

TOPGRADE 2026 KCSE PREDICTION

ALL SUBJECTS

(BLUEPRINT REPLICA OF KCSE 2026 EXAMINATION)

This compilation offers a systematically arranged assemblage of simulated assessments, specifically formulated for KCSE. Each assessment is meticulously crafted to align with the curriculum requirements, thereby offering students a thorough practice experience. The precise structure and orderly design of these assessments serve to facilitate learning, thereby ensuring a conducive study environment for the KCSE 2026 examinations.

SUBJECTS TESTED;

Mathematics, English, Kiswahili, Biology, Chemistry, Physics, CRE, IRE, Geography, History, Home-science, Agriculture, Business & Computer Studies.

CONFIDENTIAL

For Marking Schemes

Mr Isaboke 0746-222-000 / 0753-222-000

PASSWORD TO SUCCESS

KCSE 2026 TOPGRADE PREDICTION

(BLUEPRINT REPLICA OF KCSE 2026 EXAMINATION)

BIOLOGY

231/1

PAPER 1 (THEORY)

TIME: 2 HOURS

NAME.....

SCHOOL..... SIGN.....

INDEX NO..... ADM NO.....

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

- 1. Write your name and admission number in the spaces provided above.*
- 2. Sign and write date of examination in spaces provided.*
- 3. Answer all questions in the spaces provided*
- 4. Mathematical tables and silent electronic calculators may be used*
- 5. All working must be clearly shown where necessary*

FOR EXAMINERS USE ONLY

QUESTIONS	NAXIMUM SCORE	CANDIDATES SCORE
1 - 29	80 marks	

Answer all questions in the spaces provided

1. State **two** effects of drug abuse. (2mks)

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2. State two ways by which study of biology fosters international cooperation. (2mks)

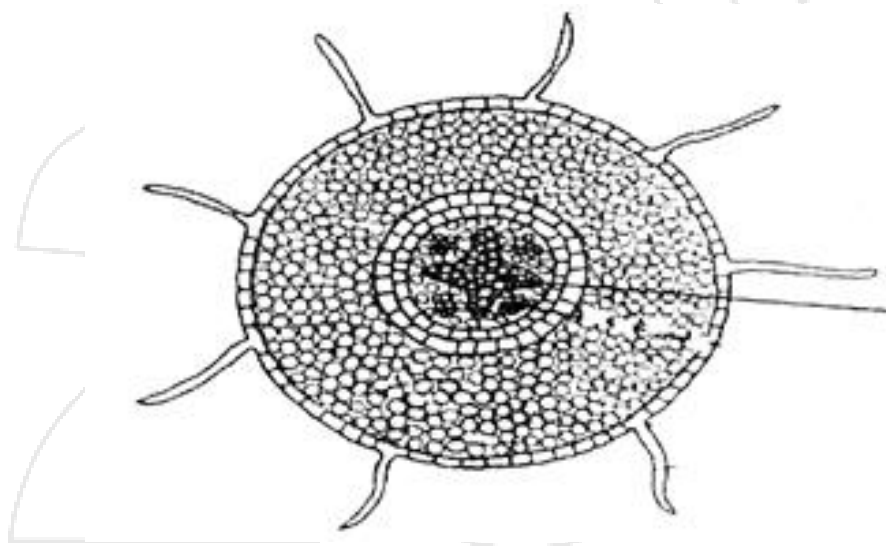
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3. The diagram below represents a transverse section through a plant organ



a) From which plant organ was the section obtained (1mk)

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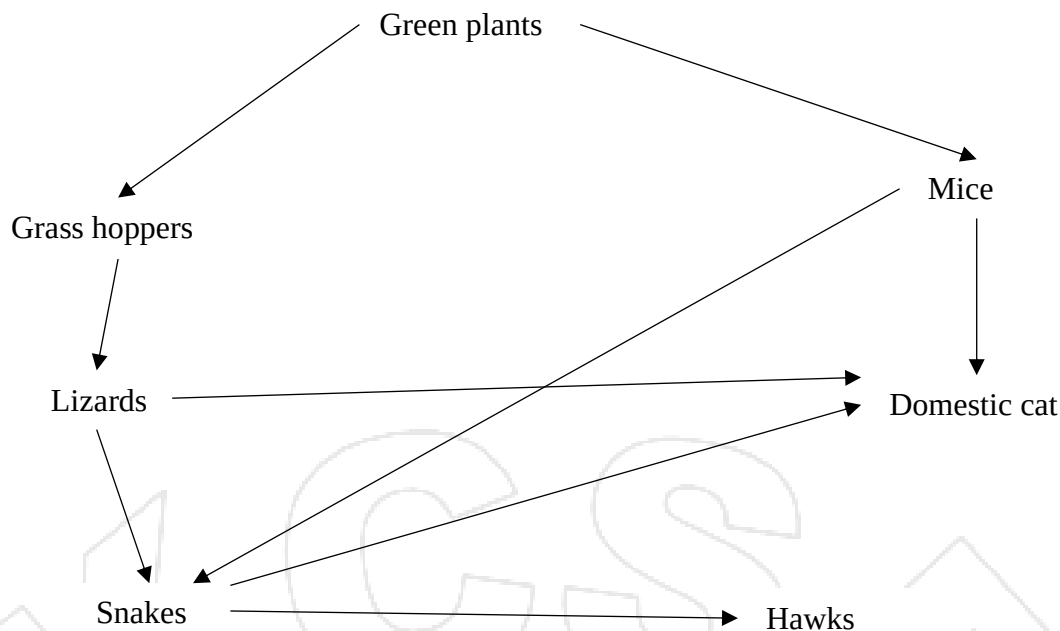
b) Give **two** reasons for your answer in (a) above (2mks)

