ……

ii) Azimio ……..……

o) Vumisha neno zuri kwa kulitungia sentensi. **(alama 2)**

……

……

p) Ainisha vihusishi katika sentensi ifuatayo**.** **(alama 2)**

Rais alifika mapema kuliko wengine halafu akaondoka.

……

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q) Tambua matumizi ya kiambishi -ji- katika sentensi **(alama 2)**

Jino la jitu hilo lililiwezesha kujilia chakula kingi.

……

……

……

r) Ikamilishe methali ifuatayo. **(alama 1)**

Cha mkufuu**……**

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s) Igeuze sentensi ifuatayo iwe katika mazoea**.** **(alama 1)**

Matunda yanayoiva ndiyo yanayotundwa.

……

4. ISIMU JAMII (Alama 10)

Tumia kauli ifuatayo kujibu maswali

Haya ng`ara leo, nguo moto moto. Fifty hamsa fifty hamsa fifty hamsa na nyingine. Shati shilingi hamsini tu. Kuona ni bure…

a) Kando na sifa zinazojitokeza katika Makala haya taja sifa zingine tano za sajili hii. **(alama 5)**

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b) Eleza juhudi tano zinazofanywa ili kukikuza Kiswahili nchini Kenya na dunia kwa jumla. **(ala** 5)

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HUU NDIO UKURASA WA MWISHO

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UTABIRI WA KCSE 2023

MFUATANO WA 1

102/3

KISWAHILI

KARATASI YA 3

FASIHI

MUDA: SAA 2½

JINA……

SHULE…… SAHIHI……

NAMBARI YA USAJILI…… MKONDO……

Cheti cha Kuhitimu Kisomo cha Sekondari (KCSE)

MAAGIZO:

a) *Jibu maswali manne pekee.*

b) *Swali la kwanza ni la lazima.*

c) *Maswali hayo mengine matatu yachaguliwe kutoka sehemu nne zilizobaki; yaani; Riwaya,Ushairi, Hadithi Fupi na Fasihi Simulizi.*

d) *Usijibu maswali mawili kutoka sehemu moja.*

e) *Majibu yote lazima yaandikwe kwa lugha ya Kiswahili*

KWA MATUMIZI YA MTAHINI PEKEE.

SWALI	UPEO	ALAMA
1	20	
	20	
	20	
	20	
Jumla	**80**	

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SEHEMU A: TAMTHILIA: *Bembea ya Maisha* - T. Arege (ALAMA 20)

1. "Siwezi kuendelea kuishi hivi. Sasa nimekata shauri. Pombe! Umenichezesha kama mwanasesere kwa muda mrefu. Umeninyima fursa ya kuielewa familia yangu. Hapana! … Lazima nimshukuru kwa vitendo kwa jinsi alivyojitolea kuijenga familia yetu…kwa heri pombe. Buriani."

a) Weka dondoo hili katika muktadha wake**.** **(alama 4)**

b) Eleza vipengele vinne vya kimtindo alivyotumia msemaji kufanikisha uwasilishaji wa ujumbe. **(alama. 4)**

c) Fafanua changamoto ya asasi ya ndoa kwa kuangazia ndoa zilizo katika tamthilia ya *Bembea ya Maisha*. **(alama 4)**

d)"... Wakati mwingine mwindaji huwa mwindwa. Hata kijijini wanaishi watu. Watu hao hawakumbwi na dhiki kiasi hiki. Ya nini kung'ang'ana kuyatafuta maisha kama kwamba hayapiti? Maisha ni mshumaa uso mkesha! Ukijiachia sana peupe hata upepo unaweza kuuzima kabla ya kulika hadi nchani."

Eleza umuhimu wa msemaji katika kuendeleza ploti ya tamthilia hii. **(alama 8)**

SEHEMU B: RIWAYA, - A Matei: Chozi la Heri

Jibu swali la 2 au la 3

2. Jadili ufaafu wa anwani ya riwaya ya *Chozi la Heri* **(alama 20)**

3. "…huenda tusikutane nikiwa hai ila nawausia kwa kauli moja tu, msiache ubinafsi na tamaa kuupweza ubinadamu wenu.

a) Weka dondoo hili katika muktadha wake. **(alama 4)**

b) Eleza jinsi ubinafsi na tamaa ulivyopweza ubinadamu wa wahusika kwa mujibu wa riwaya ya *Chozi la Heri*. **(alama 8)**

c) Kwa kurejelea Pete na Shamsi, jadili mchango wa wahusika hawa katika kujenga maudhui. **(alama 8)**

SEHEMU C: USHAIRI

4. ***Soma shairi lifuatalo kisha ujibu maswali.***

Timothy Arege – Mwili

Leo kitaka nifike, natamani, ila wauma mwili
Kwa kazi nihusike, samahani, unahili kimwili
Napenda nihesabike. makundini, ila huwezi mwili.

Vitisho pamwe kelele, ninavicha, kwa nafsi na mwili
Ila ugonjwa utimile, umechacha, na kuudhili mwili
Msikose simile, magalacha, si gurudumu mwili.

Vingekuwepo viraka, kuutia, ngeushuruti mwili
Kifundi kuvipachika, kuingia, hata kuridhi mwili

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Upya ukaungilika, kuvutia, roho na wake mwili.

Lakini kamwe haiwi, kuvipata, vipande vyake mwili
Sihofu kupata mawi, sitajuta, kupigania mwili
Hata kufutwa sikawi, nitakita, kidete nao mwili

Kazi ninaithamani, ni hakika, akilini na mwili
Ila kamwe siamini, kusagika, damu jasho na mwili
Uwele hususani, kioneka, nguvu hitishi mwili

Maswali

a) Fafanua mambo ambayo mtunzi anasisitiza katika shairi hili. **(alama 8)**

b) Bainisha mbinu nne ambazo mtunzi ametumia kutosheleza mahitaji ya kiarudhi katika shairi. **(alama 4)**

c) Eleza toni ya shairi. **(alama 2)**

d) Tambua nafsi nenewa na nafsi neni katika shairi hili **(alama 2)**

e) Bainisha bahari ya shairi hili kwa kurejelea vipande. **(alama 1)**

f) Andika ubeti wa mwisho kwa lugha nathari. **(alama 3**

5. Soma shairi lifuatalo kisha ujibu maswali.

KAMA SODOMA!

Miji yetu kwa yakini, kidogo kama Sodoma!
Haihitaji makini, kwa mwenye macho mazima
Utaona walakini, mradi ukitizama
Wanazini hadharani, wana kwa watu wazima
Yafanana na Sodoma, miji yetu kwa yakini.

Miji yetu kwa yakini, kidogo kama Sodoma!
Wanazini hadharani, wana kwa watu wazima
Wanatafuna maini, vijana na kina mama
Hawana haya nyusoni, wameharamisha wema
Yafanana na Sodoma, miji yetu kwa yakini.

Miji yetu kwa yakini, kidogo kama Sodoma!
Hawana haya nyusoni, wameharamisha wema
Baba na binti ndani, wanacheza lelemama
Marijali wa mbioni, kujipagaza umama
Yafanana na Sodoma, miji yetu kwa yakini.

Miji yetu kwa yakini, kidogo kama Sodoma!
Marijali wa mbioni, kujipagaza umama
Wameikataa dini, toka tumboni mwa mama
Wadai wataliani, watajirisha mapema
Yafanana na sodoma, mji yetu kwa yakini.

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Miji yetu kwa yakini, kidogo kama Sodoma!
Wadai ufirauni, watajirisha mapema
Hivyo mambo ya kigeni, yametunukiwa dhima
Uwaonapo fuoni, nusu uchi wa mnyama
Yafanana na Sodoma, miji yetu kwa yakini.

Miji yetu kwa yakini, kidogo kama Sodoma!
Uwaonapo fuoni, nusu uchi wa mnyama
Watu hawana imani, umezidi uhasama
Na viongozi wa dini, kuabudu darahima
Yafanana na Sodoma, miji yetu kwa yakini.

Miji yetu kwa yakini, kidogo kama Sodoma!
Na viongozi wa dini, kuabudu darahima
Wamekeuka yamini, kati yao na Rahima
Wamemuasi Manani, na kusahau kiyama
Yafanana na sodoma, miji yetu kwa yakini.

Miji yetu kwa yakini, kidogo kama Sodoma!
Wamemuasi manani, na kusahau kiyama
Ya Illahi tuauni, tuwe watu maamuma
Tukue katika dini, siku zetu za uzima
Yafanana na Sodoma, miji yetu kwa yakini.

MASWALI

(a) Bainisha bahari ya shairi hili ukijikita katika ruwaza zifuatazo **(alama 3)**

i) Mishororo

ii) Maneno

iii) Vina

(b) Eleza muundo wa shairi hili **(alama 4)**

(c) Bainisha mbinu zifuatazo za kimtindo katika shairi hili **(alama3)**

i) Tashbihi

ii) Taswira

iii) Tasfida

(d) Eleza toni ya shairi hili **(alama1)**

(e) Bainisha nafsi nenewa katika shairi hili **(alama 1)**

(f) Fafanua dhamira ya mtunzi wa shairi hili **(alama 2)**

(g) fafanua ujumbe wa shairi hili **(alama 4)**

(h) Fafanua maana ya maneno haya kama yalivyotumiwa na mshairi **(alama 2)**

i) Manani

ii) Marijali

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SEHEMU YA D: Hadithi Fupi – Mapambazuko ya Machweo na Hadithi Nyingine – Dw Lutomia

6. "Poko! Ukiumwa na nyuki haina haja ya kujitwika jukumu la kuharibu mizinga yote ya asali. Hujui faida ya nyuki ulimwenguni? Uliamua kuharibu asali ya nchi. Jadili maudhui ya ukiukaji wa haki za watoto katika hadithi ya ;

i. Mapambazuko ya Machweo **(alama 10)**

ii. Sabina **(alama 10)**

7. Siku moja alipokataa katakata kuandamana na mumewe, jungu lilifoka. "Wewe mke sampuli gani usiyetaka kumuunga mkono mmeo?" Haya kaa nyumbani. Kula na kulala tu, hujui jingine. Ona umbo lako sasa, kama nguruwe. Si mke mrembo niliyeoa! Wanawake ni wengi…"

a) Eleza muktadha wa dondoo hili. **(alama 4)**

c) Bainisha vipengele vinne vya kimtindo katika dondoo hili **(alama 4)**

e) Fafanua nafasi ya mwanamke katika hadithi hii. **(alama 12)**

SEHEMU E: FASIHI SIMULIZI

8. Soma kifungu hiki kisha ujibu maswali

Hapo zamani za kale, Nyani na Mamba walikuwa marafiki wa kufa kuzikana. Watoto wao walipendana na kufaana kama ndugu wa toka nitoke. Familia ya Mamba aliishi mtoni nayo ya Nyani aliishi katika msitu uliokuwa maili thelathini kutoka mtoni. Kila mara marafiki hawa walitembeleana na kusaidiana kwa hali na mali. Kwa vile Mamba alikuwa mvuvi mashuhuri, aliweza kumwauni Nyani na aila yake kwa samaki wa aina mbalimbali. Nyani naye alimpelekea Mamba matunda na nafaka kutoka shambani mwake.

Urafiki wao ulikita mizizi na kunawiri zaidi wakati Mamba alipokuja kwa Nyani kumposea mwanawe binti. Ukwe uliutilia viungo uhusiano wa Nyani na Mamba wakawa wanagandana kama kupe na mkia wa ng'ombe. Wakatenda mengi pamoja. Wakazungumza ya kupwa na ya kujaa. Hakuna hata mmoja wao aliyeutilia shaka uaminifu wa mwenzake. Wake zao nao walifuata kaida ya maji kufuata mkondo. Walikuwa masahibu wa chanda na pete.

Msimu mmoja wa mapukutiko ulishuhudia mabadiliko ya kudumu katika maisha ya Nyani na Mamba. Wakati huo, bahari ilichafuka si haba. Kazi ya Mamba ya uvuvi ikaanza kukabiliwa na majabali ya kila aina. Kila mara Mamba alipokwenda uvuvini, alirudi akichekelewa na nyavu zake. Hakuambulia chochote. Njaa ilianza kubisha hodi katika familia ya Mamba. Hali hii ilitishia kuutia ufa urafiki kati ya Mamba na Nyani. Mamba alivamiwa na pepo ambaye hata yeye alishindwa kumfahamu. Kila mara alipomwona. Nyani au watoto wake alitamani kumdakia na kumla mzima mzima. Kadiri alivyojaribu kujiasa dhidi ya fikira hii mbovu ndivyo moyo wake ulivyoendelea kumshauri, "Una njaa bwana, familia yako itaangamia. Je huoni rafiki yako na familia yake wanaweza kuwa kitoweo? Utaendelea kula wishwa hadi lini? Mbona huyo Nyani ambaye anajiita rafiki yako sasa amekata guu humu? Mbona haji tena kukutazama? Hata karafuu alizokuwa akikuletea ameacha kuleta. "Mamba akaanza kumshuku rafiki yake na akasadiki kuwa Nyani alikuwa mla naye tu.

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Usiku mmoja baada ya kula mate na kujilaza kitandani mwake akihesabu nyota, wazo lilimjia. Alikata shauri kumlaghai rafiki yake wa miaka mingi ili apate kujiokoa yeye na familia yake kutoka katika kinamasi cha njaa. Asubuhi yake alikwenda kwa Nyani akiwa amejiinamia kwa jitimai. Alisema, "Rafiki yangu, jana tulipoagana nilipata tanzia. Mjumbe kutoka kijijini aliniarifu kuwa baba yangu ni mgonjwa mahututi. Alisema kwamba baba ananitaka nyumbani upesi," Habari hizi zilimtia Nyani majonzi makuu. Alimwahidi Mamba kwamba wangeandamana pamoja. Kwa vile Nyani hangeweza kutembea majini, ilibidi abebwe na Mamba. Alipatwa na kichefuchefu na manyezi kila alipotazama bahari iliyojitandaza mbele yao kwa mbwembwe. Hata hivyo, Mamba alimhakikishia kuwa wangefika salama. Naye kwa Imani iliyotokana na urafiki na mazoea ya miaka mingi, alitulia.

Safari ilikuwa ndefu na yenye machovu yaliyomfanya Nyani kulala mgongoni mwa Mamba. Walipofika kwenye vina vya maji, Mamba aliamua kumpasulia mbarika Nyani. "Rafiki yangu, nimekuwa nikidhani wewe ni rafiki wa dhati, kumbe uzuri wako wa mkakasi? Mimi na wanangu tumetafunwa na njaa kwa miezi kadha sasa huku maghala yako yakishiba na kutapika chakula. Hujadiriki hata siku moja kuja kujua kama nimepata hata senti moja ya kusagia mkunguni. Jana usiku nilipokuwa nikiwazia hali yangu, nilioteshwa katika ndoto kwamba kama ningepata moyo wako na kuula, basi hali ya uhitaji ingeniishia. Moyo wangu unaniuma sana kukufanyia tendo hili, hata hivyo lisilo budi hutendwa."

Nyani alipigwa na butwaa nusura moyo wenyewe ujikabidhi kwa Mamba. Hata hivyo, akili yake nyepesi ilifanya kazi. Alimwambia Mamba,"Ndugu yangu, pole sana ikiwa umekuwa unadhani sikujali. Kwa kweli, hata ungeniomba moyo wangu siku hizo ningekupa tu. Unajua tena sisi Nyani, Tumbili na Kima tuna mioyo mingi. Hata hivyo, nasikitika kuwa Mungu alituambia kuwa daima mioyo yetu itakaa mitini. Basi ndugu mpenzi, badala ya kuendelea na safari hii, turudi pale mtini nikupe moyo wangu pamoja na mitatu ya wanangu kusudi uwalishe wanao na mkeo."

Mamba akaingia mtegoni. Wakarudi hadi ufuoni. Kwa vile Mamba hakuweza kutoka majini, alibaki ufuoni akimngojea rafiki yake amletee mioyo.

Mamba alitunga macho yake kwenye ujia alioufuata Nyani akiomba pasitokee lolote la kumchelewesha Nyani. Matumbo yalimnguruma kwa njaa. Roho ikampapa kwa tumaini. Alingoja, akangoja, akangoja... wiki, mwezi, mwaka... Nyani hakurudi. Mamba akajua amepwaguliwa na Nyani. Akaapa kumtafuta kwa udi na ambari. Huo ukawa mwisho wa urafiki kati ya Nyani na Mamba. ***Hadithi yangu inaishia hapo.***

<u>Maswali</u>

a) Tambua kipera cha utungo huu. Thibitisha. **(alama 2)**

b) Fafanua mbinu sita za kimtindo alizotumia mtambaji wa utungo huu. **(alama 6)**

c) Jadili shughuli za kiuchumi na shughuli za kijamii katika jamii hii. **(alama 4)**

d) Umepewa jukumu la kutamba ngano hii. Fafanua mambo manane muhimu utakayozingatia ili kufanikisha uwasilishaji wako. **(alama 8)**

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KCSE 2023 PREDICTION

POSSIBLE SERIES 1 EXAM

313/1

CHRISTIAN RELIGIOUS EDUCATION

PAPER 1

TIME: 2½ HOURS

NAME……

SCHOOL…… **SIGN**……

INDEX NO…… **ADM NO**……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

- *Write your name and admission number in the spaces provided above.*
- *This paper consists of six questions.*
- *Answer any **FIVE** questions in the answer sheet provided*
- *Each Question carries 20 marks*

FOR EXAMINERS USE ONLY

Questions No.	1	2	3	4	5	6	GRAND TOTAL
Marks							

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*Answer any **FIVE** questions*

1. a) Identify **five** books of the Holy Bible referred to as Writings. **(5 marks)**

b) Describe **five** teachings about marriage from the Genesis stories of creation. **(10 marks)**

c) What are the consequences of evil in the traditional African society. **(5 marks)**

2. a) Identify the **five** animals used by Abraham during the covenant making process**. (5 marks)**

b) What problems did Moses face as he led the Israelites during the Exodus? **(7 marks)**

c)Give **eight** ways in which Christians in Kenya show their respect to God. **(8 marks)**

3.a) Outline **six** promises that God gave to King David through Prophet Nathan. **(6 marks)**

b)Describe 8 ways in which King Solomon turned away from the covenant way of life.**(8 mks)**

c) Which lessons can the political leaders in Kenya learn from King Solomon? **(7 marks)**

4.a) Describe the message of hope prophet Amos gave to Israelites when they turned back to God. **(8 marks)**

b) Identify **six** evils Israel neighbours had committed to attract God's judgement. **(6 marks)**

c) State lessons Christians learn about God from Amos prophecies against Israel and other neighbouring nations. **(6 marks)**

5. a) State ways in which God prepared Jeremiah for his prophetic mission. **(5 marks)**

b)Describe the fall of Jerusalem city and temple. **(8 marks)**

c) State **seven** ways how Christians can evade God's judgment today. **(7 marks)**

6. a) State **five** reasons why grandparents educate the youth in the Traditional African Society. **(5 marks)**

b) Explain **five** ways the virtue of unity is promoted in the traditional African society.**(10 mrks)**

c) Explain **five** ways in which modern science and technology has affected traditional African Kinship. **(5 marks)**

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KCSE 2023 PREDICTION

POSSIBLE SERIES 1 EXAM

313/2

CHRISTIAN RELIGIOUS EDUCATION

PAPER 2

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

- *Write your name and admission number in the spaces provided above.*
- *This paper consists of six questions.*
- *Answer any **FIVE** questions in the answer sheet provided*
- *Each Question carries 20 marks*

FOR EXAMINERS USE ONLY

Questions No.	1	2	3	4	5	6	GRAND TOTAL
Marks							

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*Answer any **FIVE** questions in the answer sheet provided*

1. (a) Explain the Jewish expectations concerning the Messiah. **(7 marks)**

(b) Describe the events that took place when Jesus was born (**Luke 2:6-20**) **(6 marks)**