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4. The chart below shows a feeding relationship in a certain ecosystem



a) Construct the food chains ending with a tertiary consumer in each case. (2mks)

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b) Suggest **three** ways in which the ecosystem would be affected if there was prolonged drought (3mks)

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5. A person was able to read a book clearly at arm's length, but not at normal distance

a) State the eye defect the person suffered from (1mk)

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b) Why was he unable to read the book clearly at normal distance (1mk)

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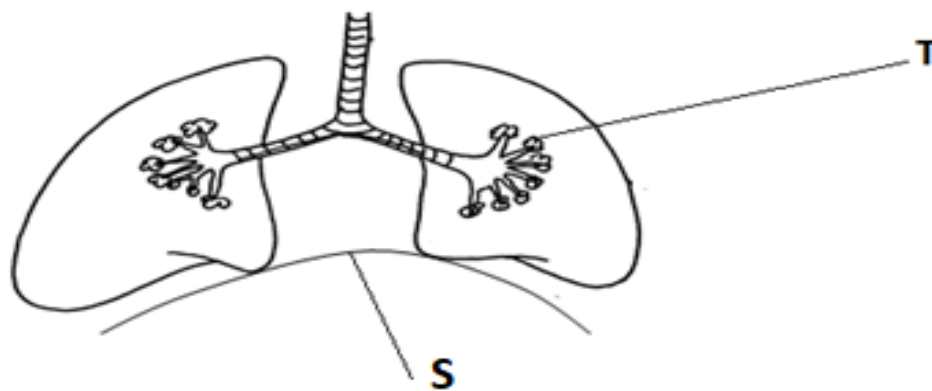
c) How can the defect be corrected

(1mk)

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6. The diagram below shows part of a mammalian respiratory system



(a) Explain two ways in which the part labelled T is adapted to its functions (2mks)

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(b) How does the part labelled S facilitate breathing in (2mks)

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7. Define the term homodont.

(1mk)

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8. Explain why it is not easy to determine the respiratory quotient in the palisade cells of plants

(2mks)

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9. Explain the events that take place in the human eye when one moves from a poorly lit room to a well-lit room. (3mks)

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10. State **three** applications of anaerobic respiration in industry. (3mks)

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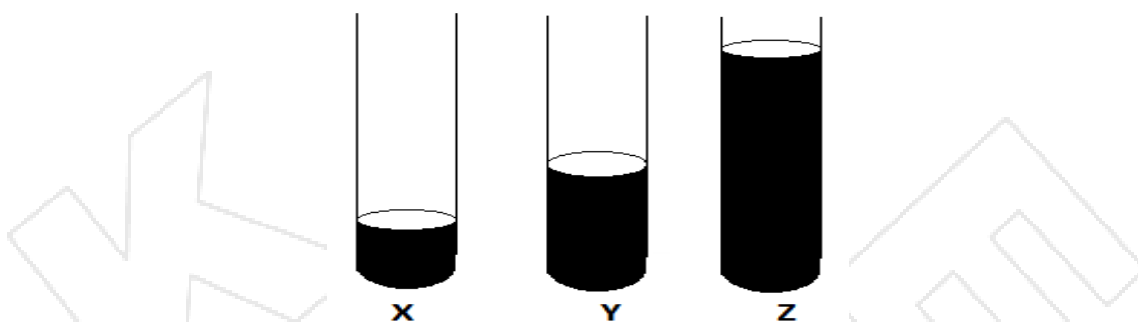
11. The figure below shows certain organisms. Use the dichotomous key to identify the organisms P, Q and T. (3mks)



1. a) Animal with wings Housefly
b) Animal without wings Go to 2
2. a) Animal with walking limbs Go to 3
b) Animal without walking limbs Go to 4
3. a) Animal with four pairs of walking legs Spider
b) Animal with more than four pairs of walking limbs Milipede
4. a) Animal with shell Snail
b) Animal without shell Slug

Animal	Identity	Steps followed
P		
Q		
T		

12. In an experiment, an anti-serum from an animal P was mixed with sera from three other animals in separate test tubes. The heights of precipitates formed was recorded as shown in the diagrams below.



a) Which animal was closely related to animal P? Give a reason. (2mks)

.....

.....

.....

b) Which evidence of organic evolution is illustrated above? (1mk)

.....

c) What do similarity of wings of bats and those of insects illustrate? (1mk)

.....

.....

13. Explain why digestion of starch stops the moment food enters the stomach. (3mks)

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14. State two functions of the cell sap. (2mks)

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15. Distinguish between homologous and analogous structures. (2mks)

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16. In an experiment, 600 flies were caught and marked. After 24 hrs 400 flies were caught out of which 120 had the marks. Estimate the population size of the flies in that habitat. (2mks)

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17. State two functions of the secretion from sebaceous gland of mammalian skin. (2mks)

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18. State the significance of thigmotropism to a photosynthetic plant. (2mks)

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19. An organelle magnified 4000 times by an electron microscope measured 2mm in diameter. Calculate its real diameter in micro-meters. (2mks)

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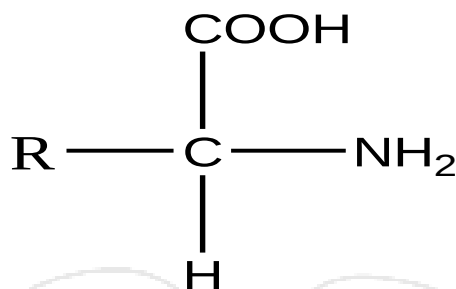
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20. Which substance causes ripening and falling of fruits (1mk)

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21. Below is the general structure of an amino acid



What do the following refer to? (2mks)

-COOH

-NH₂

22. State two theories that explain the origin of life on the earth. (2mks)

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23. State **two** ways of breaking seed dormancy. (2mks)

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24. (a) State two roles of the DNA molecule. (2mks)

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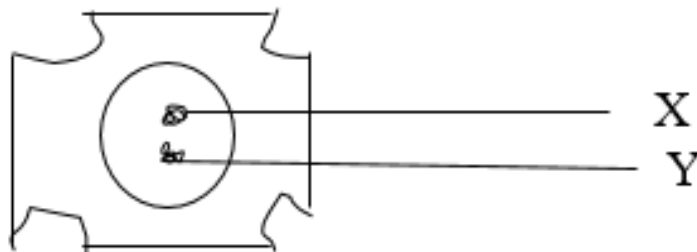
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(b) A DNA strand sequence had the following base sequence TAC GCT. What is the sequence of M- RNA strand copied from this DNA portion? (1mk)

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25. The diagram below shows a mature pollen grain



a) State the function of the structure labelled.

(2mks)

X.....
.....

Y.....
.....

b) What is meant by double fertilization?

(2mks)

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.....

c) Give two features that hinder self-pollination.

(2mks)

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.....

26. What will happen to a small section of fresh pumpkin stem placed in hypotonic solution?

(3mks)

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27. a) A person consumes a lot of sugar in tea. Briefly explain the feedback mechanism in order to bring the sugar level to normal.

(3mks)

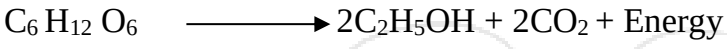
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b) What causes diabetes insipidus? **(1mk)**

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28. Given the equation of respiration:



a) Name the type of respiration taking place. **(1mk)**

.....

b) Calculate the respiratory quotient (RQ) , use the equation. **(2mks)**

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29. Explain the immediate reaction of the body bathed in cold water. **(3mks)**

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30. Explain why the Lamarckian theory was disputed by scientists. **(1mk)**

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KCSE 2026 TOPGRADE PREDICTION

(BLUEPRINT REPLICA OF KCSE 2026 EXAMINATION)

BIOLOGY

231/2

PAPER 2 (THEORY)

TIME: 2 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.
- Answer **all** the questions in Section **A** in the spaces provided.
- In section **B** answer questions **6** (compulsory) and either question **7** or **8** in the spaces provided

For Examiner's Use Only:

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATES SCORE
A	1	8	
	2	8	
	3	8	
	4	8	
	5	8	
B	6	20	
	7 OR 8	20	
	TOTAL	80	

SECTION A (40 MARKS)

Answer ALL questions in this section in the space provided below.