(c) Identify **seven** lessons Christians learn about family relationships from the incident when Jesus accompanied his parents for the Passover Festival **(7marks)**

2. a) State six qualities of a true disciple according to Jesus teaching as recorded in **Luke 6:20-49.** **(6mrks)**

b) Describe the incident in which Jesus calmed the storm ***(Luke 8:22-25)*** ***(8marks)***

c) Give **six** reasons why Christians should have faith in God **(6marks)**

3. (a) Outline **eight** instructions that Jesus gave to the seventy two disciples when he sent them on a mission. **(8 marks)**

(b) Outline the preparations that Jesus made for the last supper. **(6 marks)**

(c) Give **six** reasons why Christians take part in the Lord's Supper. **(6 marks)**

4. a) Give **seven** reasons why Jesus sent the Holy Spirit to the disciples after his ascension.**(7mks)**

b) Explain how the unity of believers is expressed in the image of the Bride. **(6 marks)**

c) Identify ways in which the Christians in Kenya demonstrate the New Testament teaching on unity. **(7 marks)**

5. a) State **six** similarities between the Christian and African traditional view on leisure **(6 marks)**

b) Give **seven** reasons why Christians condemn the taking of alcohol as a way of spending leisure time? **(7 marks)**

c) Explain the Christian criteria for evaluating the use of leisure **(7 marks)**

6. a) Give **seven r**easons why laws are important to the people of Kenya **(7 marks)**

b) Identify the areas of co-operation between the church and the state? **(7 marks)**

c) State ways in which Christians have politically transformed the society. **(6 marks)**

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KCSE 2023 PREDICTION

POSSIBLE SERIES 1 EXAM

311/1

HISTORY AND GOVERNMENT

PAPER 1

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

- *This paper consists of three sections A,B and C*
- *Answer **All** questions in section A,**three** questions in section B and **two** Questions in section C*
- *Answer to all question must be written in the answer booklet provided*
- *Candidate should answer the questions in English*

FOR EXAMINER USE ONLY

SECTION	QUESTION	MAX SCORE	SCORE
A	1-17	25	
B		15	
		15	
		15	
C		15	
		15	
TOTAL SCORE			

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SECTION A (25 Marks)

*Answer **all** questions in this section*

1. What is the significance of Rusinga Island to the history of Kenya? **(1 mark)**

2. Name **two** sub-tribes of the Ameru community in Kenya. **(2 marks)**

3. State the **main** evidence that the Chinese traders reached the East African coast. **(1 mark)**

4. Identify the **main** cause of disagreement between the two Arab families at the East African Coast. **(1 mark)**

5. State **two** reasons why the Maasai kept large herds of cattle. **(2 marks)**

6. State **two** ways in which the constitution of Kenya promotes National Unity. **(2 marks)**

7. Name the court that tries presidential election petitions in Kenya. **(1 mark)**

8. Give the **main** type of constitution used in Kenya. **(1 mark)**

9. Identify **two** groups that monitor human rights in Kenya. **(2 marks)**

10. Give **two** forms of resistance by Kenyans against the British colonial rule. **(2 marks)**

11. Identify the Kenyan community which had centralized system of government. **(1 mark)**

12. Name educational commissions established in the colonial Kenya. **(2 marks)**

13. Give the **main** reason for the formation of Kenya African Development Union. (**KADU).(1 mrk)**

14. Define the " Harambee spirit" **(1 mark)**

15. State **two** levels of government in Kenya. **(2 marks)**

16. Identify the Key constitutional amendment made in 1982 to the Kenyan constitution. **(1 mark)**

17. State **two** types of expenditure in Kenya. **(1 mark)**

SECTION B: (45 Marks)

*Answer any **THREE** questions from this section.*

18. a) Identify **three** economic reasons for the migration and settlement of the Maasai. **(3 marks)**

b) Discuss the social organization of the Mijikenda during pre-colonial period. **(12 marks)**

19. a) Identify **five** factors that facilitated contact between Kenyan coast and the outside world. **(5 marks)**

b) Explain **five** factors that led to the decline of the Portuguese rule at the coast. **(10 marks)**

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20. a) Identify the methods used by colonial government to acquire land for European settlers. **(5 marks)**

b) Explain **five** reasons why Kenyan farmers were not allowed to grow coffee. **(10 marks)**

21. a) State **three** characteristics of early political organizations up to 1939. **(3 marks)**

b) Explain **six** problems encountered by the Trade Union movement in Kenya during the colonial period. **(2 marks)**

SECTION C: (30 MARKS)

*Answer any **TWO** questions from this section*

22. a) Identify **five** elements to of good citizenship in Kenya. **(5 marks)**

b) Explain **five** rights of arrested persons. (**10 marks**)

23. a) Identify the **five** electoral officials in Kenya. **(5 marks)**

b) Explain **five** functions of the Independent Electoral and Boundaries Commission **(10 marks)**

24. a) State **three** sources of revenue for the National government. **(3 marks)**

b) Explain **six** ways in which the constitution regulates public finance and expenditure**.(12 marks)**

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KCSE 2023 PREDICTION

POSSIBLE SERIES 1 EXAM

311/2

HISTORY AND GOVERNMENT

PAPER 2

TIME: 2½ HOURS

NAME……

SCHOOL…… **SIGN**……

INDEX NO…… **ADM NO**……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

- *This paper consists of three sections A,B and C*
- *Answer **All** questions in section A,**three** questions in section B and **two** Questions in section C*
- *Answer to all question must be written in the answer booklet provided*
- *Candidate should answer the questions in English*

FOR EXAMINER USE ONLY

SECTION	QUESTION	MAX SCORE	SCORE
A	1-17	25	
B		15	
		15	
		15	
C		15	
		15	
TOTAL SCORE			

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SECTION A (25 MARKS)

*Answer **all** questions in this section in the spaces provided at the end of question 24.*

1. Identify **two** limitations of using written records as a source of information on history and government**.** **(2 marks)**

2. State **two** methods used by early man to find food during the Stone Age period. **(2 marks)**

3. Identify **two** ways through which early agriculture spread in Africa. **(2 marks)**

4. Give the **main** advantage of using money in trade. **(1 mark)**

5. Mention **one** symbol of national unity among the Asante in the pre-colonial period. **(1 mark)**

6. State **two** problems faced by the workers during the industrial revolution in Europe.**(2 marks)**

7. State **two** disadvantages of using coal as a source of industrial energy. **(2 marks)**

8. State the **main** factor that led to the growth of the ancient town of Kilwa. **(1 mark)**

9. Give **one** method used by the French to administer their colonies in Africa. **(1 mark)**

10. Identify the **main** aim of the Berlin conference between 1884 and1885. **(1 mark)**

11. Give **two** reasons why the British used direct rule in former Southern Rhodesian. **(2 marks)**

12. Name the chartered company that was to administer Tanganyika during the process of colonization. **(1 marks)**

13. Identify **two** principles of the Arusha declaration of 1967**.** **(2 marks)**

14. Identify **one** house of congress in the United State of America. **(1 mark)**

15. State **two** countries in Africa which were affected by cold war**.** **(2 marks**)

16. Identify **one** major political party in Britain**.** **(1 mark)**

17. State **one** county in Europe with VETO power. **(1 mark)**

SECTION B: (45 MARKS)

*Answer any **three** questions from this section*

18. a) Name **three** cash crops that were grown in North American during the Agrarian revolution. **(3 marks)**

b) Explain **six** effects of food shortage in Africa**.** **(12 marks)**

19. a) State **five** reasons why African slaves were preferred to other races during the Trans-Atlantic Trade. **(5 marks)**

b) Explain **five** factors that led to decline of Trans-Atlantic trade**.** **(10 marks)**

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20. a) Identify **five** privileges enjoyed by the assimilated Africans in the four French communes in Senegal. **(5 marks)**

b) Explain **five** reasons that led to the failure of French policy of Assimilation. **(10marks)**

21. a) State **five** factors that promoted nationalism in Ghana. **(5 marks)**

b) Explain **five** challenges faced by Africans nationalist in South Africa during the struggle for independence. **(10 marks)**

SECTION C: (30 MARKS)

*Answer any **two** questions from this section*

22. a) Give **three** functions of the Lukiko in the kingdom of Buganda during the pre-colonial period. **(3 marks)**

b.) Describe the political organization of the Shona during the pre-colonial period**.** **(12 marks)**

23. a) State **five** demands Austria Hungary gave Serbia after the assassination at Sarajevo that led to the outbreak of World War I. **(5 marks)**

b.) Explain **five** ways through which the Versailles Treaty of 1919 affected Germany. **(10 marks)**

24. a) Give **three** conditions that one should fulfill in order to elected a senator in USA. **(3 marks)**

b) Explain **six** challenges facing the Common Market of Eastern and Southern Africa (COMESA). **(12 marks)**

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KCSE 2023 PREDICTION

POSSIBLE SERIES 1 EXAM

312/1

GEOGRAPHY

PAPER 1

TIME: 2¾ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

(a) *Write your name, admission number and class in the spaces provided above.*

(b) *This paper has* ***two*** *sections:* ***A*** *and* ***B.***

(c) *Answer* ***all*** *the questions in section* ***A.***

(d) *Answer* ***question 6*** *(compulsory) and any other two questions from section* ***B.***

For Examiner's Use Only

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATE'S SCORE
A	1 - 5	25	
B	6	25	
		25	
		25	
	TOTAL SCORE	**100**	

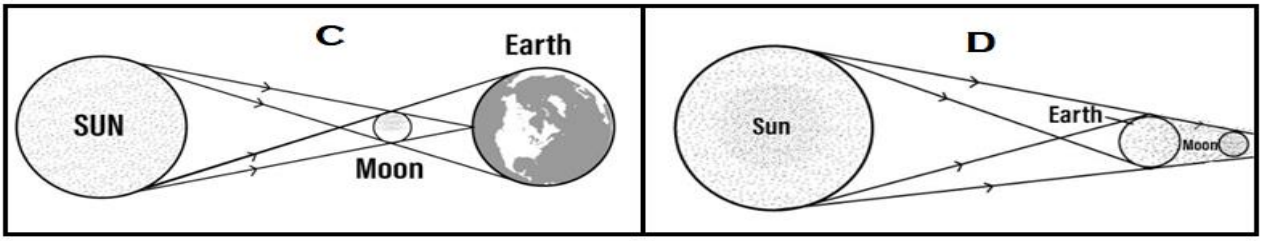
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SECTION A

*Answer **all** the questions in this section.*

1. (a) Name **two** major latitudes on the earth **(2 marks)**

(b) The figures below show two effects of revolution of the earth and the moon. Use them to answer the questions that follow.



(i) Name the effects labeled **C** and **D**. **(2 marks)**

(ii) Describe the occurrence of effect labeled **C**. **(2 marks)**

2. The table below shows the temperature and rainfall characteristics of a station around the Lake Victoria basin. Use it to answer the questions that follow.

Month	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**
Temperature (^{0}C)	23.6	24.5	23.9	22.8	22.5	22.4	22.5	22.7	23.2	23.2	22.7	22.9
Rainfall (mm)	115	94	190	288	273	109	98	107	113	202	248	189

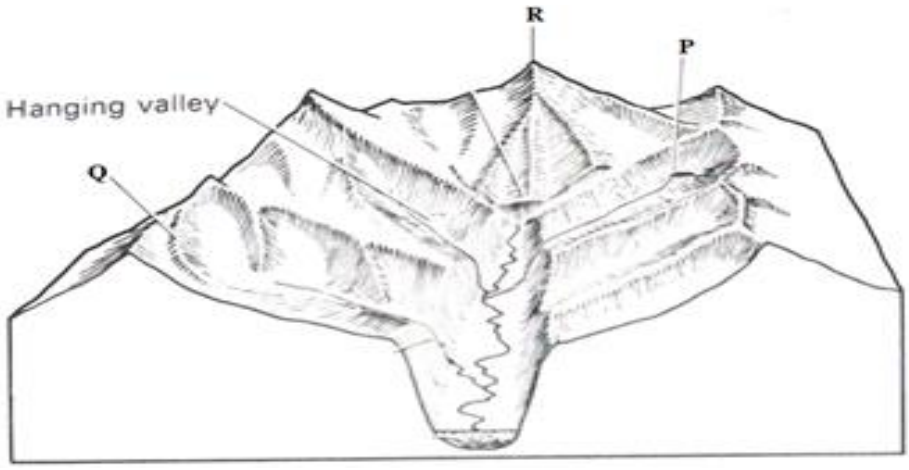
(a) Name **two** instruments that could have been used to collect the data above. **(2 marks)**

(b) State **three** characteristics of the weather experienced in the station. **(3 marks)**

3. Name **four** major earthquake zones of the world. **(4 marks)**

4. (a) Name **two** major areas in East Africa that experience glaciation. **(2 marks)**

(b) The diagram below shows some features of glacial erosion in highland areas. Use it to answer the questions that follow.



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(i) Name the parts marked **P** and **Q**. **(2 marks)**

(ii) Give **one** example of the feature labeled **R** in East Africa. **(1 mark)**

5. (a) Differentiate between a constructive wave and a destructive wave. **(2 marks)**

(b) State **three** factors that influence wave deposition. **(3 marks)**

SECTION B

Answer ***question 6 (compulsory)*** and any other ***two*** questions in this section

6. Study the map of **Kisumu East (1:50000)** provided and answer the following questions.

(a) i) What is the bearing of the trigonometrical station at Grid reference 081980 from the rock out crop at grid reference 071992. **(2 marks)**

ii) Measure the length of the all – weather road (bound surface) B 2/1 from the junction at grid reference 974911 to the edge of the Map, grid reference 947967.(Give your answer in kilometers) **(2 marks)**

iii) Draw a rectangle 10m by 15cm to represent the area covered by the map. On a rectangle, mark and name: **(1 mark)**

- A lake **(1 mark)**
- A plantation **(1 mark)**
- River Luando **(1 mark)**

b) i) Describe the relief of the area covered by the map. **(4 marks)**

ii) Explain how relief has influenced settlement in the area covered by the map. **(4 marks)**

b) Citing evidence from the map, give **three** economic activities carried out in the area covered by the map. **(3 marks)**

c) Students from the school at Masogo (grid square 0681) carried out a field study of the course of River Ombeyi.

i) State **three** findings they are likely to have come up with **(3 marks)**

ii) Give **three** advantages of studying rivers through field work **(3 marks)**

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7. (a) (i) Name **two** output processes of the hydrological cycle. **(2 marks)**

(ii) State **three** importance of the hydrological cycle. **(3 marks)**

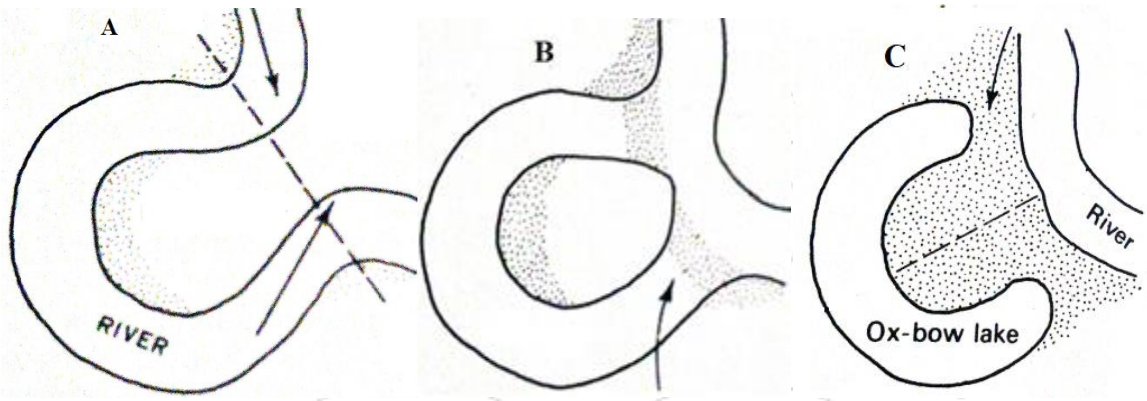
(b) Citing an example in each case, name **three** sources of rivers in Kenya. **(3 marks)**

(c) Explain how the following factors influence river erosion;

(i) Stream gradient, **(2 marks)**

(ii) Nature and amount of load. **(2 marks)**

(d) The diagrams below show formation of a feature of river deposition. Use them to answer the questions that follow.



(i) Describe the processes in the diagrams labeled:

- **A** **(1 mark)**
- **B** **(2 marks)**
- **C** **(3 marks)**

(ii) Name **three** examples of ox-bow lakes in Kenya. **(3 marks)**

(e) Members of your class plan to conduct a field study on the lower course of River Nzoia.

(i) Name **one** county they may visit for the study. **(1 mark)**

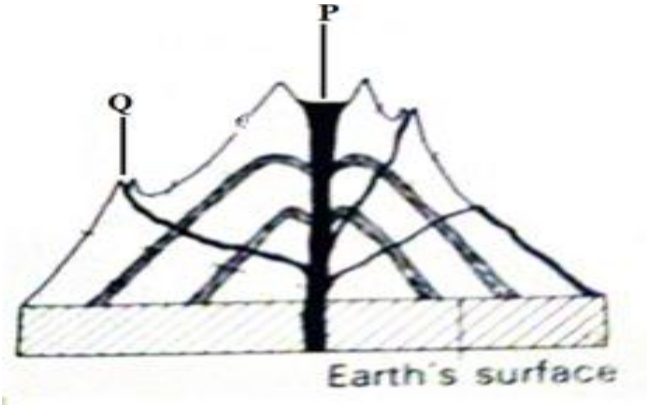
(ii) State **three** characteristics of the river they are likely to observe during the study. **(3 marks)**

8. (a) (i) Define the term volcanicity. **(2 marks)**

(ii) Give the **three** life cycles of a volcano. **(3 marks)**

(b) The diagram below shows a feature of extrusive vulcanicity. Use it answer the questions that follow.

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(i) Name the parts labeled **P** and **Q**. **(2 marks)**

(ii) State **three** characteristics of the feature. **(3 marks)**

(iii) Give **two** examples of the feature in East Africa. **(2 marks)**

(c) With the aid of a clearly labeled diagram, describe the formation of the following features of vulcanicity.

(i) Lava plateau. **(5 marks)**

(ii) Dyke. **(4 marks)**

(d) State **three** negative effects of volcanic summits. **(3 marks)**

9. (a) (i) Define the term denudation. **(2 marks)**

(ii) Explain **two** ways in which living organisms influences weathering. **(4 marks)**

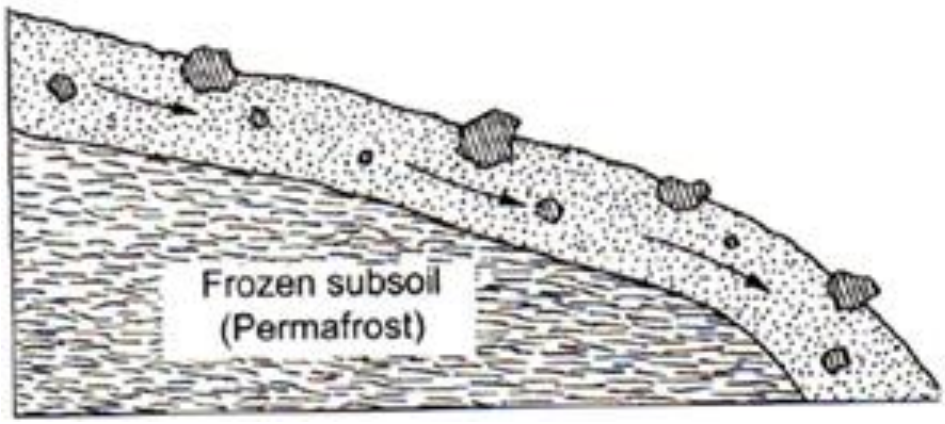
(b) (i) Name **two** major areas that are likely to experience physical weathering. **(2 marks)**

(ii) Give **three** processes of physical weathering. **(3 marks)**

(c) (i) Differentiate between mass wasting and mass movement. **(2 marks)**

(ii) Give **three** human activities may trigger mass wasting. **(3 marks)**

(d) The diagram below shows a process of mass wasting. Use it to answer the questions that follow.