1. (a) What is meant by the term sex linkage? (1 Mark)

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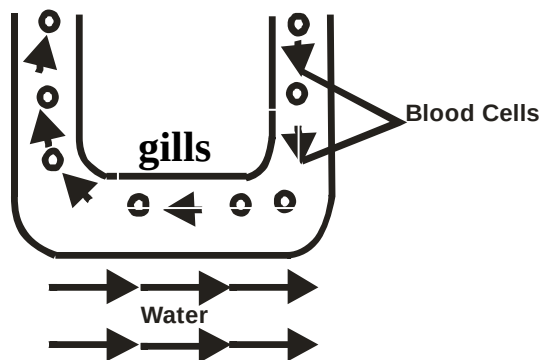
- (b) Name two sex-linked traits in humans. (2Marks)

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- (c) In *Drosophila melanogaster*, the inheritance of eye color is sex-linked. The gene for the red eye is dominant. A cross was made between a homozygous red-eyed female and a white eyed male. Work out the phenotypic ratio of F1 generation. (Use R to represent the gene for red eyes). (5mks)

26

2. The diagram below shows how gaseous exchange occurs across the gills in fish.



(a) According to the diagram water and blood flow in opposite direction across the gills.

(i) Give the term used to describe this flow. (1 Mark)

.....

(ii) Explain the advantage of the above flow named in a(i) above. (2 Mrks)

.....

iii) In which structures in the gills does gaseous exchange take place? (1 Mark)

.....

b)The gills of fish and the skin of the frog are efficient in the exchange of gases. Which characteristics do they have in common? (3mks)

.....

C.)Which structures are used for gaseous exchange in plants found in marine water? 1mk

.....

3. To estimate the population size of crabs in a certain lagoon, traps were laid at random. 400 crabs were caught marked and release back into the lagoon. Four days later traps were laid again and 374 crabs were caught out of the 374 crabs, 80 were found to have been marked.

a) Calculate the population size of the crabs in the lagoon (2mks)

b) State **two** assumptions that were made during the investigations. (2 Mrks)

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.....

c) What is the name given to this method of estimating the population size? (1 Mark)

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d) State **one** precaution to be taken when carrying out this method of estimating population size. (1 Mark)

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e) Give **two** other methods used in estimating population size. (2 Mrks)

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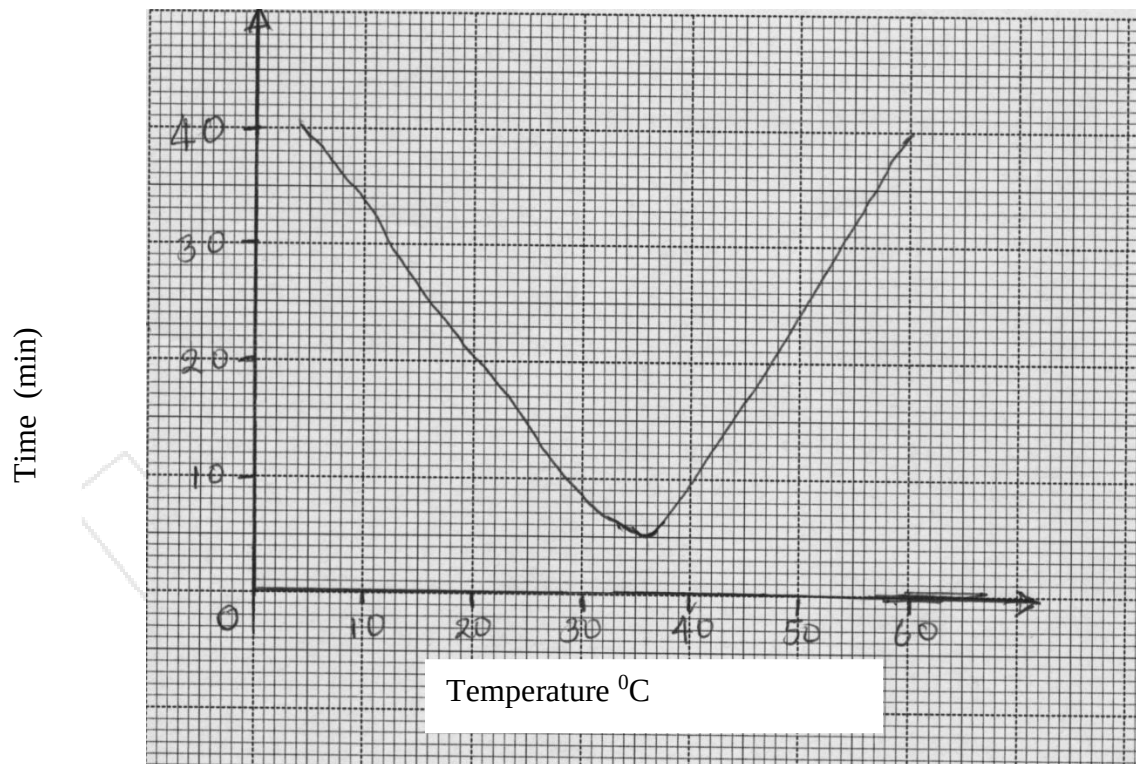
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4. (a) Define the term Denature. (1mk)

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- b** In an experiment to investigate the action of pepsin on egg albumen, equal amount of pepsin were added to equal amounts of egg albumen in different test-tubes. The test tubes were placed in water baths at different temperatures. The graph below shows time taken for the enzyme to digest protein in each .