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(i) Name the process shown above. **(1 mark)**

(ii) What type of mass wasting is shown in the process? **(1 mark)**

(iii) Describe how the process occurs. (**3 marks)**

(e) Members of your class have planned to conduct a field study on mass wasting within the school's environment.

(i) State **two** reasons why they would need to conduct a reconnaissance. **(2 marks)**

(ii) Give **three** evidences of soil creep that they are likely to observe during the study(**3 marks)**

10. (a) (i) Give **three** conditions that must be satisfied by a mineral. **(3 marks)**

(ii) Describe the following characteristics of minerals:

- Lustre **(2 marks)**
- Cleavage **(2 marks)**

(b) State **two** ways in which volcanic rocks may be formed. **(2 marks)**

(c) (i) State **four** characteristics of sedimentary rocks. **(4 marks)**

(ii) Why is the coastal part of Kenya distributed with majorly sedimentary rocks**?(3 marks)**

(ii) Give **three** examples of metamorphic rocks. **(3 marks)**

(d) Explain **three** significance of rocks to the human environment. **(6 marks)**

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KCSE 2023 PREDICTION

POSSIBLE SERIES 1 EXAM

312/2

GEOGRAPHY

PAPER 2

TIME: 2¾ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

(a) *Write your name, admission number and class in the spaces provided above.*
(b) *This paper has two sections **A** and B*
(c) *Answer **all** the questions in **SECTION A**.*
(d) *Answer **question 6** and any other two questions from **SECTION B.***
(e) *All answers must be written in English.*

For Examiner's Use Only

Questions	Candidate's Score	Maximum Score
1 -5		25
6		25
		25
		25
Total Score		100

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SECTION A

Answer All the questions in this section

1. (a) Define the term Forestry. **(2marks)**

(b) Give the reason why softwood forests in the Kenya Highlands mature faster than those in Canada. **(2marks)**

(c) Name the tree species that grows on the saline coastal **waters** **(1mark)**

2. (a) Identify **two** methods that are used to drain swamps in Kenya **(2marks)**

(b) Give **three** benefits of draining Yala swamp to the local community. (**3marks)**

3. (a) Define the term green energy. **(2marks)**

(b) Name **three** sources of Green Energy. **(3marks)**

4. (a) Name **two** rivers in Africa, that are navigable. **(2marks)**

(b) State **three** factors that have hindered river transport in Africa. **(3marks)**

5. (a) Name **two** deciduous fruits grown in Kenya. **(1mark)**

(b) State **three** reasons why horticulture farming is concentrate near Naivasha. **(3marks)**

SECTION B

Answer question 6 and two other questions from this section

6. Use the following table to answer questions 6(a) (i) and (ii)

Number of dairy animals in division x in the Kenyan highlands in 1982

BREED	NUMBER
Gursey	8442
Ayshire	7345
Jersey	10,830
Fresian	14,360
Sahiwal	4,270

(a) (i) Using a scale of 1cm to represent 4000 animals represent the above data using a simple divided rectangle**.** **(8marks)**

(ii) Give **three** advantages of using divided rectangles to represent data**.** **(3marks)**

(iii) State **three** advantages of using artificial insemination in cattle breeding. **(3marks)**

(b) Give **three** characteristics of each of the following types of farming.

(i) Subsistence farming. **(3marks)**

(ii) Extensive farming. **(3marks)**

(c) State **five** human factors that favour beef farming in Argentina**.** **(5marks)**

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7. (a) (i) Differentiate the term veins from Lodes in mining. **(2marks)**

(ii) State the reason why mining is called a Robber Industry**.** **(2marks)**

(b) (i) Fill in the table below on Kenyan minerals in your answer booklet. **(6 marks)**

Mineral	Where mined	Mining method used
Gold		
Limestone		
Petroleum/ Oil		

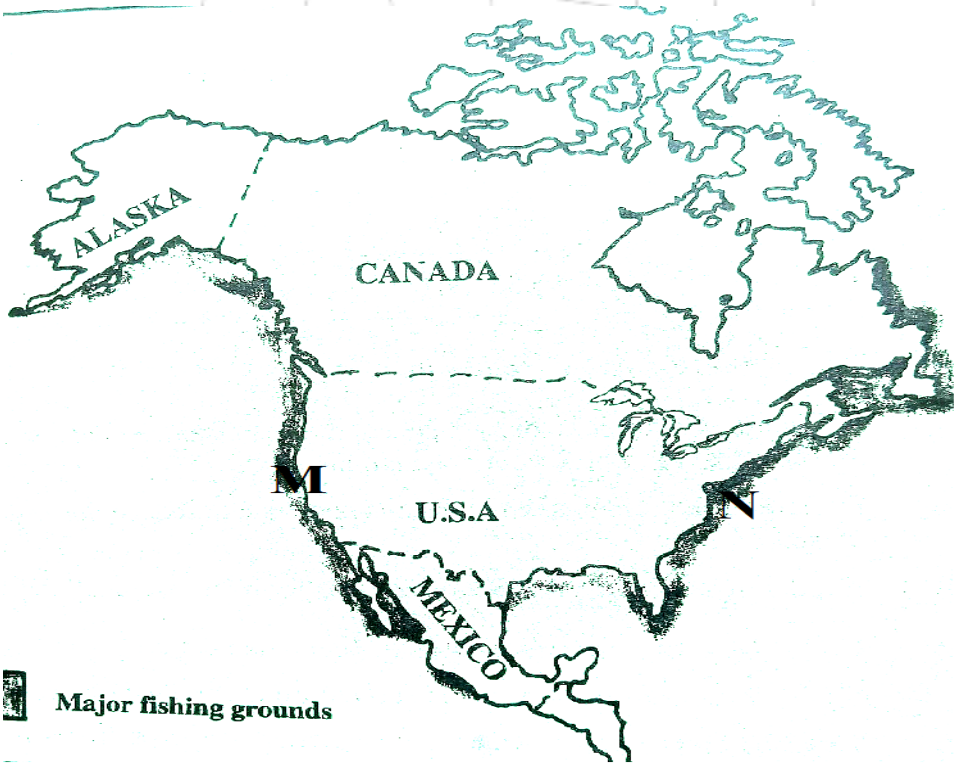
(ii) Describe how Trona is mined in Lake Magadi. **(4marks)**

(iii) State **four** ways in which Trona mining has promoted the growth of Magadi Town in Kajiado County. **(4 marks)**

(c) (i) Name **two** provinces in South Africa where Gold is mined**.** **(2marks)**

(ii) State **five** problems facing Gold mining in South Africa. **(5marks)**

8. (a) Use the map of North America below to answer question (a)(i) and (ii)



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(i) Name the fishing grounds marked **M** and **N** **(2marks)**

(ii) From the map identify the physical factor favouuring fishing in the two named grounds **(1mark)**

(iii) State **three** measures taken to conserve the Salmon fish in the fishing ground mark M from depletion. **(3marks)**

(b) (i) Name **three** main fish landing beaches on Kenya's Lake Victoria. **(3marks)**

(ii) Explain **four** factors favouring fishing in Lake Victoria**.** **(8marks)**

(c) (i) What is fish farming? **(2marks)**

(ii)Apart from the Tilapia, name **two** main types of fish reared in fish farms in Kenya **(2marks)**

(iv) State **four** reasons why Tilapia is more popular in fish farming in East Africa**.** **(4marks)**

9. (a)(i) Distinguish between balance of trade and balance of payment. **(2marks)**

(ii) If Kenya imported electronics and automobiles worth Ksh. 200,002,987, Medical Services worth Ksh.185, 876,440 in the year 2000, while their exports the same year were Agriculture, Ksh. 189,000,657/= and Education Ksh.150, 012,230. Calculate Kenya's balance of trade in that year. **(2marks)**

(b) (i) List three major exports from Kenya to the European Union. **(3marks**)

ii) Give **four** reasons why Southern African Development Co-operation (SADC) was formed. **(4marks)**

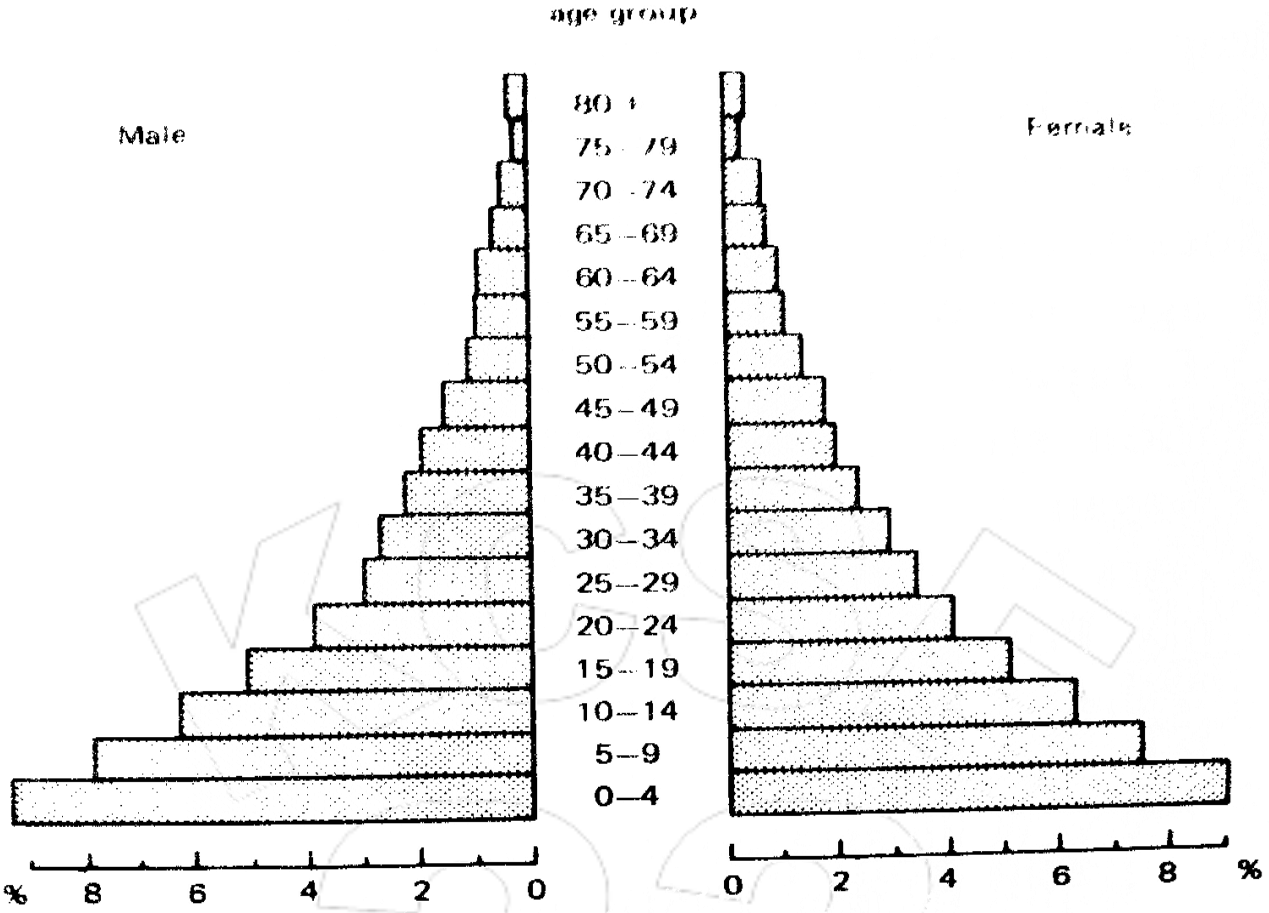
(c) (i).Explain the following trade restrictions terms

- Tariffs **(2marks)**
- Quotas **(2marks)**
- Trade agreements **(2marks)**
- Total bans **(2marks)**

(ii) Explain **three** factors which negatively impact on Kenya's International trade. **(6marks)**

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10. (a)(i) Identify the statistical diagram below **(1mark)**



(ii) Name **three** types of information that may be derived from the above statistical diagram. **(3marks)**

(iii) Give **three** factors that influence population growth **(3marks)**

(b) (i) Explain **four** possible reasons for the sudden rise of population in North Eastern Kenya. **(8marks)**

(ii). State **three** negative effects of a high population growth on the natural environment **(3marks)**

(c) (i) Name **three** other types of internal migration other than Rural to urban. **(3marks)**

(ii) State **five** measures taken by the Government to curb rural to urban migration. **(4marks)**

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KCSE 2023 PREDICTION

POSSIBLE SERIES 1 EXAM

121/1

MATHEMATICS

PAPER 1

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

(a) *Write your name, admission number and class in the spaces provided above.*
(b) *Sign and write the date of examination in the spaces provided above.*
(c) *This paper consists of* ***two*** *sections****; Section I*** *and* ***Section II.***
(d) *Answer* ***all*** *the questions in* ***Section I*** *and any* ***five*** *questions from* ***Section II***
(e) ***Show all the steps in your calculations, giving your answers at each stage in the spaces provided below each question***
(f) *Marks may be given for correct working even if the answer is wrong.*
(g) *Non-programmable silent electronic calculators and KNEC Mathematical tables may be used, except where stated otherwise.*

For Examiner's Use Only

Section I

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Total

Section II

17	18	19	20	21	22	23	24	Total

Grand Total

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SECTION I (50 MARKS)

Answer ALL questions in the section in the space provided:

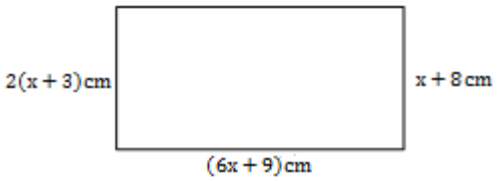
1. Evaluate without using a calculator 0.01% of $\left[\frac{\frac{1}{2}+0.75-\frac{3}{8}}{4.5-\frac{1}{8}-\frac{2}{5}}\right]$. **(3 marks)**

2. The sum of the ages of three brothers; Mike, Charles and Abdul is 65 years. Mike is twice as old as Abdul and one and half times as old as Charles. Determine their ages. **(3 marks)**

3. A supermarket has 18 apples, 30 oranges and 54 apples. The fruits are to be arranged in rows such that every row contains same number of fruits of one type only. Determine the least number of rows required for this arrangement to happen. **(3 marks)**

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4. Find the area of the rectangle below. **(3 marks)**



5. Without using a Calculator or Mathematical Table evaluate the value of p: **(3 marks)**

$\frac{4}{P^2} = 221^2 - 220^2$

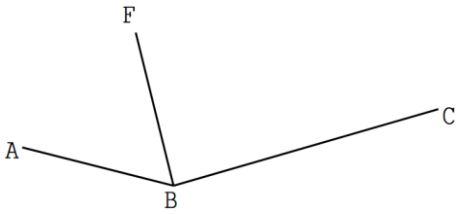
6. Calculate the value of x given that $\mathbf{OA} = \begin{pmatrix} x \\ 4 \end{pmatrix}$, $\mathbf{OB} = \begin{pmatrix} 5 \\ 7 \end{pmatrix}$ and $|\mathbf{AB}| = 5$ units. **(3 marks)**

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7. Solve for k in the equation $\frac{\sin(2k+10)^\circ}{\cos(3k-20)^\circ} = 1$. **(2 marks)**

8. Solve for x in the equation $\sqrt{-2x-6} - 3 = x$. **(3 marks)**

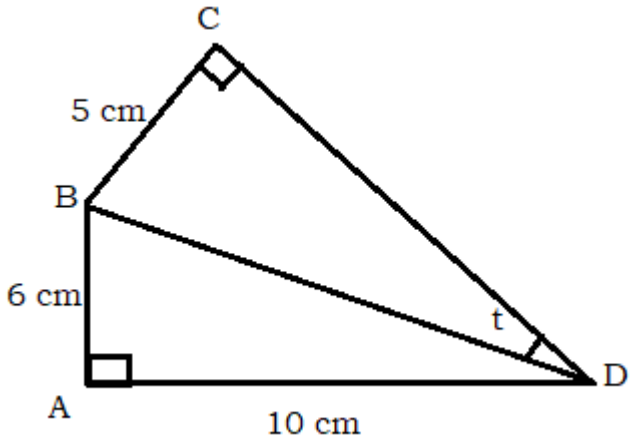
9. In the figure below ABF is a uniform cross section of a solid. AB, BC and BF are some of the visible edges of the solid. Complete the sketch showing the hidden edges with broken lines. **(3 marks)**



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10. Mr. Charles who deals in electronics sells a radio to a customer at Kshs. 1,440 after giving him a discount of 10% but finds that he still makes a 20% profit. Find the profit Mr. Charles would make if he does not give a discount. **(3marks)**

11. The figure below shows a set of two right angled triangles ABD and BCD conjoined by side BD. Sides AB, BC and AD are 6cm, 5cm and 10cm in lengths respectively.



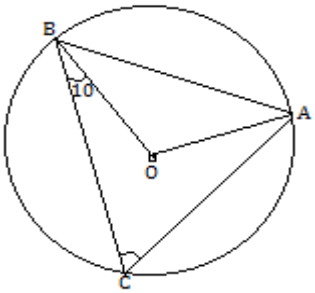
Calculate the size of angle CDB=t**.** **(4 marks)**

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12. Given that $\log 3 = 0.4771$ and $log\ 5 = 0.6990$, find without using Mathematical table or calculator log 0.045. **(3 marks)**

13. Two towns A and B are 810km apart. A car left A at 8:00am moving towards B at an average speed of xkm/h. A bus left town B at 9:30am moving towards A at an average speed of 84km/h. Determine the average speed of the car, xkm/h, if the two vehicles met at 11.00am. **(4 marks)**

14. In the figure given below, O is the centre of circle. If $\angle BCA = 80^0$ and $\angle CB0 = 10^0$.

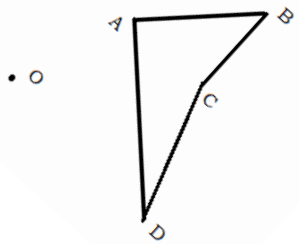


Determine the size of $\angle CAB$. **(3 marks)**

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15. Using mid-ordinate rule with six strips estimate the area between the curve $y = 3x^2 + 4x + 10$, $x -$ axis and the lines $x = -2$ and $x = 4$. **(4 marks)**

16. Construct $A^IB^IC^ID^I$ the image of quadrilateral ABCD below. Given that it undergoes under transformation enlargement with scale factor -2 and centre O. **(3 marks)**



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SECTION II (50 MARKS)

Answer ONLY FIVE questions in the section in the space provided:

17. The equation of line l_1 is $2x+3y+6=0$.

a) Find the gradient of line l_1 **(1 mark)**

b) The line l_2 is perpendicular to l_1 and passes through the point P with coordinates (7, 2), find the equation of l_2 , giving the answer in the form $y= mx+ c$ where m and c are constants. **(3 marks)**

c) The line l_1 and l_2 intersect at point Q. Find the coordinates of Q. **(3 marks)**

d) The line l_3 is parallel to l_1 and passes through point P. Find the equation of l_3 giving the answer in the form $ax+ by = c$, where a , b and c are constants. **(2 marks)**

e) Determine the x and y-intercepts of the line l_3. **(1 mark)**

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18. The Form Two Parents of **Isaboke High School** decided to buy laboratory equipment worth Kshs.900,000 by each student contributing equal amount of money. Before they made the contribution 50 students got transferred to other institutions and this made the remaining students to pay Kshs.600 more.

a) Taking to represent the original number of students, write down an expression for:

i) The original contribution per student**.** **(1 mark)**

ii) The new contribution per student. **(1 mark)**

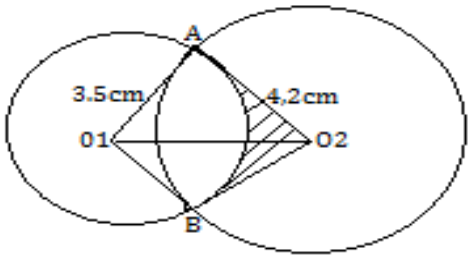
b) Find the original number of students who were to contribute. **(4 marks)**

c) Calculate the percentage change in the students' contributions. **(2 marks)**

d) If the ratio of boys to girls that remained in Form 2 was 13:12 calculate the amount contributed by the boys alone. **(2 marks)**

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19. Two circles of radii 3.5 and 4.2 cm with centres O_1 and O_2 respectively intersect at points A and B as shown in the figure below. The distance between the two centres is 6 cm and the distance from O_1 to the common chord AB along O_1O_2 is x cm.



Calculate:

a) The distance x cm to 3 decimal places**.** **(3 marks)**

b) The size of ∠AO1B and ∠AO2 B (to the nearest degree**).** **(3 marks)**

c) The area of quadrilateral O_1AO_2B, correct to 2 decimal **place** **(2 marks)**

d) The shaded area correct to two significant figures. (Take. $\pi = 3.142$). **(2 marks)**

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20. Three towns A, B and C are such that B is 120km on a bearing of 060^0 from A. C lies directly East of A on a bearing 165^0 from B. Using a scale of 1cm to represent 20km, a pair of compass and a ruler only, determine:

a) the relative positions of A, B and C. **(3 marks)**

b) drop a perpendicular from B to meet AC at M hence measure BM. **(2 marks)**

c) construct a circle passing through the vertices A, B and C then calculate the area covered in the circle. **(2 marks)**

d) Determine the amount of money used in ploughing the land inside the circle but outside triangle ABC at a rate of Kshs. 5000 per hectare. **(3 marks)**

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21. A solid is partly a cone and partly an hemisphere of radius 7cm. The slanting length of the cone is 25cm. Determine;

a) the height of the solid. **(2 marks)**

b) the volume of the solid **(3 marks)**

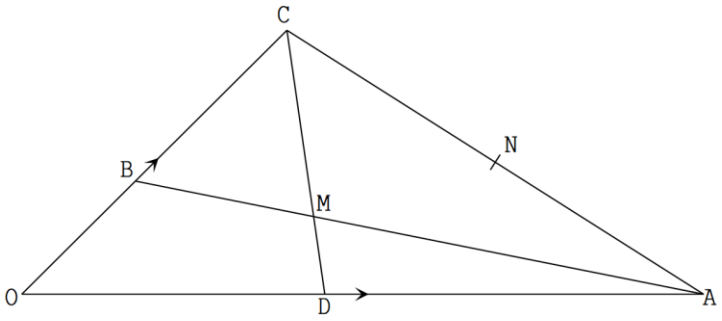
c) the surface area of the solid. **(3 marks)**

d) the mass of the solid if its density is $12.5g/cm^3$. **(2 marks)**

KCSE 23

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22. In the figure below $\vec{OB} = \underset{\sim}{b}; OC = 3\vec{OB}$ and $OA = \underset{\sim}{a}$



a) Given that $\overrightarrow{OD} = \frac{1}{3}\overrightarrow{OA}$ and $\overrightarrow{AN} = \frac{1}{2}\overrightarrow{AC}$, $\overrightarrow{CD}$ and $\overrightarrow{AB}$ meet at M. Determine in terms of $\underset{\sim}{a}$ and $\underset{\sim}{b}$.

i) $\vec{AB}$ **(1 mark)**

ii) $\vec{CD}$ **(1 mark)**

b) Given that $\vec{CM} = k\vec{CD}$ and $\vec{AM} = h\vec{AB}$. Determine the values of the scalars k and h. **(5 marks)**

c) Show that O, M and N are collinear. **(3 marks)**

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23. The displacement of a particle is given as $s = t^3 - 6t^2 + 9t + 50$ metres.

Determine;

a) The displacement of the particle when t = 2 seconds. **(2 marks)**

b) the velocity of the particle when t = 4 (**2 marks)**

c) the acceleration of the particle when t = 5. **(2 marks)**

d) the time when the particle is at rest. **(2 marks)**

e) the displacement during the 3rd second. **(2 marks)**

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24. The height of a number of students was recorded in the table below. Each measurement is given to the nearest cm.

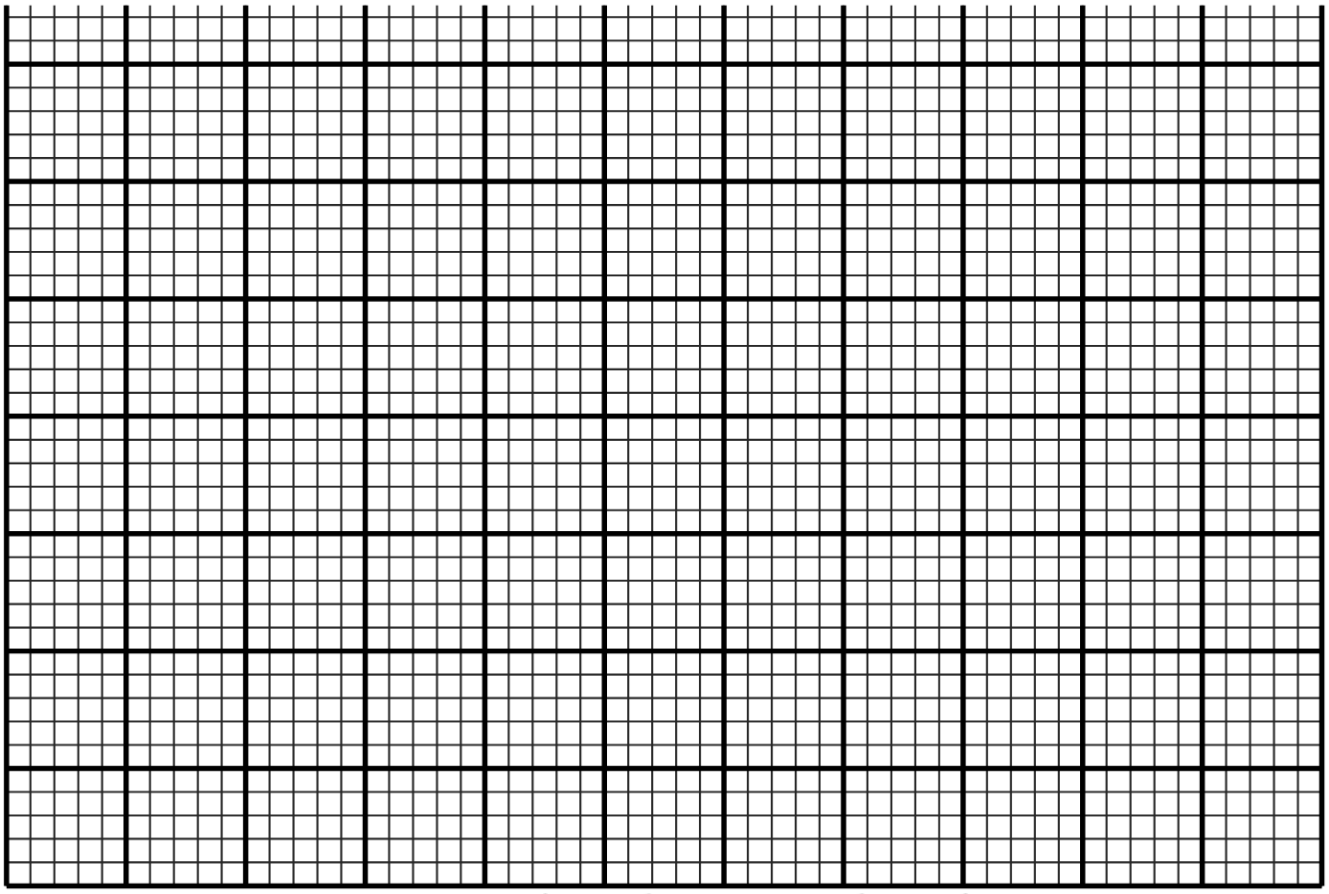
Height(cm)	Mid-point x	Frequency f	fx
138-142	140	3	420
143-147		8	
148-152		12	
153-157		20	
158-162	160	30	4800
163-167		14	
168-173		7	
173-177		4	
178-182	180	2	360
		$\sum f =$	$\sum fx =$

a) Complete the table. **(3 marks)**

b) Use the completed table to calculate the mean height of the students. **(2 marks)**

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c) Draw a histogram to represent the information. **(2 marks)**



d) Use the histogram above to estimate the median height**.** **(3 marks)**

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KCSE 2023 PREDICTION

POSSIBLE SERIES 1 EXAM

121/2

MATHEMATICS

PAPER 2

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES:

- *Write your **name**, **admission numbe**r and write **date** of examination in the spaces provided*
- *The paper contains **two** sections. Section I and Section II.*
- *Answer **ALL** the questions in section I and any **five** questions in section II.*
- *Answers and working **must** be written on the question paper in the spaces provided below each question.*
- *Show all steps in your calculations below each question.*
- *Marks may be given for correct working even if the answer is wrong.*
- *Non programmable silent electronic calculators and KNEC mathematical table may be used, except where stated otherwise.*

FOR EXAMINERS USE ONLY

SECTION I

Question	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	TOTAL
Marks																	

SECTION II

Question	17	18	19	20	21	22	23	24	TOTAL
Marks									

GRAND TOTAL

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SECTION I: 50 MARKS

ANSWER ALL QUESTIONS IN THIS SECTION

1. Solve for x in the equation

$2\sin^2 x - 1 = \cos^2 x + \sin x$ for $0 \leq x \leq 360$ **(3 Marks)**

2. (a) Expand $\left(1 + \frac{3}{x}\right)^5$ upto the fifth term **(2 Marks)**

(b) Hence use your expansion to evaluate the value of $(2.5)^5$ to 3 d.p. **(2 Marks)**

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3. Make p the subject of the formula **(3 Marks)**

$$E + m = m + \sqrt{\frac{p - 3u}{y - 3mp}}$$

4. A object A of area 10cm^2 is mapped onto its image B of area 60cm^2 by a transformation whose matrix is given by

P= $\begin{Bmatrix} x & 4 \\ 3 & x+3 \end{Bmatrix}$. Find the possible value of **(3 Marks)**

5. A variable Z varies directly as the square of X and inversely as the square root of Y. Find the percentage change in Z if X increased by 20% and Y decreased by 19% **(3 Marks)**

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6. A circle whose equation is $(x - 1)^2 + (y - k)^2 = 10$ passes through point (2,5). Find the coordinates of the two possible centres of the circle**.** **(3marks)**

7. Juma deposited Sh. 45 000 in a bank which paid interest at 12% p.a compounded monthly. Calculate the amount of interest after 3 years **(3 Marks)**

8. (a) Find the inverse of the matrix $\begin{pmatrix} 4 & 3 \\ 3 & 5 \end{pmatrix}$ **(1 Mark)**

(b) Hence solve the simultaneous equation below using matrix method **(3 Marks)**

$4x + 3y = 6$

$5y + 3x - 5 = 0$

9.

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10. Given that P=4+$\sqrt{2}$ and Q=2+$\sqrt{2}$ and that $\frac{P}{Q}$=a+b$\sqrt{c}$, where a, b and c are constants, find the values of a, b and c. **(3 marks)**

11. Find the value of x that satisfies the equation:

$log_3(x + 24) - 2 = log_3(9 - 2x)$ **(3 marks)**

12. Under a shear with x-axis invariant the point (3,2) is mapped onto (-2,2). Find the image of point (4,4) under the same transformation. (**3marks)**

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13. The data below shows the marks obtained by ten students in a test.

71, 55, 69, 45, 65, 57, 71, 82, 55, 50

Find the quartile deviations. **(3 marks)**

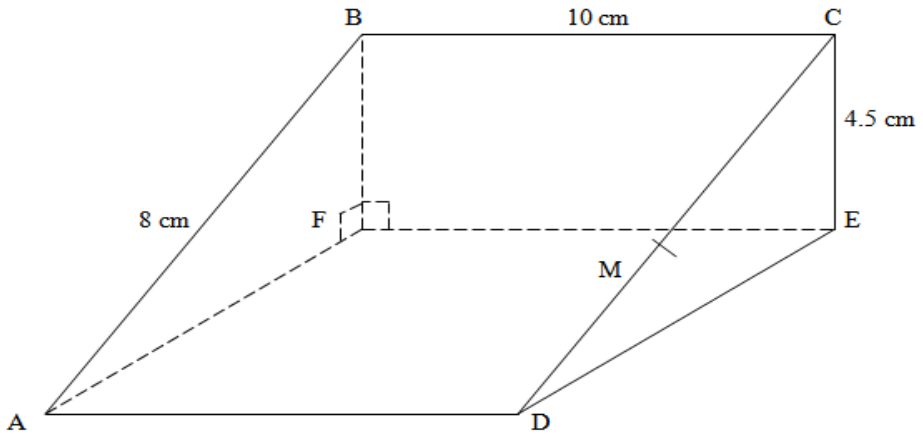
14. A bag contains 4 green, 9 purple and 18 blue balls. The balls are identical except for the colour. Two balls are picked at random, one at a time without replacement, find the probability that, a blue ball and a green ball are picked. **(3 marks)**

15. Find the equation of the tangent to the curve $y = x^2 + 2x + 3$ at the point where the gradient is equal to 4. **(3 marks)**

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16. The radius of a spherical ball is 2.5cm correct to one decimal place. Calculate the percentage error in calculating the surface area of the ball **(3 marks)**

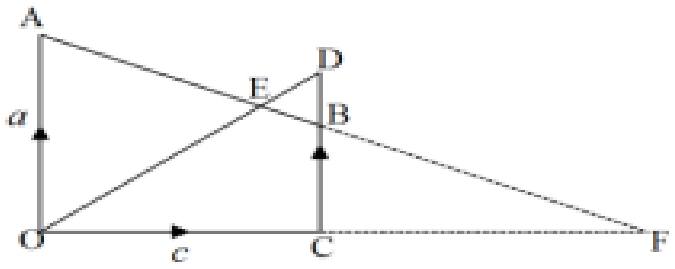
17. The above diagram represents a wooden prism. ABCD is a rectangle. Points E and F are directly below C and B respectively. M is the mid-point of CD. AB = 8 cm, BC = 10 cm and CE = 4.5 cm. Calculate the Angle CAE makes with the plane ADEF **(3marks)**



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SECTION II: 50 MARKS
ANSWER ANY 5 QUESTIONS IN THIS SECTION

18. In the figure below, $\boldsymbol{OA} = \tilde{a} and \boldsymbol{OC} = \tilde{c}$. $\boldsymbol{CB} = \frac{2}{3}\boldsymbol{OA}$ *and* $B divides\ CD\ in\ the\ ratio$ 3: 1



(a) Express the following vectors in terms of **a** and **c** only:

(i) **AB** **(1 mark)**

(ii) **OD** **(2 marks)**

(b) Given that **OE**=h**OD** and **AE**=k**AB** where h and k are scalars express OE in two different ways hence find the scalars h and k. **(5 marks)**

(c) If OC produced meets AB produced at F, find **OF** . **(3 marks)**

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19. (a) The 5th term of an AP is 82 and the 12th term is 103. find:

(i) the first term and common difference. **(3marks)**

(ii) the sum of the 21 terms. **(2 marks)**

(b) A stair case was built such that each subsequent stair has a uniform difference in height. The height of the 6th stair from the horizontal floor was 85 cm and the height of the 10th stair was 145. Calculate the height of the 1st stair and the uniform difference in height of the stairs.

(3 marks)

(c) During the construction of the staircase, each step was supported by a vertical piece of timber. If the staircase has 11 stairs, calculate the total length of timber used. **(2 marks)**

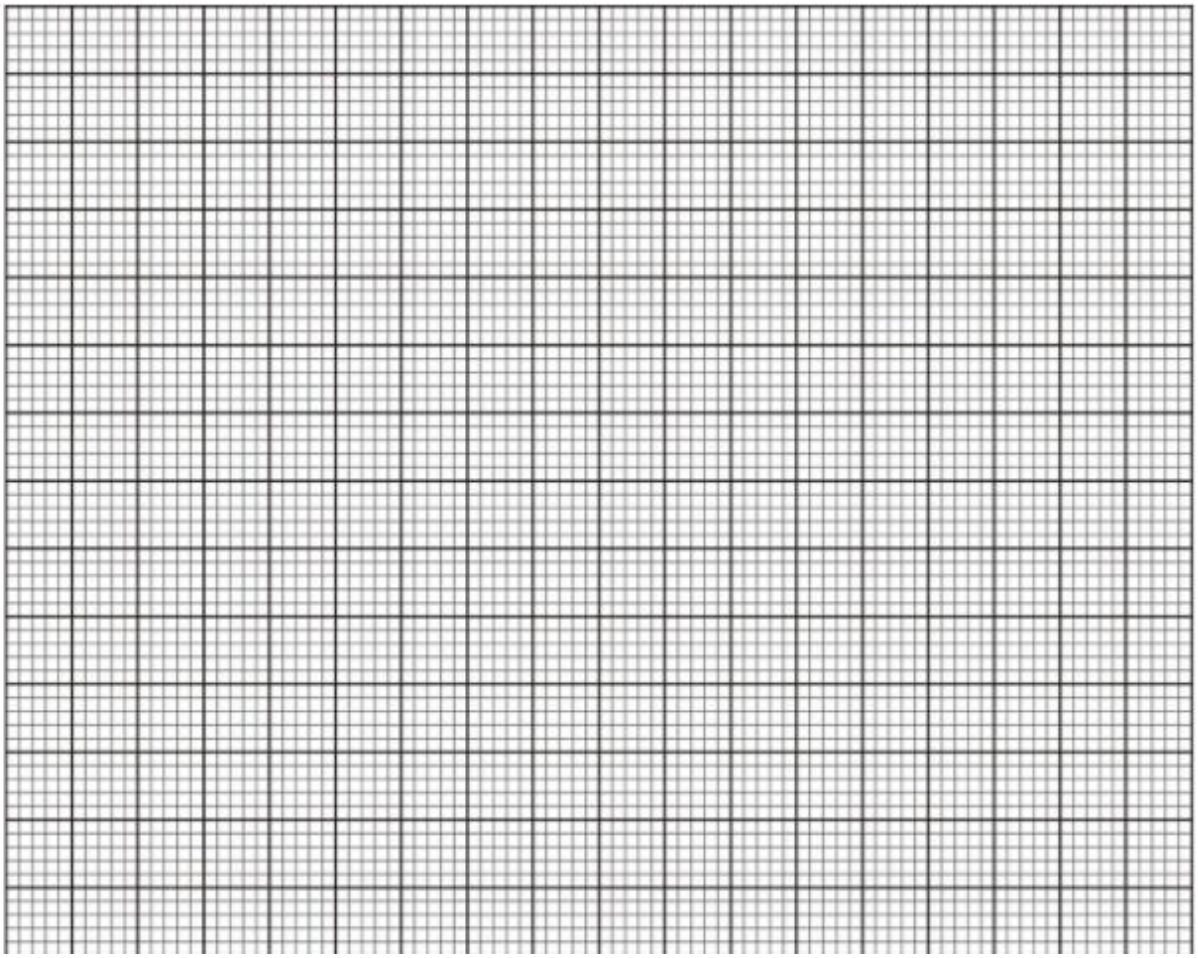
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19.(a) Complete the table below given that $y = -x^2 + x + 12$ for $-4 \leq x \leq 5$ **(2 marks)**

X	-4	-3	-2	-1	0	1	2	3	4	5
Y	8				12	12				

(b) On the grid provided below, draw the graph of $y = -x^2 + x + 12$ for $-4 \leq x \leq 5$

Scale: 1 cm represents 1 unit on the x – axis and 1 cm represents 2 units on the y – axis. **(4 marks)**



(c)Using your graph, to Solve the equation $\boldsymbol{x^2 - 3x - 10 = 0}$ **(2 marks)**

ii. State the range of values of x for which $-x^2 + x + 12 \geq 0$ **(1 mark)**

(d) Estimate the coordinates of the turning point of the curve $y = -x^2 + x + 12$ **(1 mark)**

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20.An aircraft leaves town $P(30^{\circ}S, 17^{\circ}E)$and moves directly to town $Q(60^{\circ}N, 17^{\circ}E)$. It then moved at an average speed of 300 knots for 8 hours westwards to town R. Determine;

(a) The distance PQ in nautical miles. **(3 marks)**

(b) The position of town R. **(3 marks)**

(c) The local time at R if the local time at Q is 3:15 p.m **(2 marks)**

(d) The total distance moved from P to R in km. Take 1nm=1.853 km **(2 marks)**

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21. Using a ruler and compasses only.