- i)** What is the optimum temperature for the enzyme?

1mk

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- ii)** Account for the time taken to digest egg albumen at 55°C.

2mk

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- c.(i)** In which form is the enzyme pepsin secreted

1 mk

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- (ii)** Give a reason for your answer in c (i) above.

1mk

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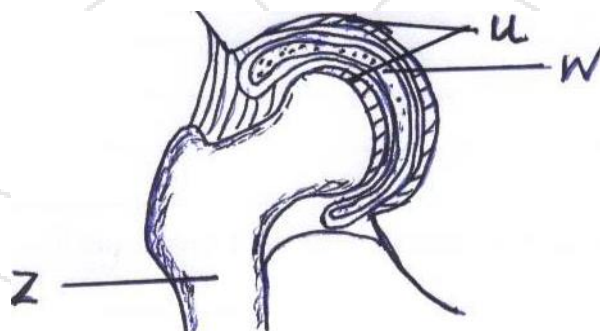
d) Name two plant tissues which lack chloroplast.

2mks

e.)State the function of the horny pad in herbivorous feeding

1mk

5.The diagram below represents one of the joints in the mammalian skeleton.



(a) Name the type of joint shown in the diagram.

(1mk)

(b) Name the parts labeled Z and U.

(2mks)

Z:

U:

(c) Name two parts of the body where this type of joint is found.

(2mks)

(d) State the functions of the fluid found in W.

(2mks)

(e) Name the type of muscles found in the gut.

(1mk)