(i) Construct a parallelogram ABCD such that AB = 10cm, BC = 7cm and angle ABC = 105º.

(3 marks)

KCSE 23

(ii) Construct the loci of P and Q within the parallelogram such that 6cm. $AP \leq 4cm$ and $BQ \leq 6cm$

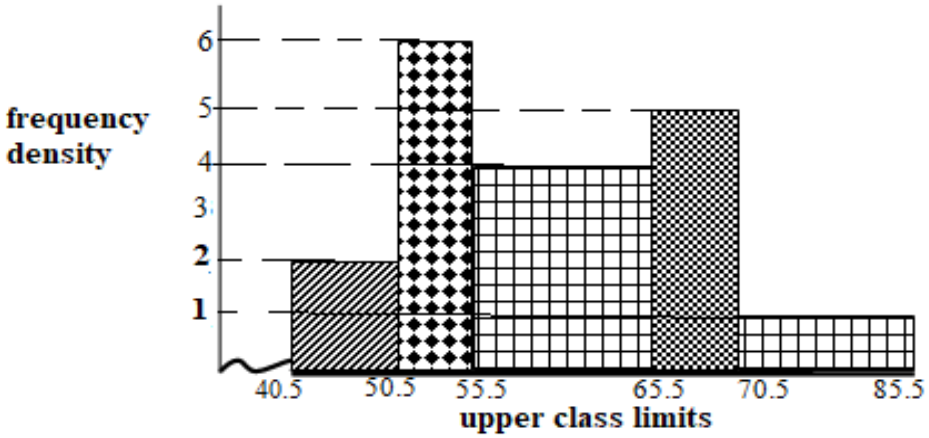
(3 marks)

(iii) Calculate the area within the parallelogram but outside regions bounded by the loci of P and Q.

(4 marks)

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22. Below is the histogram representing marks obtained in Mathematics test



(a) Develop a frequency distribution table for the data **(3 Marks)**

(b) Using an assumed mean of 60.5 find the mean. **(3 marks)**

(c) Calculate Standard deviation. **(4marks)**

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23. (a) Use the mid ordinate rule with 5 strips to estimate the area bounded by the curve $y = x^2 - 3x - 4, x = -2, x = 3$ and $x - axis$ **(3 marks)**

(b) Calculate the exact area above **(5 marks)**

(c) Find the percentage error involve in using the mid-ordinate role. **(2 marks)**

KCSE 23

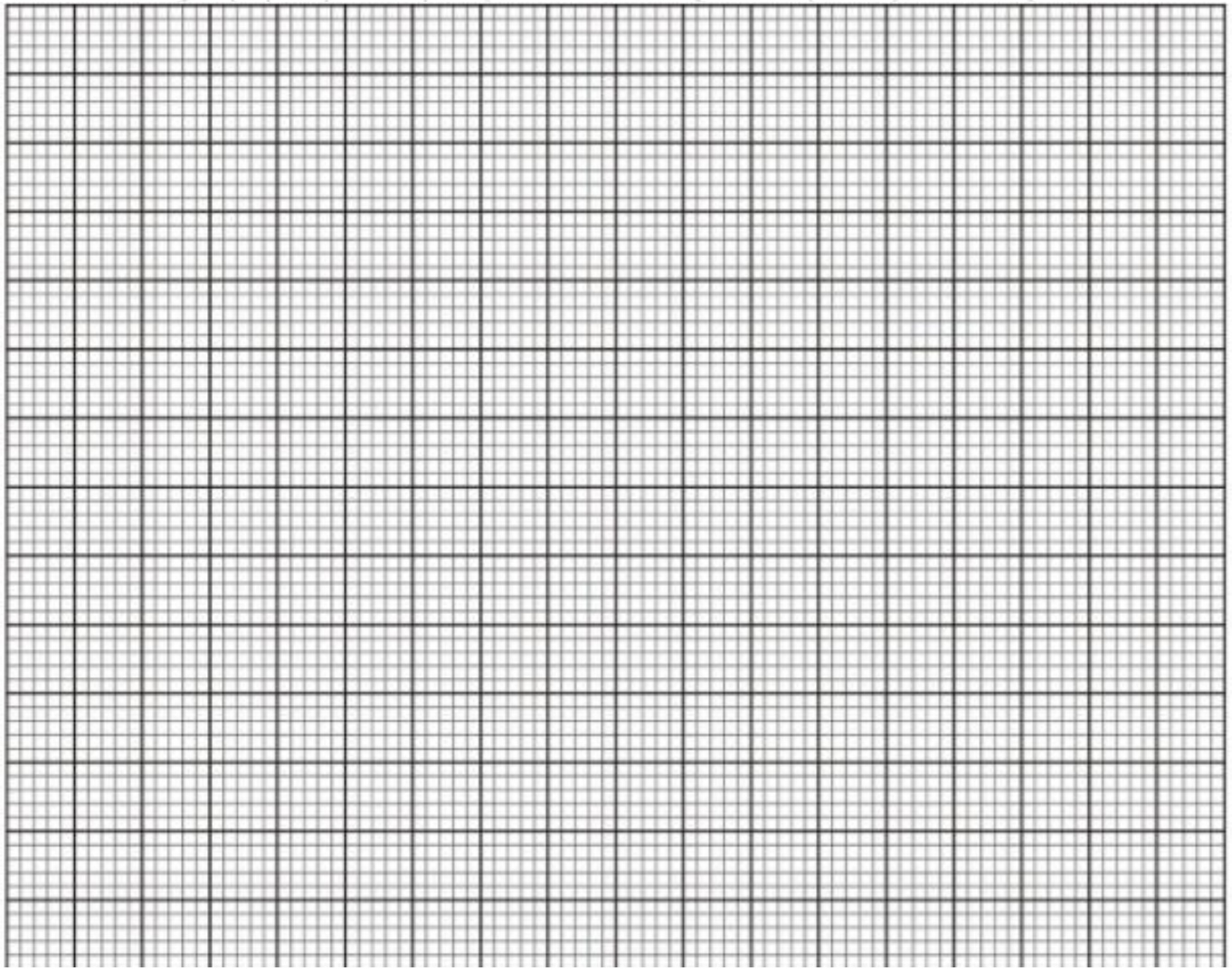
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24.

25. Eldoret Airport is planning to build a fire fighting plant on a space of $250m^2$. Two types of machines are to be installed, machine x which occupies a space of $5m^2$ and machine Y which occupies $10m^2$. The airport can have a maximum of 40 machines at a time. At most 15 machines of type Y are used at any given time.

a) Write down three inequalities other than $x>0$, and $y>0$. **(3marks)**

b) On the grid below, show the region satisfying the given conditions. **(4marks)**



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c) The profit from a type x machine is Ksh 1000 and that of type y is Ksh 4000. Use the graph to obtain the number of machines of each type that should be installed to obtain maximum profit. Calculate the maximum profit. (3marks)

KCSE 23

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KCSE 2023 PREDICTION

POSSIBLE SERIES 1 EXAM

451/1

COMPUTER STUDIES

PAPER 1

(THEORY)

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

- Answer **ALL** the questions in **section A**
- Answer **question 16 (compulsory)** and **ANY OTHER THREE questions** from **section B.**

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Question	Maximum score	Actual score
1-16		
17		
18		
19		
20		
TOTAL SCORE		

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SECTION A: (40 MARKS)

Answer **ALL** *questions in the spaces provided*

1. i) Explain the *emerging trends* in microcomputer technology in relation to Size **(1 mark)**

……

……

ii) Mention ***two*** Analogue devices **(2 marks)**

……

……

2. i) Identify and briefly describe **three** advantages of using computers in banking **(1½ marks)**

……

……

……

……

……

ii) State **two** advantages of using a mouse instead of a keyboard**.** **(1 mark)**

……

……

3. State two reasons why Magnetic tapes are not commonly used as computer data storage medium today **(1 mark)**

……

……

4. i) Give **two** advantages of the higher number of pixels per square centimeter. **(1 mark)**

……

……

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ii) Differentiate between *Data interface cable* and *power cable.* (**1 mark)**

……

……

……

iii) Explain **two** differences between *serial* and *parallel* communication ports of a computer.**(2 mks)**

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5. i) What is *line spacing* as used in word processing? **(½ mark)**

……

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ii) Describe any **two** line spacing specification used in Microsoft Word. **(1 mark)**

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iii) Name the ***two*** documents used in mail merge. **(1 mark)**

……

……

iv). With reference to the concept of graphics as used in Microsoft word. Explain the *difference* between object linking and embedding? **(1 mark)**

……

……

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6. Who am I**?** **(3 marks)**

i) Am is skilled in software/program development as per requirement and technical operations of computer hardware. I also develop and update both system and application software together with the associated documentations.

……

ii) Am is skilled in designing computer hardware and also improves on existing ones.

……

i**ii)** I maintain, update & modify information on the websites to meet new demands by the users. I also monitor the access & use of internet connection by enforcing security measures

……

7. During the COVID 19 pandemic, the government advised the citizens to use electronic funds transfer and other popular mobile phone money transactions to make payments.

i) State *how* the above method of conducting business would help to curb on the spread of the disease**.** **(2 marks)**

……

……

……

ii) What is the meaning of *Electronic Funds Transfer*? **(1mk)**

……

……

8. Define the term *dual booting* as used in computing. **(1 mark)**

……

……

9. Differentiate between *cropping* and *grouping*. **(2 marks)**

……

……

……

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10. Other than flow chart, state **two** tools that can be used to present an algorithm. **(2 marks)**

……

……

11. Differentiate between a *deadlock* and *interrupt* as used in operating system. **(2 marks)**

……

……

……

12. (a) Securem is a company that deals with providing security services to its clients. Name any ***two*** ways the company can protect its computer network from hackers. **(2 marks)**

……

……

(b) State **three** characteristics of a suitable password. **(3 marks)**

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13. During system development the system analyst should consider the correct requirement specifications for the new system. State any **four** outcomes that may result from using incorrect requirement specifications. **(3 marks)**

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14. (a) Define the term *Computer Aided Design*. **(1 mark)**

……

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(b) List **two** advantages of using Computer Aided Design. **(2 marks)**

……

……

15. Explain **two** arithmetic errors that may occur during computerised data processing.**(2 marks)**

……

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SECTION B (60 marks)

Answer q**uestion 16** and **ANY OTHER THREE** questions from this section in the spaces provided.

16. (a) Give **two** examples of syntax errors in programming. **(2 marks)**

……

……

(b)Scrabble™ is a word game where the players are awarded points by creating words from a combination of letters each of which carry a different point value. A player is awarded the points for creating words from the combination. Write a ***pseudocode using CASE*** to read a letter and output the value equivalent to that letter from the following table. **(8 marks)**

LETTER	VALUE
A,E,I,L,N,O,R,S,T,U	1
D,G	2
B,C,M,P	3
F,H,V,W,Y	4
K	5
J,X	8
Z,Q	10

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(c) Classify the following programming languages according to their category: **(3 marks)**

Programming language	Category
HTML	
JAVA	
JAVASCRIPT	
PASCAL	
VISUAL BASIC	
LISP	

(d) With aid of a diagram, explain the "Repeat Until" construct as used in structured programming **(2 marks)**

17. (a) State the **stage** in system development life cycle where each of the following activities are carried out:

i. Identifying shortcomings of a system. **(1 mark)**

……

ii. Preparing the system migration plan **(1 mark)**

……

iii. Identifying the technologies that may be used in the proposed system. **(1 mark)**

……

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(b) State **three** roles of a programmer in system development life cycle. **(3 marks)**

……

……

……

(c) E-mail technology has become a very important part of today's communication. Explain any **three** problems associated with using e-mail technology for communication. **(6 marks)**

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(d) Sarafina wants to download her favourite movie from YouTube. State any three factors that may determine how long it will take her to complete the download. **(3 marks)**

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18. The following Digital Club Member details were to be entered in a database: Name, Date of registration, Registration fee and Class.

(a) Prepare a suitable structure showing field names and their field types **(4 marks)**

Field	Data type
Name	Text
Date of registration	Date
Registration fee	Currency or Number
Class	Text

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(b) Name one other field that the Club Patron may need to add to uniquely identify the records

(1 mark)

……

(c) Write the statement that can be used to select members of the class form 3. (2 marks)

	Name	Date of registration	Registration fee	Class
Criteria/ Expression				

(d) The following is an extract from a spreadsheet created to manage sales. Use it to answer the questions that follow.

	A	B	C	D
1	ITEM NAME	UNIT PRICE	UNITS SOLD	
2	HDD 300 GB	7,500	2	
3	Optical Drive	4,500	8	
4	DELL Latitude core i5	44,500	3	
5	DDR4 8GB RAM	10,000	4	
6	Lenovo Yoga Smart Tab	28,953	1	

(i) Write a formula that will compute the number of items whose unit price whose price more than 10,000 **(3 marks)**

……

……

……

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(ii) If the formula =$B2*C$2 was placed in D2, state the output if copied to D3. **(2 marks)**

……

……

……

(iii) Write the cell referencing used in c(ii) above. **(1 mark)**

……

(iv) Write the data type that is stored in cell C5 and A6 respectively **(2 marks)**

……

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19. a) Define the term attenuation as used in networking and data communication. **(1 mark)**

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……

b) The following are figures of networking cables. Identify each. **(2 marks)**



Figure 1

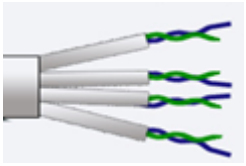


Figure 2

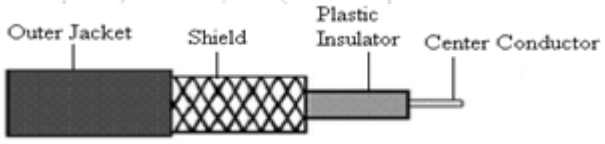


Figure 3

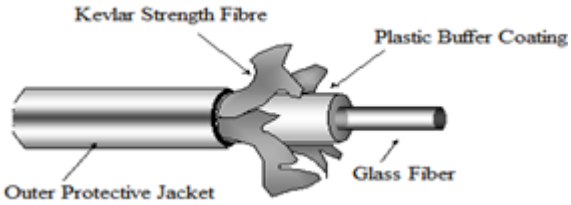


Figure 4

Figure 1 **Figure 2**

Figure 3 **Figure 4**

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c) (i) Give **two** examples of network software **(2 marks)**

……

……

(ii) In a network setup, list any **two** items that may be referred to as data terminal equipment.
(2 marks)

……

……

……

d) Explain the following terms as used in networking **(4 marks)**

(i) Remote Communication

……

……

……

(ii) Distributed processing

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……

e) State **four** functions of a server in a network **(4 marks)**

……

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……

……

20. (a) Determine the binary equivalent of the octal number 253243. **(2 marks)**

……

……

……

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(b) Carry out the following binary arithmetic using *ones complement*. In each case leave your answer in ***base 10***.

(i) 10_{10}-10_8 **(5 marks)**

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(i) 2BH-9H **(6 marks)**

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(c) Arrange the following numbers in ascending order. **(2 marks)**

10_{16}, 10_{10}, 15_8, 1011_2

.....

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KCSE 2023 PREDICTION

POSSIBLE SERIES 1 EXAM

451/2

COMPUTER STUDIES

PAPER 2

(Practical)

TIME: 2½ HOURS

NAME……

SCHOOL…… **SIGN**……

INDEX NO…… **ADM NO**……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

- ***i.*** *Indicate your name and index number at the right hand corner of each printout*
- ***ii.*** *Write your name and index number on the CD/removable storage medium provided*
- ***iii.*** *Write the name and version of the software used for each question attempted in the answer sheet provided*
- ***iv.*** *Answer all the questions, All questions carry equal marks*
- ***v.*** *Passwords should not be used while saving in the CD/removable storage Medium*
- ***vi.*** *Marked printout of the answers on the sheet*
- ***vii.*** *Hand in all the printouts and the CD/removable storage medium used.*

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QUESTION	MAX SCORE	SCORE
ONE	50	
TWO	50	
TOTAL	**100**	

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1. Matrix Enterprise invited schools for an annual software development contest. The following is a standard letter inviting schools for the contest.

MATRIX ENTERPRISE

Software Developers

27TH MARCH 2022

Dear Sir/Madam

RE: INTERSCHOOL ANNUAL SOFTWARE DEVELOPMENT CONTEST

I e are pleased to invite your school for the **2022** edition of the **Annual software Development contest** to be held on May16th 2022 in our auditorium.

The contest will involve the following four (4) areas and each school is expected to pay participation fee as shown below per area.

Schools are encouraged to participate in many areas as much as possible. The best school will be awarded based on the cumulative marks from each area. Awards such as laptops, tablets, scholarships and cash prizes will be provided by Safaricom in conjunction with the sponsoring universities and other affiliated ICT Tech companies,

Participation Fee			
Area	**UNITS**	**COST**	**TOTAL COST**
Scratch programming	**10**	**2500**	
General ICT Knowledge	**5**	**2000**	
Binary coded arithmetic	**6**	**2800**	
Online gaming	**9**	**2000**	
Total Amount			

Note: A school can register as many developers per area.

Yours Sincerely

Peter Conrad

Master developer & Coordinator

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(a) Using word processor prepare the document as it appears and saves it as **Matrix 1** (22 marks)

(b) Set the working area as follows:

i) Page margins as follows: **(4 marks)**

- Top : 0.5" (1.27) cm
- Bottom: 0.5" (1.27) cm
- Gutter: 0.2" (0.51) cm

ii) Paper Size : A4 **(1 mark)**

(c) Format the heading "**MATRIX ENTERPRISE**" as follows: **(3 marks)**

- Alignment: Centre
- Font size: 36
- Font type: Algerian

(d) Insert header "Your name and Index number" **(2 marks)**

(e) Apply the following to the paragraph starting with "*The contest will involve the....*"

- First line indent By 1.2 (4.7"). **(2 marks)**
- Line spacing to 1.2 **(1 mark)**

(f) Format the text "**interschool annual software development contest**" as follows: **(3 marks)**

- Apply shadow
- **Font type**: Calibri
- Shade the text with any color

(g) Spell check your work **(1 mark)**

(h) Save the document as **Matrix II** **(1 mark)**

(i) Insert page numbering at the bottom center of each page. **(1 mark)**

(j) Compute the **total cost** for each area and the **total amount** in the table. **(2 marks)**

(k) Apply bullets to the list in the table. **(2 marks)**

(l) Convert all the text from the paragraph starting with "*Schools are encouraged to participate ….*" into two columns of the same width and height, with a line between the columns. **(3 marks)**

(m) Print the following: **(2 marks)**

(i) Matrix I

(ii) Matrix II

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2. Due to the government directive on registration of all inhabitants of a country. County school directors were deployed to various schools within the Country. The worksheet below is a sample of the NEMIS registration data across the schools in Uasin Gishu County.

SCHOOL	**REGISTERED POPULATION**		**TARGET POPULATION**	**NON-REGISTERED**	**REG. FEES (shs)**
	MALE	FEMALE			
Jamboni	200,000	150,000	600,000		500
Sacho	230,000	312,000	457,000		700
Moi	450,000	352,252	1320,254		800
Kokwet	258,368	122,356	658,870		790
Rabai	325,620	104,520	700,658		450
Chepkube	123,863	80,588	325,789		700
Kabarak	136,222	150,520	356,102		450
Mbooni	253,666	210,000	492,250		250
Karo	253,666	213,650	700,000		400
TOTAL					
AVERAGE					

(a) Create a workbook to store information and save it as **NEMIS** in worksheet 1. (10 marks)

(b) Create a duplicate copy of Sheet1 and Paste it in sheet 2 ,rename worksheet 2 as **NEMIS 1** (1 mark)

(c) Use a formulae/function to compute:

(i) Non registered students per school **(3 marks)**

(ii) Introduce a new column called percentage **'(%) REGISTERED'** and use it to calculate percentage of registered students per school to 2 decimal places. **(5 marks)**

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(d) Insert a new column after the registration fee and name it as **REMARKS**. Use the IF function to declare the following remarks about the % registered per school. (6 marks)

"Above expectation" Above 90%

"Met Expectations" 70% - 89%

"Below Expectations" 20 % - 79%

" Report to The Office" < 20%

(e) Use a function count the number of schools whose **% REGISTERED** is:

(i) Below expectations in cell **G18** **(2 marks)**

(ii) Use the function to fill the totals and averages in the table **(2 marks)**

(f) Format the workbook as follows

(i) Bold the titles and center it across the page in a merged cell and Times New Roman. (2 marks)

(ii) Apply border to a blank cell in the worksheet as follows

- ✓ Double line for the outer border,
- ✓ Dotted lines for the horizontal inside border
- ✓ Dashed lines for the vertical inside border. **(3 marks)**

(iii) Format the registration fees to Kshs. and give the sum of the registration fees **(2 marks)**

(g) Copy the entire **NEMIS 1** worksheet to a blank sheet and rename the new sheet as **NATIONAL NEMIS.** **(2 marks)**

(h) Design a bar graph of showing a comparison of both genders in all schools. Label the chart appropriately. Save it as **CHART**. **(5 marks)**

(i) Insert your name, date and index number as a header in each worksheet. Insert your class as a footer. **(4 marks)**

(j) Print **NEMIS 1**, **NATIONAL NEMIS** and **CHART** **(3 marks)**

THIS IS THE LAST PRINTED PAGE

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KCSE 2023 PREDICTION

POSSIBLE SERIES 1 EXAM

441/1

HOME SCIENCE

PAPER 1

(Theory)

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO STUDENTS

a) *This paper consists of **three** sections: **A**, **B** and **C***

b) *Answer **all** the questions in sections **A** and **B** and any **two** questions in section **C***

c) ***Candidates should answer the questions in English***

For examiner's use only

Section	Question	Maximum Score	Student's Score
A	1- 18	40	
B	19	20	
C	20	20	
	21	20	
TOTAL SCORE		**100**	

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SECTION A (40 MARKS)

Answer ALL the questions in this section in the spaces provided.

1. State any four methods of purifying water for use in the home. **(2 marks)**

……

……

……

……

2. Identify two principles of food preservation used in bottling and canning. **(2 marks)**

……

……

3. State two importance of growth monitoring and promotion at the post natal clinic. **(2 marks)**

……

……

4. Give four ways of improving abrassives. **(2 marks)**

……

……

……

……

5. Identify two challenges of a vegetarian diet. **(2 marks)**

……

……

6. State two ways of managing varicose veins in pregnancy. **(2 marks)**

……

……

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7. Distinguish between direct and semi-direct lighting techniques. **(2 marks)**

……

……

……

8. State two methods of managing fullness that are mainly functional. **(2 marks)**

……

……

9. Give two benefits of preparing a shopping list. **(2 marks)**

……

……

10. State two reasons why a child suffering from scurvy may also be anaemic. **(2 marks)**

……

……

11. Give two reasons why consumers should avoid skin products that contain mercury. **(2 marks)**

……

……

……

12. Give two reasons why too early weaning of the baby is not recommended. **(2 marks)**

……

……

13. Identify two points considered when marking covers at the dining table. **(2 marks)**

……

……

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14. State two precautions to take when using rechauffe dishes. **(2marks)**

……

……

15. State two advantages of a well-planned kitchen area. **(2 marks)**

……

……

16. State two uses of a colander. **(2 marks)**

……

……

17. State two reasons why excess weight gain during pregnancy is not recommended. **(2 marks)**

……

……

18. Give two ways of conserving fuel when cooking. **(2 marks)**

……

……

19. State two reasons for food fortification. **(2 marks)**

……

……

20. Mention two processes that must be completed before attaching a waist band. **(2 marks)**

……

……

……

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SECTION B (20 MARKS)

COMPULSORY QUESTIONS

21. You are preparing to host your sister's graduation party. Describe the correct procedure you will use to thorough:

a) Clean the oil painted wall of your living room. **(11 marks)**

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b) Clean the china mug you will give her as a gift. **(5 marks)**

……

……

……

……

……

……

c) Finish a silk scarf to be used in the occasion. **(4 marks)**

……

……

……

……

……

SECTION C (40 MARKS)

Answer any TWO questions in this section.

22. a) State and explain four factors that determine repair methods used on a garment. **(8 marks)**

b) Define term anorexia nervosa. State any three of the signs and symptoms. **(4 marks)**

c) Describe the correct procedure of threading the upper thread on the sewing machine. **(4 marks)**

d) Outline the function of the following sewing tools. **(4 marks)**

i) Bodkin
ii) Stilleto
iii) Meter stick
iii) Measuring gauge

23. a) State any four physical changes in the body of the sick that may require immediate medical attention. **(4 marks)**

b) Outline four factors to consider to ensure effective baking of food. **(4 marks)**

c) State and explain four methods of sterilizing clothes of the sick. **(8 marks)**

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d) State four reasons for increasing popularity of acrylics for school sweater. **(4 marks)**

24. a) Outline four qualities to look choosing flowers for arrangement. **(4 marks)**

b) Outline four causes of cracked nipple in breastfeeding. **(4 marks)**

c) State any four types of child play and for each, outline the aspect of development it promotes. **(8 marks)**

d) State four importance of table setting. **(4 marks)**

THIS IS THE LAST PRINTED PAGE

KCSE 23

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KCSE 2023 PREDICTION

POSSIBLE SERIES 1 EXAM

441/2

HOME SCIENCE

PAPER 2

TIME: 2½ HOURS

SCHOOL…… SIGN……

Kenya Certificate of Secondary Education.

441/2 - HOME SCIENCE - Paper 2

(Clothing Construction - Practical)

CONFIDENTIAL

INSTRUCTIONS TO SCHOOL

The following materials to be provided by the school:

1. Plain light weight cotton fabrics 70cm long by 90cm wide
2. Sewing thread to match the fabric

FABRIC IN EXCESS OF THE AMOUNT SPECIFIED MUST NOT BE SUPPLIED TO THE CANDIDATES

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KCSE 2023 PREDICTION

POSSIBLE SERIES 1 EXAM

441/2

HOME SCIENCE

PAPER 2

TIME: 2½ HOURS

NAME……

SCHOOL…… **SIGN**……

INDEX NO…… **ADM NO**……

Kenya Certificate of Secondary Education.

(Clothing Construction - Practical)

Instructions to candidates

(a) *Write your name, admission number and class in the spaces provided above.*

(b) *Answer* ***ALL*** *questions in this paper.*

(c) This paper consists of 4 printed pages.

Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

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A pattern of a child's dress is provided. You are advised to study the sketches, the question paper and the layout carefully before you begin the test

MATERIALS PROVIDED

1. Pattern pieces

A. Dress Front
B. Dress Back
C. Sleeve
D. Sleeve binding and ties
E. Sleeve opening facing
F. Front neck facing
G. Back neck facing

2. Plain light weight cotton fabric 70cm long by 90cm wide
3. Sewing thread to match fabric
4. One large envelope

THE TEST

Using the materials provided, cut out and make up the **RIGHT HALF** of the child's dress to show the following:-

a) Cutting cut **(18 marks)**

b) Making of the front dart **(8 marks)**

c) Attaching the back yoke to the dress back using overlaid seam. Neaten half of the seam using overcasting stitches. **(6 marks)**

d) Joining of the shoulder seam using fell/double stitched seam. **(9 marks)**

e) Joining the side seam suing the French seam **(7 marks)**

f) Preparing and attaching the sleeve **(28 marks)**

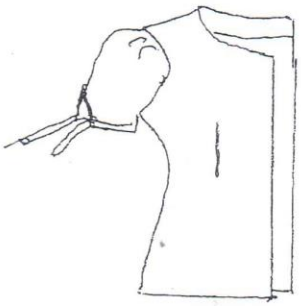
i. Work the gathers on the crown (do not remove)
ii. Joining the under seam using a French seam
iii. Working a faced-slit opening on the sleeve
iv. Attaching the binding and holding it using slip hemming. Hold the tie using even tacking
v. Attaching the sleeve onto the garment (do not trim or neaten)

g) Attaching the facing of the neckline **(8 marks)**

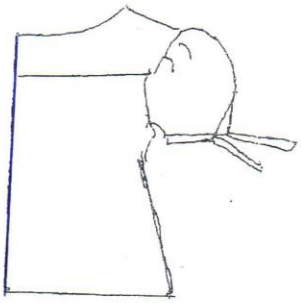
h) Presentation **(6 marks)**

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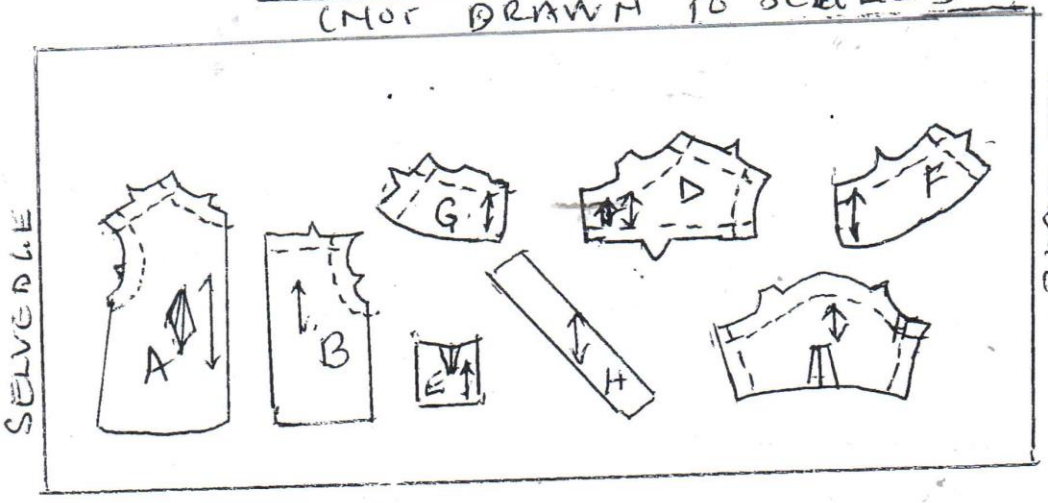
FRONT VIEW



BACK VIEW



PATTERN LAYOUT
(NOT DRAWN TO SCALE)



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KCSE 2023 PREDICTION

POSSIBLE SERIES 1 EXAM

441/3

HOME SCIENCE

PAPER 3

TIME: 1¼ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

(Food and Nutrition)

Practical session: **1¼ hours**

Planning test session: **30 minutes**

INSTRUCTIONS TO CANDIDATES

a) Read the test carefully.

b) Write your name and index number on every sheet of paper used.

c) Textbooks and recipes may be used during the planning session as reference materials.

d) You will be expected to keep to your order of work during the practical session.

e) You are only allowed to take away your reference materials at the end of the planning session.

f) You are not allowed to bring additional notes to the practical session.

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QUESTION

THE TEST

You are intending to visit your elder sister during the holiday

Using the ingredients listed below prepare, cook and serve one course meal and nutritious drink for both of you.

Ingredients

- Potatoes /rice / maize flour
- Green grams / beef / beans
- Green leafy vegetables / cabbage
- Carrots
- Tomatoes
- Green pepper
- Onions
- Salt
- Sugar
- Spices
- Cooking oil / fat
- Fruits in season
- Milk

PLANNING SESSION: 30 MINUTES

Use separate sheets of paper for each task listed below and use carbon paper to make duplicate copies then proceed as follows;

(i) Identify the dishes and write down their recipes

(ii) Write down your order of work

(iii) Make a list of food stuffs and equipments you will require

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KCSE 2023 PREDICTION

POSSIBLE SERIES 1 EXAM

314/1

ISLAMIC RELIGIOUS EDUCATION

PAPER 1

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

- *Write your name and admission number in the spaces provided above.*
- *This paper consists of six questions.*
- *Answer any **FIVE** questions in the answer sheet provided*
- *Each Question carries 20 marks*

Questions No.	1	2	3	4	5	6	GRAND TOTAL
Marks							

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*Answer any **FIVE** questions in the answer sheet provided*

1. a) Highlight the lessons derived from the first portion of revelation of the Quran. **(6 marks)**

b) Discuss the rationale for the narratives of the prophets in the Holy Quran. **(6 marks)**

c) State the modern ways adapted in teaching the Quran. **(8 marks)**

2. a) Discuss any four differences between the Mas-haf of Abubakar and that of Uthman. **(8 marks)**

b) Outline the significance of reciting ayatul Kursy. **(6 marks)**

c) Explain how a Muslim can modify his life according to Suratul Hujurat. **(6 marks)**

3. a) State any **five** Shia collections of Hadith **(5 marks)**

b) Give reasons why the fourth period of Hadith collection is regarded as the Golden age of Hadith collection. **(8 marks)**

c) The prophet (S.A.W) said "looking for a lawful earning is an obligatory act next to obligatory worship. With reference to the Hadith explain how Muslims can eradicate poverty in the society. **(7 marks)**

4. a) Discuss the relevance of punishment according to Shariah law. **(8 marks)**

b) Outline the features of a Juma'a prayer. **(6 marks)**

c) Mention six main activities of Hajj. **(6 marks)**

5. a) Discuss the relevance of the sunnah acts observed during the month of Ramadhan. **(7 marks)**

b) Highlight **five** ways of asking for tawbah **(5marks)**

c) Discuss the challenges of Zakat collection in Kenya **(8 marks)**

6. a) Give the rationale of forbidding Shirk in Islam **(7 marks)**

b) Discuss any **four** stages that a Muslim passes through immediately after death **(8 mks)**

c) Explain the incident of Ghadir Khum according to Shia belief **(5 marks)**

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KCSE 2023 PREDICTION

POSSIBLE SERIES 1 EXAM

314/2

ISLAMIC RELIGIOUS EDUCATION

PAPER 2

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

- *Write your name and admission number in the spaces provided above.*
- *This paper consists of six questions.*
- *Answer any **FIVE** questions in the answer sheet provided*
- *Each Question carries 20 marks*

Questions No.	1	2	3	4	5	6	GRAND TOTAL
Marks							

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*Answer any **FIVE** questions*

1. (a) Discuss the rationale behind prohibition of abortion in Islam. **(5marks)**

(**b)**Give **seven** significances of the Islamic dress code. **(7marks)**

(c) Highlight effects of sexual perversion in the society. **(8marks)**

2. (a) Explain the importance of *eddat* . **(8marks)**

(b) Mention **Seven** forms of child Abuse prevalent in kenya. **(7marks)**

(c) Outline **five** illegitimate sources of earnings in Islam. **(5marks)**

3. (a)Describe **five** ways through which Muslims can assist in the eradication of corruption. **(10marks)**

(b)What roles can parents play to ensure proper upbringing of their children? **(6marks)**

(c) Identify **four** conditions to be fulfilled be the administration of the estate of the deceased Muslims. **(4marks)**

4. (a) Describe **seven** lessons that a Muslims youth can learn from the Ten Rules of Conduct of Imam Al Ghazali. **(8marks)**

(b) State the reforms brought by *Uthman Dan Fodio* under the *Sokoto Caliphate.* **(6marks**

(c) Identify the contributions of *Sheikh Abdalla Swaleh Al-Farsy* to *the* growth of Islam in East Africa. **(6marks)**

5. (a) Describe the lessons that Muslims can learn from the prophet's Farewell speech.**(8mks)**

(b) Outline the Circumstances that led to the boycott of *Banu Hashim.* (**6marks)**

(c) State **six** achievements of *Caliph Uthman (R.A).* **(6marks)**

6. (a) Describe **four** achievements of *Abdulmalik Bin Marwan* of the *Ummayyad* dynasty. **(8marks)**

(b) Why is *Abbasid era* considered as the Golden Age of Islamic civilization. **(7marks)**

(c) Highlight the importance of the treaty *Hudaibbiyya* to Muslims. **(5marks)**

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KCSE 2023 PREDICTION

POSSIBLE SERIES 1 EXAM

501/1

FRENCH

PAPER 1

TIME: 2½ HOURS

SCHOOL…… SIGN……

Kenya Certificate of Secondary Education.

FRENCH PAPER 1CONFIDENTIAL

CHECK ON THAT LINK, GO TO KCSE 2023 PREDICTION SERIES 1 UNDER FRENCH AUDIOS

https://drive.google.com/drive/folders/1mLLQq9MOaQNivU5I1K85WtcZUuhpWH19?usp=drive_link

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KCSE 2023 PREDICTION

POSSIBLE SERIES 1 EXAM

501/1

FRENCH

PAPER 1

(Listening Comprehension, Dictation and Creative Writing

TIME: 2 HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

- *This paper has **Three** Sections.*
- *In Section I you will have five minutes to read through the questions before the test starts. Before answering the questions, you will listen to several recorded passages on a tape. For each passage you will answer questions as indicated to you on the tape.*
- *In Section II you will listen to recorded materials once and start writing during the second listening.*
- *In Section III, choose one composition from question 6.*
- *Answer all the questions in the spaces provided.*
- *Candidates should answer the questions in **French**.*

For Examiners' use only

Section	Maximum score	Candidates score
I	15	
II	5	
III	15	
	Total Score	

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SECTION I: Listening Comprehension (15 marks)

Write answers to Questions 1-4 in the spaces provided.

1. Passage 1

(a) Résumez l'annonce dans le tableau suivant. (3 points)

	Equipe	Nature de problème
(i)	……	Sécurité
(ii)	Rose	…….
(iii)	Bleue	Assurance……
(iv)	……..	(v) …….
(vi)	…….	Autres renseignements

(b) Où est-ce qu'on fait cette annonce ?

…… (1 point)

2. Passage 2

(a) Quel est le produit dont on parle ? (½ point)

……

(b) De quel pays vient-il ? (½ point)

……

(c) Qu'est-ce que l'alerte montre à l'usager ? (½ point)

……

(d) Combien coûte le produit ? (½ point)

……

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3. Passage 3

(a) Complétez le tableau avec l'information du texte.

INFORMATION IMPORTANTE
(i) Atelier de ……..(½ point) (ii) Dates: de ……..au cinq août (½ point) (iii) Frais d'inscription : ……. (½ point) (iv) Jour d'arrivée : …… (½ point) (v) Fin des exercices personnels à …… (½ point) Le code donne accès aux lieux suivants : …… (½ point) ……. (½ point)

(b) Qu'est-ce que les participants ne peuvent pas faire pendant l'atelier ?

……. (1 point)

4. Passage 4

(a) On a terminé le concours de lecture en ……. (½ point)

(b) Qui posait des questions aux finalistes ? …… (1 point)

(c) Comme cadeau, les gagnants :

(i) visitent une …… (½ point)

(ii) prennent le ……. avec les …… (1 point)

(d) Les sessions interactives auront lieu dans une ……. exotique. (½ point)

(e) On choisit ce lieu parce qu'il est mentionné ……

…… (½ point)

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SECTION II : DICTATION (5 points)

5. Write the dictation passage in the spaces provided.

SECTION III: **Composition (25 marks)**

Write your two compositions in the spaces provided. Indicate clearly whether your choice is 6a or 6b.