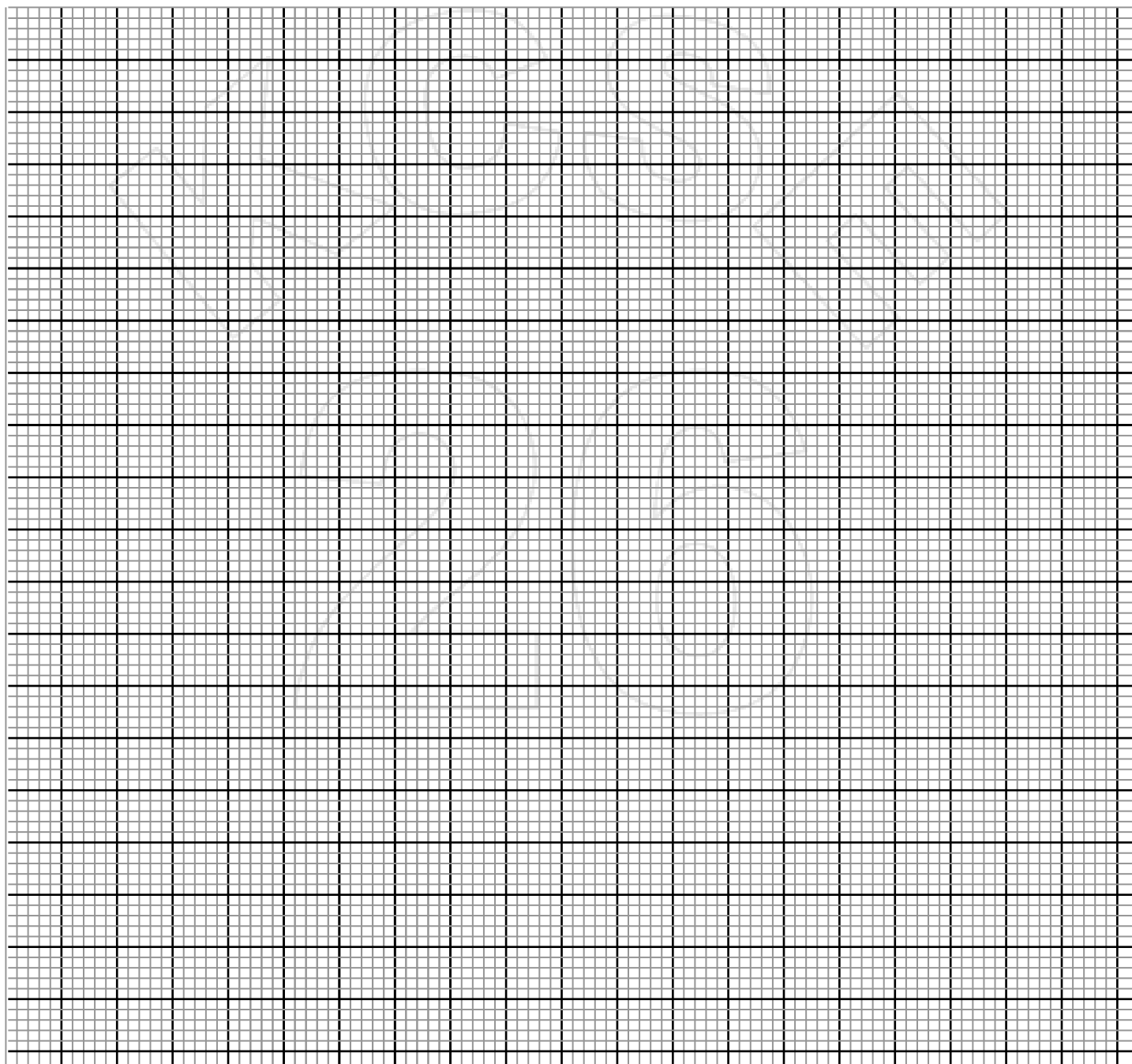
SECTION B

Answer questions 6 and either question 7 or 8 in the spaces provided after question 8.

6. The table below shows how the quantities of sweat and urine vary with external temperature.

External temperature	0	5	10	15	20	25	30	35
Urine cm ³ /h	100	90	80	70	60	50	40	30
Sweat cm ³ /h	5	6	10	15	30	60	120	200

- (a)** Using the same axes, draw graphs of quantities of urine and sweat produced against the external temperature **(7mks)**



(b) At what temperature are the amounts of sweat and urine produced equal? **(1mk)**

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(c) Account for the amount of sweat produced as the temperature rises. **(3mks)**

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(d) Explain the observation made on the amount of urine produced as the temperature rises. **(4mks)**

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(e) Explain how the following help in temperature regulation when its cold:

(i) Hair **(3mks)**

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(ii) Blood vessels **(3mks)**

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7. How is the ear adapted to its function? **(20mks)**

8(a) Explain what happens to a flower after fertilization **(4mks)**

(b) Describe how fruits and seeds are suited to their models of dispersal **(16mks)**

KCSE 2026 TOPGRADE PREDICTION

(BLUEPRINT REPLICA OF KCSE 2026 EXAMINATION)

BIOLOGY

231/3

PAPER 3 (PRACTICAL)

TIME: 1¾ HOURS

SCHOOL..... SIGN.....

Kenya Certificate of Secondary Education.

CONFIDENTIAL INSTRUCTIONS

These instructions are to enable the head of institution and the teacher in charge of biology to make adequate preparations for 231/3 Biology Practical

No one else should have access to this information either directly or indirectly.

Each candidate requires the following

- 30 ml of solution K (mixture of starch and albumin)
- 3 ml of solution M3 (enzyme diastase)
- 3 ml of solution M4 (boiled enzyme diastase)
- Iodine solution (100ml)
- 6 test tubes in a test tube rack
- Specimen X (Thoracic vertebrae)
- Test tube holder
- Means of timing
- Thermometer
- Water bath (to hold two 100ml beakers simultaneously)
- Two visking tubings (each 6cm long) and threads to tie their ends
- Two 100 ml beakers

Access to

- Means of heating
- Sodium hydroxide solution (10%)
- Copper (II) sulphate solution (1%)
- Iodine solution
- Benedict's solution

KCSE 2026 TOPGRADE PREDICTION

(BLUEPRINT REPLICA OF KCSE 2026 EXAMINATION)

BIOLOGY

231/3

PAPER 3 (PRACTICAL)

TIME: 1¾ HOURS

NAME.....

SCHOOL..... SIGN.....

INDEX NO..... ADM NO.....

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

1. Write your name and admission number in the spaces provided above.
2. Sign and write date of examination in spaces provided.
3. Answer all questions in the spaces provided in the question paper
4. You are not allowed to start working with the apparatus for the first 15 minutes of the 1 & ¾ hours allowed for this paper. This time is to enable you to read the question paper and make sure you have all the chemicals and apparatus that you may need.

FOR EXAMINERS USE ONLY

Section	Question	Maximum score	Candidates score
	1	15	
	2	15	
	3	10	
TOTAL SCORE		40	

1. You are provided with three solutions K, M3 & M4. M3 is the same as M4 except that M4 is boiled. You are also provided with 2 visking tubing, piece of thread, two beakers, 6 test tubes in a rack, thermometer, test tube holder and the following solutions; iodine, sodium hydroxide, copper(II) sulphate and Benedict's.

(a) Tie one end of the visking tubing tightly using a thread. Put 10ml of solution K and 1 ml of solution M3 into the visking tubing. Tie the other end of the visking tubing. Place the visking tubing in a beaker half filled with iodine solution. Take a second visking tubing and repeat the same using M4. Place the beakers containing the visking tubing in a water bath maintained between $(35 - 38)^{\circ}\text{C}$. Allow the set-ups to stand for 30minutes. Then after 30 minutes remove the visking tubings and test their contents and those of the beakers.