6. In **150 – 180 words**, write in French on:

Either:

a) Beginning as follows:

Mes parents rentrent à la maison comme d'habitude vers six heures du soir mais ce jour-là, il était déjà huit heures……

Or

b) Beginning as follows:

Quand on a annoncé que ma tante venait nous rendre visite, j'ai ……

.....

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KCSE 2023 PREDICTION

POSSIBLE SERIES 1 EXAM

501/2

FRENCH

PAPER 2

(Reading Comprehension, Grammar and Functional Writing)

TIME: 2¼ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

Instructions to candidates.

a) *Write your name, index number and date of the examination in the spaces provided*

b) *This paper consists of* ***SIX*** *printed pages*

c) *This paper has* ***THREE*** *sections*

d) *Answer* ***ALL*** *the questions in the spaces provided*

For Examiner's Use Only

Section	Maximum Score	Candidate's Score
1	15	
2	15	
3	10	
Total	40	

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SECTION I (15 Marks)

Read the passages that follow and answer the questions below

PASSAGE I

On vend plus de 110 millions de télécartes en France chaque année et on peut donc constater que la télécarte est le moyen de paiement préférée des utilisateurs de cabines téléphoniques en France. La télécarte apparait en France en 1987, et elle devient tout de suite un outil de communication très populaire et elle suscite même un intérêt vif de la part des collectionneurs. Les premières cartes sont rayées bleu et blanc et on les appelle « pyjamas » !

Quelques mois après, France Telecom commence à produire des cartes plus artistiques commandées à différents auteurs et c'est à ce temps-là que le grand public se met à les collectionner.

a. Il s'agit de quel appareil ? **(½ mark)**

…….

.

b. A quoi sert l'appareil **?** **(1 mark)**

……..

c. Combien de ces appareils sont vendus chaque année ? **(½ mark)**

……

d. D'après le passage quelle société produisait cet appareil**?** **(½ mark)**

……

e. Donnez le synonyme des mots suivants : (1 mark)

i. favorite : ……

ii. fabriquer : ……

PASSAGE II



2 comprimés

2 fois par jour

Après les repas.

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Deux comprimés à prendre, avec un grand verre d'eau, deux fois par jour, matin et soir, après les repas.

Questions

a. A qui est destiné ce texte ?

…… **(½ mark)**

b. Combien de comprimés doit-on prendre par jour ?

…… **(½ mark)**

c. Que faut-il faire avant de prendre ces comprimés ?

…… **(½ mark)**

PASSAGE III

Je m'appelle Malika Gauger et je suis comptable. Je travaille dans un bureau dans un quartier moderne dans le nord de Paris. C'est un emploi assez intéressant et bien payé. J'aime bien mes collègues - on s'entend très bien et on sort ensemble de temps en temps. J'aime bien travailler en équipe et c'est un emploi qui me donne beaucoup de débouchés et de responsabilités. Par contre, je n'ai pas beaucoup de contact avec le public et je n'ai pas assez de vacances. Je n'habite pas loin du bureau mais je suis toujours épuisée quand je rentre à la maison le soir. Dans l'ensemble j'aime mon métier et je suis assez contente d'être comptable.

Questions

a. Que fait l'auteur dans la vie? **(½ mark)**

……

b. Qu'est-ce qu'il n'aime pas dans son emploi? **(1 mark)**

……

……

c. L'emploi lui offre deux choses. Lesquelles **?** **(1 mark)**

i. ……

ii. ……

d. L'auteur habite loin du **bureau** **(½ mark)**

Oui ☐ Non ☐

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e. Mentionnez **deux** avantages de son emploi**.** **(1 mark)**

……..…

……..……

f. Identifiez les synonymes des mots suivant dans le passage : (1 mark)

i. emploi : ……..…

ii. fatiguée : ……..…

PASSAGE IV

Honfleur, le 5 février

Cher Sofie,

Je viens de rentrer de mes vacances dans les Alpes. Je me suis bien amusée, mais le voyage de retour en voiture était catastrophique! Je suis partie vers midi pour éviter les heures de pointe, et au début, tout allait bien. Pourtant, vers 13h30 il a commencé à neiger et les conditions sont devenues de plus en plus difficiles. J'ai dû m'arrêter et j'ai passé la nuit dans une auberge de jeunesse! Le lendemain il ne neigeait plus donc je me suis mise en marche. J'ai décidé de déjeuner dans une ville à quelques kilomètres de l'autoroute, mais j'ai trouvé que les routes de la ville étaient bloquées par une manifestation et j'ai dû acheter un sandwich dans une station-service. L'après-midi j'ai vu un accident de route et j'ai dû parler aux flics pendant une heure. Je suis enfin arrivée à Honfleur vers minuit. Quel voyage!

Amitiés

Yvette

a. L'expéditrice de la lettre c'est …… et la destinataire c'est **……..…..... (1 mark)**

b. Pourquoi est-elle partie vers midi**?** **(1 mark)**

……....

c. Quand est-ce qu'il a commencé à neiger ? **(½ mark)**

……...

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d. Où est-ce qu'elle s'est logée après s'arrêter ? **(½ mark)**

……..

e. Par quoi la ville était-elle bloquée **?** **(½ mark)**

……..

f. Donnez le synonyme de « policiers » dans le passage. ……**…… (½ mark)**

g. D'après le passage, quelle est l'expression équivalente a « J'ai commencé le voyage »
(1mark)

……

SECTION II (15 Marks)

1. Complete the following sentences beginning as indicated. Avoid unnecessary repetitions. (7 points)

Exemple : Tu as une lampe?

Non,……

Non, *je n'en ai pas.*

a. Mangez-vous toujours des bonbons?

Non, _____ **(1 mark)**

b. S'il a sa voiture il ne sera pas en retard.

S'il avait sa voiture _____ ***(1 mark)***

c. Les élèves sachant nager sont nombreux

Les élèves qui_____ (**1 mark)**

d. Avez-vous parlé à votre père de votre condition?

Non_____ (**1 mark)**

e. A-t-il déjà pris les photos des animaux.

Non, _____ **(1½ mark**

f. Es-tu conscient des dangers des drogues?

Oui, _____ **(½ mark)**

g. Vous ne suivez pas des instructions du docteur?

Si, je _____ **(1 mark)**

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2. *Complete the following passage, filling each space with ONE word only* **(5 marks)**

Notre voyage a commencé à Dar-es-Salam. Nous avons débarqué ……. l'avion et nous avons quitté la ville …….. voiture. Il était déjà 22h00 et nous ……. décidé de …….. la nuit dans un petit village. Le lendemain, nous avons visité Dodoma. Il ……. avait pleines de distractions ……. cette ville. Le lundi, nous avons pris l'avion ……..….. rentrer en France. Ce …….. des vacances formidables et je ……..…… retourner en Tanzanie l'année ……

3. What would you say in each of the following situations? **(3 marks)**

a) Vous demandez la direction de la poste?

……..

b) Vous demandez du poulet au serveur dans le restaurant.

……

c) Vous présentez un visiteur au public qui a des femmes et des hommes.

…….

.

SECTION III: FUNCTIONAL WRITING

Choose ONE composition and write it in the papers provided

In about 120 - 150 words, write in French on: **[10 marks]**

either

(a) Vous êtes maitre de classe et vous parlez à un élève qui a échoué à l'examen de la fin du trimestre de comment réussir à l'examen. Ecrivez un dialogue entre vous et l'élève.

or

(b) Vous êtes préfet dans votre école et vous parlez à votre directeur de comment on pourrait améliorer la condition de vie des élèves dans votre école. Ecrivez le dialogue entre vous et le directeur.

THE LAST PRINTED PAGE

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KCSE 2023 PREDICTION

POSSIBLE SERIES 1 EXAM

501/3

FRENCH

PAPER 3

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

KCSE 2023 PREDICTION (MWALIMU CONSULTANCY)

SECTION 1

READING ALOUD

CARD A

La pandémie a mis en évidence la dépendance de l'Afrique à l'égard de l'étranger : 90 % des médicaments du continent sont importés. Ce qui laisse un boulevard pour développer l'industrie pharmaceutique locale.

Dans un contexte où seulement 4,4 % de la population du continent est entièrement vaccinée contre le coronavirus, les gouvernements africains, soutenus par les entreprises locales et les militants de la santé, soulignent la nécessité de développer la production de médicaments sur place. Au regard de la situation actuelle, cela ouvre des opportunités d'investissement de plusieurs milliards de dollars pour l'industrie pharmaceutique en Afrique au 20eme siècle.

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KCSE 2023 PREDICTION (MWALIMU CONSULTANCY)

SECTION 1

READING ALOUD

CARD B

Les connaissances scientifiques n'ont fait que s'affiner et le constat est clair : ce sont les activités humaines qui rajoutent des gaz à effet de serre, et ceux-ci piègent de la chaleur. Cette dernière s'accumule, devient responsable du réchauffement des océans, de la fonte généralisée des glaces et affecte le vivant. Sur la terre comme sous la mer. Par rapport à la fin du 19eme siècle, nous en sommes à 1,1 dégrée de réchauffement. Oui, nous estimons qu'il est du à l'influence humaine : 80% à 90% proviennent des énergies fossiles, pétrole, charbon, gaz de la déforestation, de la destruction de zones humides, du méthane issu de l'élevage des ruminants … la conséquence, ce sont des événements extrêmes, plus fréquents et plus intenses, des torrentielles et des sécheresses, ici et partout.

KCSE 2023 PREDICTION (MWALIMU CONSULTANCY)

SECTION II

EXPOSE

INSTRUCTIONS TO CANDIDATES

- You will talk on the topic given overleaf.
- You will have ten minutes to prepare for the task.
- You will have two minutes to talk about the topic

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KCSE 2023 PREDICTION (MWALIMU CONSULTANCY)

SECTION II

EXPOSE

INSTRUCTIONS TO CANDIDATES

- You will talk on the topic given overleaf.
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- You will have two minutes to talk about the topic

CARD A

A votre avis, faut-il toujours faire de longues études pour avoir un bon métier?

CARD B

Votre vie sera-t-elle différente de votre vie d'aujourd'hui ? Pourquoi ?

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KCSE 2023 PREDICTION (MWALIMU CONSULTANCY)

SECTION II

EXPOSE

INSTRUCTIONS TO CANDIDATES

- You will talk on the topic given overleaf.
- You will have ten minutes to prepare for the task.
- You will have two minutes to talk about the topic

KCSE 2023 PREDICTION (MWALIMU CONSULTANCY)

SECTION II

EXPOSE

INSTRUCTIONS TO CANDIDATES

- You will talk on the topic given overleaf.
- You will have ten minutes to prepare for the task.
- You will have two minutes to talk about the topic

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CARD C

A votre avis, faut-il avoir plus d'une télévision dans une famille ? Pourquoi ?

CARD D

A votre avis, le téléphone portable peut-il être dangereux ? Pourquoi ?

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KCSE 2023 PREDICTION

POSSIBLE SERIES 1 EXAM

502/1

GERMAN

PAPER 1

TIME: 2 HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

1. *Write your name and index number in the spaces provided above.*
2. *Sign and write the date of examination in the spaces provided above*
3. *This paper has **two** sections: **A** and **B***
4. *In section **A,** you have five minutes to read through the questions before the test starts. Before answering the questions, you will listen to several recorded passages on a tape. For each passage, you will answer questions indicated to you on the tape.*
5. *Answer **all** the questions in the spaces provided in this question paper*

For Examiner's use only

Section	Maximum score	Candidate's Score
I	15	
II	20	
Total Score		

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SECTION A

Listening Comprehension (15 Marks)

Passage 1

Listen to the conversation carefully and answer the following questions

1. Wie viele Sprecherinnen nehmen im Gespräch teil? l (1 mark)

_____

2. Wo genau sind die Sprecher? (1 mark)

_____

Passage 2

3. Was machen die Sprecher? (1 mark)

_____

4. Was hat die Dame gestern gekauft? (1 mark)

_____

5. Welcher Plan hat der Mann Heute? (1 mark)

_____

Passage 3

Listen carefully and answer the following questions by indicating whether the statements are Right (R) or False (F) (5 marks)

	Statement	R	F
6.	Helmut hat nur ein Kind		
7.	Helmuts Vater ist im ersten Weltkrieg gefallen.		
8.	Später hatte Helmut einen strengen stiefvater.		
9.	Helmut hat nie als Maschinenarbeiter gearbeitet.		
10.	Helmut hat keine Söhne, sondern zwei Töchter		
11.	Helmuts Vater war kein Busfahrer		

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Passage 4

Listen to the conversation carefully and answer the following questions.

12. Was machen die Kinder mit den Geschichten und Märchen als Projekt im Unterricht? (1 mark)

_____

13. Warum will der Lehrer Geschichten nicht nur aus England? (1 mark)

_____

_____

14. Welche Schulmaterialien will der Künstlehrer? (1 mark)

_____

15. Wie viel Geld haben die Lehrer für die Schulmaterialien ausgegeben? (1 mark)

_____

SECTION II

Composition (20 marks)

Write a letter of about 220 – 250 words in the pages provided.

1. Du wohnst seit Jahren in Deutschland. Dein kleiner Bruder will sein Studium in Deutschland machen, und hat dich die Fragen hierunten gestellt. Beantworte die Fragen, damit er sich darüber informiert.

- Welche Möglichkeiten gibt es in Deutschland zu studieren?
- Welche Kosten muss man tragen, während seines Studium in Deutschland?
- Welche Qualifikationen sollte man mitbringen, um in Deutschland studieren zu können?
- Wo ist es am besten zu studieren? In kleinen oder großen Städte? Erkläre.
- Kann ein Kenianer einen Job nach dem Studium in Deutschland finden?

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2. Ihr nehmt Teil am Musikfest für Schulen in Kenia. Schreib einen Brief an deinem Freund/ deiner Freundin in Deutschland und erzähl ihm/ihr darüber. Berücksichtige die folgenden Aspekte:

- Warum das Musikfest für euch wichtig ist,
- In welchen Präsentationen ihr eure Talente zeigen,
- Was für Eigenschaften ein guter Präsenter haben muss,
- Wie man sich vor dem Fest vorbereitet,
- Welche Probleme es auf dem Fest gibt.

3. Dein Vater ist krank geworden und ist ins Krankenhaus gebracht. Deine Schwester in Deutschland will alles wissen, was passiert ist. Schreib ihr einen Brief und erzähl ihr:

- wie er ins Krankenhaus gekommen ist,
- wie er gefühlt hat, bevor er ins Krankenhaus gebracht wurde.
- was die medizinische Untersuchung entdeckt hat, und was der Artzt ihm empfohlen hat,
- wie es ihm zur Zeit geht
- ob du etwas Hilfe von ihr braucht.

1. Schreib eine Geschichte mit dem Titel: ‘Julias Geburtstag’

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KCSE 2023 PREDICTION

POSSIBLE SERIES 1 EXAM

502/2

GERMAN

PAPER 2

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

(d) *Write your name, admission number and class in the spaces provided above.*

(e) *Answer **all** the questions in the spaces provided.*

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Section	Questions	Maximum Score	Student Score
A	Grammatik	20	
B	Leseverstehens	20	
	Gesamt Punkte	40	

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SECTION 1 – GRAMMATIK

A) Fill in the blanks with the correct article. ***(4marks)***

Example: Paul saß in ein___ kleinen Kneipe.

Paul saß in ein***er*** kleinen Kneipe.

1. Was hast du da in d___ Hand?
2. Hinter m___ standen viele Leute.
3. Kannst du mir die Adresse auf dies___ Zettel schreiben?
4. Sie sitzen in d_____ Schatten.

B) Fill in the blanks with the most appropriate verb. ***(4 marks)***

Example: Der Vater _____ ihm helfen.

Der Vater ***soll*** ihm helfen.

5. In Kenia _____man in der Öffentlichkeit nicht rauchen.
6. Als unser Lehrer student war, _____ er seine Freundin häufig _____ bis sein Handyakku leer wurde.
7. Die Flugzeuge ist nach Großbritanien _____
8. _____ du morgen in der Schule sein?

C) Complete the exercise by filling in the correct word from the ones given below.(4 mks)

nichts – irgendwo – nicht – niemand – jemand

Example: _____ hat mein Buch gestohlen

Jemand hat mein Buch gestorlen

9. Das Auto ist _____ gelb, sondern blau.
10. Das macht _____! Er muß fleißig arbeiten.
11. _____ braucht jetzt Hilfe. Alle können es schon.
12. Das verlorene Geld steckt _____ in diesem Zimmer.

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D) Fill in the correct reflexive pronoun. ***(4 marks)***

Example: Terily wäscht _____ die Hände.

Terily wäscht ***sich*** die Hände.

13. Kiprop entscheidet _____ einen Kurs zu besuchen.
14. Studenten, habt ihr _____ bei dem Direktor entschuldigt?
15. Bitte kaufen Sie _____ ein Geschenk! Ich habe mir schon eins gekauft.
16. Wir können _____ hier setzen, und auf die Gästen warten.

E) Use the correct form of the word in brackets to complete the sentence. ***(4 marks)***

Example: Wir warten auf den _____ Gast. (fremd)

Wir warten auf den ***fremden*** Gast.

17. Ergänzen Sie mit dem _____ Wort. (geben)
18. Gut gemacht! Arbeite noch fleißiger, um die _____ Noten zu bekommen. (gut)
19. _____ Leute wurden 10€ geschenkt. (arm)
20. Das Schnarchen des _____ Mannes stört uns. (schlafen)

F) ***Fill in the blanks with the correct form of the article.*** ***(4 marks)***

Example: Der Artzt empfehlt ihm _____ Schmerzmittel.

Der Artzt empfehlt ihm ***ein*** Schmerzmittel.

21. Morgen kommt _____ Mann zu uns. Ich habe ihn dir gezeigt.
22. Gerade Kobler? Der grußt _____Mensch! Herr Pingel macht das gern.
23. Die Touristin macht ein Sonderfoto mit _____ Elefanten.
24. Hier kommt der Präsident! Das Gefolge _____ Präsidenten hat fünf Luxusautos.

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G) Fill in the gaps with the correct preposition or verb? ***(4 marks)***

(wegen, außer, von, beschwert)

Example: Er fährt das auto, _____ die Tür zuzumachen.

Er fährt das auto, ***ohne*** die Tür zuzumachen.

25. Der Kunde _____ sich bei dem Verkäufer über den Preis.
26. _____ mir und dir waren die anderen da.
27. Seine Eltern sind unglücklich _____ seiner schlechten Benehmung.
28. Unsere Entscheidung hängt _____ der Zeit ihrer Ankunft ab.

H) Use the given particles to form a correct sentence as already began for you.

(4 marks)

Example: Morgen/können/zur Schule/die Studenten

Morgen ***kommen die Schüler zur Schule/Die Schüler kommen morgen zur Schule***

29. Ihre/ Mutter/sie/ihr/schicken

Ihre_____

30. mit dem Bus/fahren/die Kinder/nächste Woche

Die Kinder_____

31. trotz/der Regen/spielen/Fußball/sie

Trotz_____

32. ich kann nicht/wie/geschafft/er/das/erklären/haben

Wie _____

I) Combine the sentences into one using a relative conjunction. ***(4 marks)***

Example: Das ist der Mann. ich habe ihm geholfen.

Das ist der Mann, ***dem*** ich geholfen habe.

33. Das da ist der hübsche Junge. Ich liebe ihn.

_____

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34. Alle Schülerinnen sind zu Hause. Ihre Eltern haben die Schulgebühren noch nicht bezahlt.

_____

35. Das Kind weint. Sein Finger ist verletzt.

_____

36. Der Bus ist kaputt. Wir sollten mit dem Bus fahren.

_____

J) Write the following sentences in passive form. ***(4 marks)***

Example: Die Physiklehrerin unterrichtet Deutsch.

Deutsch ***wird*** unterrichtet.