SAMPLE 1 (K + M3)

(6 MARKS)

CONTENTS IN	TEST	OBSERVATION	CONCLUSION
VISKING TUBING	Iodine test		
	Benedict's test		
	Biuret's test		
BEAKER	Iodine test		
	Benedict's test		
	Biuret's test		

SAMPLE 2 (K + M4) (6MARKS)

CONTENTS IN	TEST	OBSERVATION	CONCLUSION
VISKING TUBING	Iodine test		
	Benedict's test		
	Biuret's test		
BEAKER	Iodine test		
	Benedict's test		
	Biuret's test		

(b)Account for the results in:

(i) Table 1

(1mark)

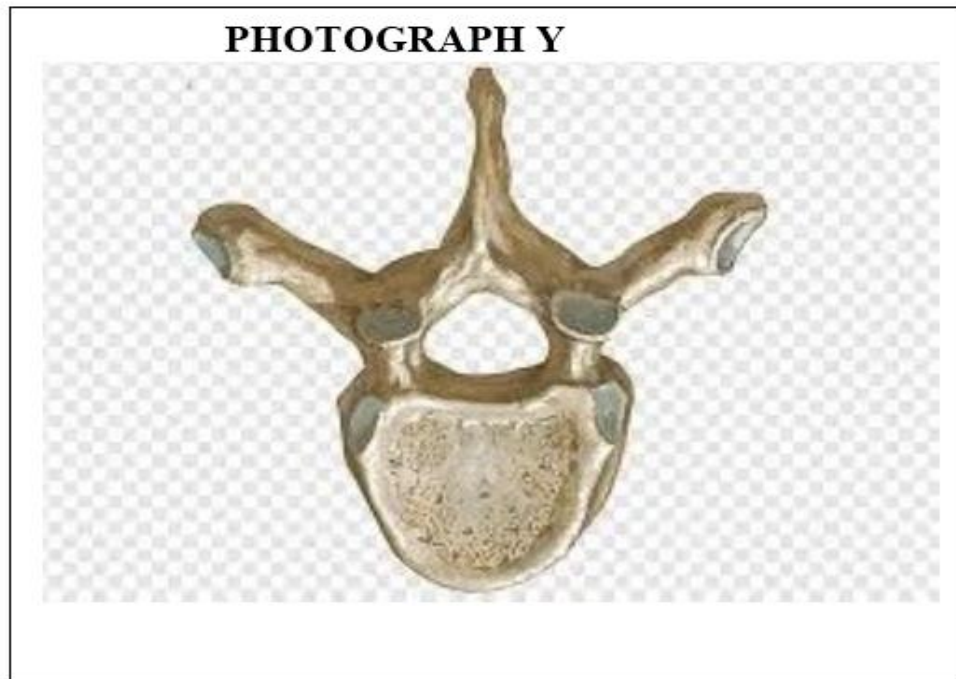
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(ii) Table 2

(2mrks)

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2. You have been provided with specimen labelled X. The specimen and the photograph of Y are obtained from the same animal. Use them to answer the question that follow.



a) Giving two reasons identify Y.

(i) Identity

(1mark)

.....

(ii) Reasons

(2mrks)

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b) Give two adaptations of the specimen labelled X

(2mrks)

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c) State two observable differences between X and Y

(2mrks)

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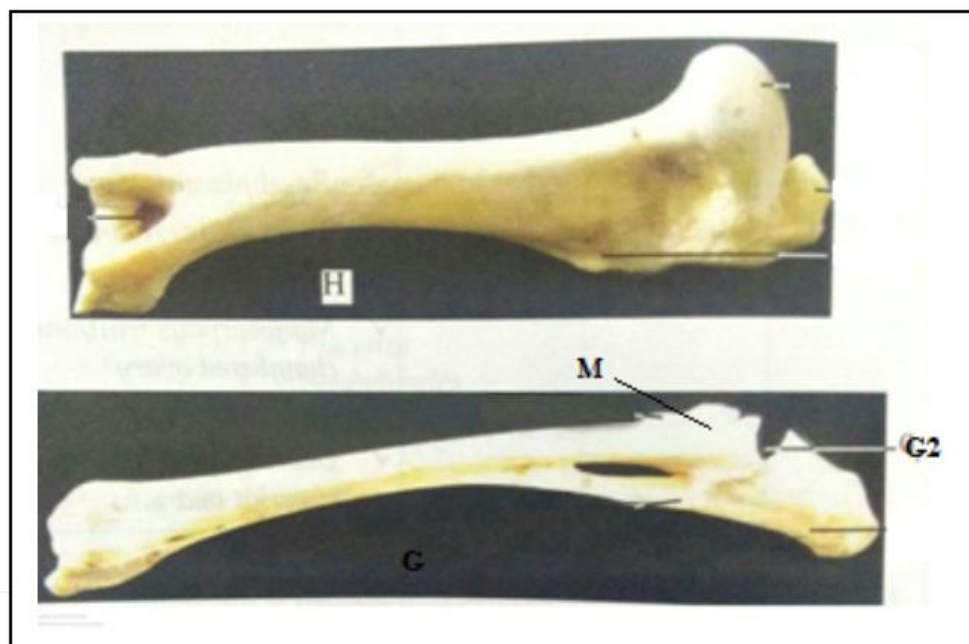
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d) Make a drawing showing the anterior view of X and label all the parts