37. Deutschgrammatik meistern wir durch heufiges Üben.

_____

38. Kipketer sammelt die Zettel im Klassenzimmer.

_____

39. Deine Frau ruft dich an.

_____

40. Gibt der Schuldirektor euch viel Information?

_____

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SECTION 2:

READING COMPREHENSION (20 MARKS)

a) Read the passage below and answer the questions that follow.

Studium in Deutschland

Bevor Sie mit dem Studieren beginnen können, müssen Sie den nächsten Schritt bei Ihrer Studienwahl machen und sich für ein konkretes Studienfach entscheiden. Dabei werden Sie sicherlich Hilfe benötigen und sich nicht nur fragen, was sie studieren möchten, sondern auch welche Hochschulen und Abschlüsse für Sie in Frage kommen. Der nächste Schritt führt Sie somit fast zwangsläufig zur Studienberatung..

Zu Beginn Ihrer Studienwahl sollten Sie sich über Ihre Motivation, Interessen und Fähigkeiten klar werden, damit Sie später auch das studieren, was am besten zu Ihnen passt. Wir geben Hinweise, welche Fragen Sie sich bei der Studienorientierung stellen sollten und wer Sie bei der Studienwahl beraten und unterstützen kann. Aber bitte denken Sie daran, dass all diese Angebote die Studienberatung durch die Hochschule zwar ergänzen, nicht aber ersetzen können.

Was will ich studieren?

Manche wissen schon lange, dass sie studieren werden und auch was sie studieren möchten. Andere hingegen haben noch gar keine Vorstellung davon, was sie studieren sollen bzw. können. Insbesondere dann ist es sinnvoll, nicht gleich nach einem konkreten Studienfach zu suchen, sondern sich zunächst über eine Studienrichtung klar zu werden. Am einfachsten geht das, wenn man sich einige grundlegende Fragen stellt.

Was macht mir wirklich Spaß?

Bevor Sie ans Studieren denken, sollten Sie sich zunächst völlig unabhängig vom späteren Berufswunsch und den Karriereaussichten überlegen, was Ihnen wirklich Spaß macht. Immerhin fällen Sie mit Ihrer Studienwahl eine Entscheidung, die Sie vermutlich ein Leben lang begleiten wird. Da sollten Sie schon darauf achten, dass Sie etwas studieren, was Ihnen auch Spaß macht.

Was sind meine Interessen?

Sie interessieren sich für viele Dinge? Dann versuchen Sie doch mehrere Interessen miteinander zu kombinieren. Wenn Sie sich beispielsweise für fremde Kulturen, Geografie und Politik interessieren, könnte es für Sie interessant sein einen Studiengang aus dem Bereich Entwicklungszusammenarbeit zu studieren.

Was sind meine Begabungen?

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Manchmal passen die Interessen nicht zu den eigenen Begabungen und umgekehrt. Wenn Sie sich z.B. für Medizin interessieren, aber nur wenig Talent in den naturwissenschaftlichen Fächern haben, sollten Sie genau überlegen, ob Sie wirklich Medizin studieren möchten.

In welcher Studienrichtung möchte ich studieren?

Am Ende Ihrer Überlegungen sollten Sie nun eine Vorstellung davon haben, in welche Richtung Sie studieren möchten. Noch besser ist es, wenn Sie mehrere Studienrichtungen ausfindig gemacht haben, für die Sie sich interessieren. Ein Ergebnis Ihrer bisherigen Überlegungen könnte sein, dass Sie sich vorstellen können, ein Lehramtsstudium zu beginnen oder einen Studiengang im Gesundheitswesen zu studieren.

Fragen

1. Wofür soll man sich entscheiden, bevor man mit dem Studium beginnt? **(1mark)**

_____

2. Welche Faktoren muss man überlegen, um zu studieren, was zu ihm/ihr am besten past?

(1½marks)

_____

_____

_____

3. Was soll man machen wenn er/sie keine Ahnung hat, was zu studieren? **(2 marks)**

_____

_____

_____

4. Außer Berufswunsch und Karriereaussichten, was noch soll man überlegen**?** **(2 marks**)

_____

5. In welchem Fall versucht man die mehrere Interessen mit einander zu kombinieren?

(2 marks)

_____

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6. Manchmal passen die Interesse nicht zu den eigenen Begabungen und umgekehrt. Was wäre ideal? (2 marks)

_____

7. Nenne eine Studienrichtung oder Studiengang in dem letzten Absatz. (½mark)

_____

PASSAGE 2

b) Read the passage below and answer the questions that follow

Ein König hat 3 Söhne: 2 Söhne sind klug. Und 1 Sohn ist dumm. Deshalb heißt dieser Sohn: Dummling. Der König ist schon sehr alt. Und auch krank. Deshalb fragt sich der König: Welcher Sohn wird nach mir König? Und der König sagt zu seinen Söhnen: Sucht den schönsten Teppich. Der Sohn mit dem schönsten Teppich wird König.

Der König und seine 3 Söhne gehen vor das Schloss. Der König pustet 3 Federn in die Luft. Dann sagt der König zu seinen 3 Söhnen: Folgt den Federn! Eine Feder fliegt rechts nach Osten. Und eine Feder fliegt links nach Westen. Nur die 3. Feder fliegt gerade·aus. Und fällt auf den Boden.

Ein Sohn folgt der Feder nach Osten. Ein Sohn folgt der Feder nach Westen. Nur der Dummling muss bei der 3. Feder bleiben. Deshalb lachen seine Brüder über den Dummling. Der Dummling setzt sich hin. Und ist traurig.

Plötzlich sieht der Dummling: Neben der Feder ist eine Fall·tür. Die Fall·tür ist im Boden. Der Dummling öffnet die Fall·tür. Unter der Fall·tür ist eine Treppe. Der Dummling geht die Treppe hinunter. Unten ist eine Tür. Der Dummling klopft an die Tür. Eine Stimme fragt: Wer ist da? Die Tür geht auf. Der Dummling sieht eine Kröte. Die Kröte ist groß. Und dick. Und um die dicke Kröte herum sitzen viele kleine Kröten. Die dicke Kröte fragt: Was willst du? Der Dummling sagt zu der dicken Kröte: Ich brauche den schönsten Teppich. Die dicke Kröte sagt zu einer kleinen Kröte: Bring mir die große Schachtel! Die kleine Kröte bringt eine große Schachtel. Die dicke Kröte macht die Schachtel auf. Und holt einen Teppich heraus. Die dicke Kröte gibt dem Dummling den Teppich. Der Teppich ist schöner als alle Teppiche auf der Welt. Der Dummling bedankt sich bei der Kröte. Und der Dummling geht zurück zum Schloss.

Der Dummling ist dumm Der Dummling findet nichts. Deshalb machen wir es uns leicht. Die Brüder finden alte Tücher auf dem Weg. Und die Brüder suchen nicht weiter. Die Brüder bringen dem König die alten Tücher. Und der Dummling bringt dem König seinen schönen Teppich. Der König staunt. Und sagt: Der Dummling wird König. Aber die Brüder vom Dummling sagen zum König: Der Dummling ist dumm.Der Dummling darf nicht König sein. Und die Brüder vom Dummling bitten den König um eine neue Aufgabe.

Da sagt der König: Sucht den schönsten Ring. Der Sohn mit dem schönsten Ring wird König .Der König und seine 3 Söhne gehen wieder vor das Schloss. Der König pustet 3 Federn in die Luft. Dann sagt der König zu seinen 3 Söhnen: Folgt den Federn! Eine Feder fliegt wieder nach Osten.

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Und eine Feder fliegt wieder nach Westen. Nur die Feder vom Dummling fliegt wieder gerade·aus neben die Fall·tür.

Und der Dummling geht wieder zu der dicken Kröte Der Dummling sagt zu der dicken Kröte.: Ich brauche den schönsten Ring. Die dicke Kröte sagt zu einer kleinen Kröte: Bring mir die große Schachtel! Die kleine Kröte bringt eine große Schachtel. Die dicke Kröte macht die Schachtel auf. Und holt einen Ring heraus. Die dicke Kröte gibt dem Dummling den Ring. Der Ring glänzt. Und der Ring hat viele Edel·steine. Der Ring ist schöner als alle Ringe auf der Welt.

Die Brüder vom Dummling denken: Der Dummling ist dumm. Der Dummling findet nichts. Deshalb machen wir es uns leicht. Die Brüder finden alte Ringe auf dem Weg. Und die Brüder suchen nicht weiter. Die Brüder bringen dem König die alten Ringe. Und der Dummling bringt dem König seinen schönen Ring. Da sagt der König: Der Dummling wird König. Aber die Brüder vom Dummling sagen zum König: Der Dummling ist dumm.Der Dummling darf nicht König sein.

Und die Brüder vom Dummling bitten den König um eine neue Aufgabe.Da sagt der König: Sucht die schönste Frau. Der Sohn mit der schönsten Frau wird König. Der König und seine 3 Söhne gehen wieder vor das Schloss. Der König pustet 3 Federn in die Luft. Und die Federn fliegen wieder an dieselben Orte. Und der Dummling geht wieder zu der dicken Kröte. Der Dummling sagt zu der dicken Kröte: Ich soll die schönste Frau nach Hause bringen. Die dicke Kröte antwortet: Das ist schwer. Aber du bekommst die schönste Frau.

Die dicke Kröte gibt dem Dummling eine Rübe. Die Rübe ist innen hohl. Vor die Rübe sind 6 Mäuse gespannt. So wie bei einer Kutsche. Der Dummling ist traurig. Und sagt: Was soll ich damit? Die dicke Kröte antwortet: Setze eine kleine Kröte in die Rübe. Der Dummling setzt eine kleine Kröte in die Rübe. Plötzlich wird die Rübe zu einer Kutsche. Und die 6 Mäuse werden zu Pferden. Und die kleine Kröte wird zu einer schönen Frau. Der Dummling fährt mit der schönen Frau in der Kutsche zum Schloss.

Die Frauen von den Brüdern sind dick. Und hässlich. Da sagt der König: Der Dummling wird König. Aber die Brüder vom Dummling sind dagegen. Deshalb bitten die Brüder vom Dummling den König um eine letzte Aufgabe. Der König ist einverstanden: Jetzt sollen die Frauen durch einen Reifen springen. Schafft es die Frau von einem Sohn? Dann wird dieser Sohn König. Die Brüder vom Dummling denken Unsere Frauen sind stark. Unsere Frauen können durch den Reifen springen. Aber die Frau vom Dummling ist dünn. Und schwach. Die Frau vom Dummling schafft diese Aufgabe nicht.

Zuerst springen die Frauen von den 2 Brüdern durch den Reifen. Aber die Frauen sind zu schwer. Und die Frauen fallen hin. Dann springt die Frau vom Dummling durch den Reifen. Die Frau vom Dummling springt so leicht wie eine Feder. Und die Frau vom Dummling schafft es. So wird der Dummling der neue König.

Fragen:

1. Warum wird einen neuen König gesucht? **(1mark)**

_____

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2. Wie haben die Brüder den Dummling behandelt? **(1 mark)**

_____

3. Der Dummling hat gute Manniere. Erklare. **(2 marks)**

_____

4. Beshreibe die Kröte. **(1 mark)**

_____

5. Warum sind die Brüder des Dummlings immer dagegen, dass er König wird? **(1 mark)**

_____

6. Die Kröte ist hilfsbereit. wieso? (**2marks)**

_____

7. Welche Aufgaben sollten die Söhne des Königs unternehmen, um der neue König zu werden? **(1 mark)**

_____

8. Wie ist der Dummling endlich König gewesen? **(1 mark)**

_____

KCSE 23

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KCSE 2023 PREDICTION

POSSIBLE SERIES 1 EXAM

504/1

KENYA SIGN LANGUAGE

PAPER 1

TIME: 2½ HOURS

NAME……

SCHOOL…… **SIGN**……

INDEX NO…… **ADM NO**……

Kenya Certificate of Secondary Education.

Instruction

I.*Name Your Same Admission Number Write Space Above//*

II.*Sign Same Date Today Write Space Above//*

III.*Answer All Write KSL Clear Clear//*

IV.*Check All Question Paper This//*

SECTION	MAXIMUM SCORE	CANDIDATES SCORE
A: SIGNED STORY	15	
B: FINGERSPELLED WORDS	10	
C: SENTENCE	10	
TOTAL	**35**	

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SECTION A STORY **(MK 15)**

STORY THERE WATCH FINISH AGAIN WATCH FINISH/QUESTION ANSWER//

QUESTION

1. SCHOOL THERE/STUDENT ALL WAKE TIME WHAT (MK 1)

……

……

……

……

2. SUBJECT NEW FOUR SECONDARY SCHOOL THERE WRITE// (MK 2)

……

……

……

……

……

3. STUDENT ALL HAPPY WHY (MK 2)

……

……

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4. SCHOOL SECONDARY BUILDING BIG HAVE EXAMPLE (MK 2)

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……

5. ACTIVITY SPORT (GAME GAME) STUDENT JOIN WRITE (MK 1)

……

……

……

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6. STUDENT OTHER CLUB FOUR JOIN WHICH (MK 2)

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……

7. WEEKEND ACTIVITY TWO STUDENT STUDENT INVOLVE WRITE (MK 2)

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SECTION B SENTENCE// (MK 10

SENTENCE WATCH FINISH AGAIN WATCH/SENTENCE WRITE//

1……

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2……

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3……

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4……

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5……

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6……

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7……

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8……

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9……

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10……

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SECTION C: WORD FINGERSPELL// (MK 10)

WORD WORD THERE FINGERSPELL/WATCH SAME WRITE//

1……

2……

3. ……

4. ……

5. ……

6 ……

7……

8……

9……

10……

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KCSE 2023 PREDICTION

POSSIBLE SERIES 1 EXAM

504/2

KENYA SIGN LANGUAGE

PAPER 1

TIME: 1½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS

1. NAME YOUR SAME INDEX NUMBER WRITE SPACE ABOVE//
2. SIGN SAME DATE TODAY WRITE SPACE ABOVE//
3. SECTION A QUESTION ONE ONLY ANSWER//
4. SECTION B QUESTION ALL ANSWER//
5. ANSWER YOUR WRITE KSL ORDER ONLY MUST//
6. USE SPACE THERE QUESTION ALL ANSWER//
7. PAPER REMOVE SAME ADD NO//

SECTION	MAXIMUM SCORE	CANDIDATES SCORE
A	10	
B	10	
C	5	
TOTAL	**25**	

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SECTION A COMPOSITION

BELOW TOPIC TWO THERE/ONE CHOOSE SAME STORY WRITE WORD WORD ABOUT 220 USE MUST//

1. SATURDAY LAST/HOME MINE THERE/ME SEE MAN RUN RUN HOUSE OUR PASS/ME DECIDE MAN THIS FOLLOW MUST/WANT KNOW MAN RUN RUN WHY ME……

OR

TECHNOLOGY IMPORTANT SECTOR EDUCATION NOTHING/DISCUSS//

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SECTION B: GRAMMAR

1. SIGN BELOW DIFFERENT HOW TIME MAKE// (MARK 1)

I. YOU

II. WARN

……

……

……

……

2. SIGN NEXT DESCRIBE//

(A) BYEBYE (MK 1)

I. HANDSHAPE ……

II. ORIENTIATION ……

III. MOVEMENT ……

IV. PLACEMENT ……

B) READ (MK 1)

I. HANDSHAPE ……

II. ORIENTATION ……

III. FACIAL EXPRESSION ……

IV. ARTICULATION ……

3. SENTENCE NEXT REWRITE INSTRUCTION BRACKET USE//

(A) VEHICLE MOVE ……./WHY/ROAD OUR BAD// (MARK ½)

(REWRITE ADVERB CORRECT USE)

(B) CHILD SCHOOL GO ……. (*REWRITE ADVERB CORRECT USE)*

(MARK ½)

(C) POLICE OFFICER ……..THIEF CATCH HOW

(SENTENCE REWRITE ADJECTIVE CORRECT USE) (MARK ½)

(D) YESTERDAY STUDENT ALL HAPPY HAPPY/WHY/VISITOR MASENO SODA GIVE

(SENTENCE REWRITE TENSE PRESENT SHOW) (MARK ½)

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……

……

……

……

4. SENTENCE NEXT JOIN CONJUNCTION SUITABLE USE// (MK 1)

(I) TIME TWO STUDENT CLASS LATE COME ALWAYS//

(II) ALWAYS FOOD READY

……

……

……

……

5 STORY NEXT GLOZE MARK (MARK 3)

NOW you ARE DOING WHAT ME SAID ALL CLASS GO DESK CHAIR SAME TABLE ARRANGE WELL WHY VISITOR EXPECT ARRIVE TIME EIGHT

……

……

……

……

……

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6. PICTURE/SIGN NEXT USE CROSSWORD PUZZLE COMPLETE.

1. DOWN

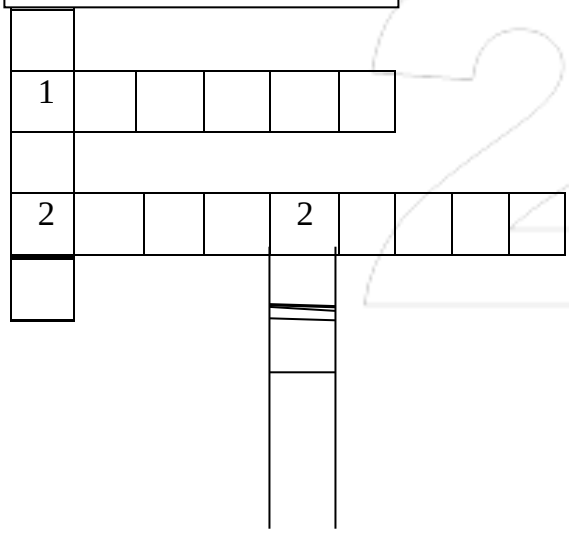
2. DOWN

1. ACROSS

SIGN:_____

2. ACROSS

SIGN:_____



SECTION C: COMPREHENSION

STORY BELOW READ SAME QUESTION 1 – 4 ANSWER CORRECT//

TREE TREE MANY IMPORTANT MORE WHY/BENEFIT DIFFERENT DIFFERENT THERE//THREE TYPE DIFFERENT DIFFERENT THERE//TREE SOME WOOD HARD SOME WOOD SOFT THERE//TREE USE PAPER PRODUCE//FIRE WOOD CATCH

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HOW THREE FROM//FACTORY MANY MANY TREE USE WAY WAY DIFFERENT/FACTORY TEA FIRE WOOD USE TEA DRY/

SAME FACTORY BRICK TREE USE BRICK DRY//WAY OTHER TREE USE WHAT/

COMPOUND FENCE/AREA BEAUTIFUL MAKE/MEDICINE MAKE/ROOF BUILD SAME// TREE PLANT EROSION-SOIL PREVENT/IF TREE PLANT MANY/RAIN THERE/IF TREE PLANT NOTHING RAIN ZERO//

TREE DESTRUCTION KENYA PROBLEM BIG BIG/PERSON TREE ONE CUT/PLANT TWO MUST/CHILD CHILD TREE IMPORTANT LEARN MUST/GOVERNMENT KENYA EDUCATE PEOPLE TREE CARE MUST/IF GOVERNMENT EDUCATE PEOPLE NOTHING/FUTURE PEOPLE SUFFER SUFFER/WHY/FOOD NOTHING/RAIN NOTHING/EAT WHAT/LAND DRY FINISH//

QUESTION

1. WOOD TYPE DIFFERENT ~~WHI~~CH (MARK 1)

……

……

…2. FACTORY TREE USE HOW (MARK 1)

……

……

…3. TREE CLIMATE HELP HOW (MARK 1)

……

……

…4. WAY 2 POSSIBLE HELP THREE DESTROY STOP WHAT (MARK 1)

……

……

5. STORY THIS TITLE BEST FIVE TREE TREE IMPORTANT HOW TREE USE HOW (MK 1)

……

……

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THE END

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