(4mrks)

e) The photograph below shows bones from another animal



(i) Which part of the body was H obtained from

(1mark)

(ii) Identify G2

(1mark)

(iii) With a reason name the type of joint at the proximal end of specimen H

(2mrks)

3. Study the photographs below and answer the questions that follow

PHOTOGRAPH W



PHOTOGRAPH M



a) Name the type of relationship in:

(i) Photograph W

(1mark)

.....

(ii) Photograph M

(1mark)

.....

.....

b) Explain your answer in a(ii) above

(2mrks)

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c) What is the importance of the relationship taking place in the photograph W

(1mark)

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d) Using observable feature only explain two ways in which the flower is adapted for the activity taking place in photograph M

(2mrks)

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e).(i) Give the biological term used to refer to the phenomenon captured in photograph W between organisms A and B towards C

(1mark)

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(ii) State two implications of the phenomenon mentioned in d(i) above

(2mrks)

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KCSE 2026 TOPGRADE PREDICTION

(BLUEPRINT REPLICA OF KCSE 2026 EXAMINATION)

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 space provided above*
- b) Sign and write the date of examination in the spaces provided above*
- 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
1-29	80	
Total score	80	

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

1. An element K has atomic number 20 while element M has atomic number 8.

a) Write the electronic configuration for K and M

K

..... **1/2mark**

M

..... **1/2mark**

b) Write the symbol of the most stable ion of K and M

K..... **1/2mark**

M..... **1/2mark**

2. Molten Lead (II) bromide is electrolyzed using carbon electrodes. Write the half equations of the reactions that occur at the anode and the cathode.

a) Anode **1mark**

.....
.....

b) Cathode **1mark**

.....
.....

3. Nitrogen (I)oxide gas can be prepared in the laboratory using a mixture of ammonium chloride solution and sodium nitrate solution.

(a) The reaction occurs in two steps. State the two steps in the correct order. **(2 marks)**

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.....
.....

(b) State one use of nitrogen (I) oxide **(1 mark)**

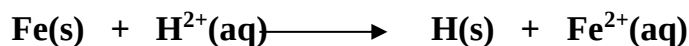
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4. The standard electrode potentials of a metal **H** and **Iron** are given below.



Is the reaction below visible? Show your **working**

(2 marks)

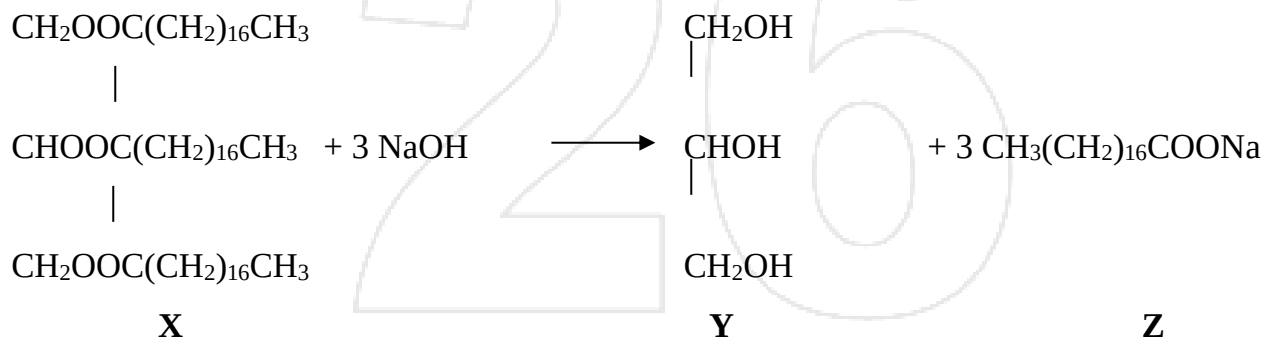


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5. Some sodium chloride was found to be contaminated with copper (II) oxide. Describe how a sample of sodium chloride can be separated from the mixture. **2marks**

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6. Study the equation below and answer the questions that follow:



a) What type of reaction is this? **(1 mark)**

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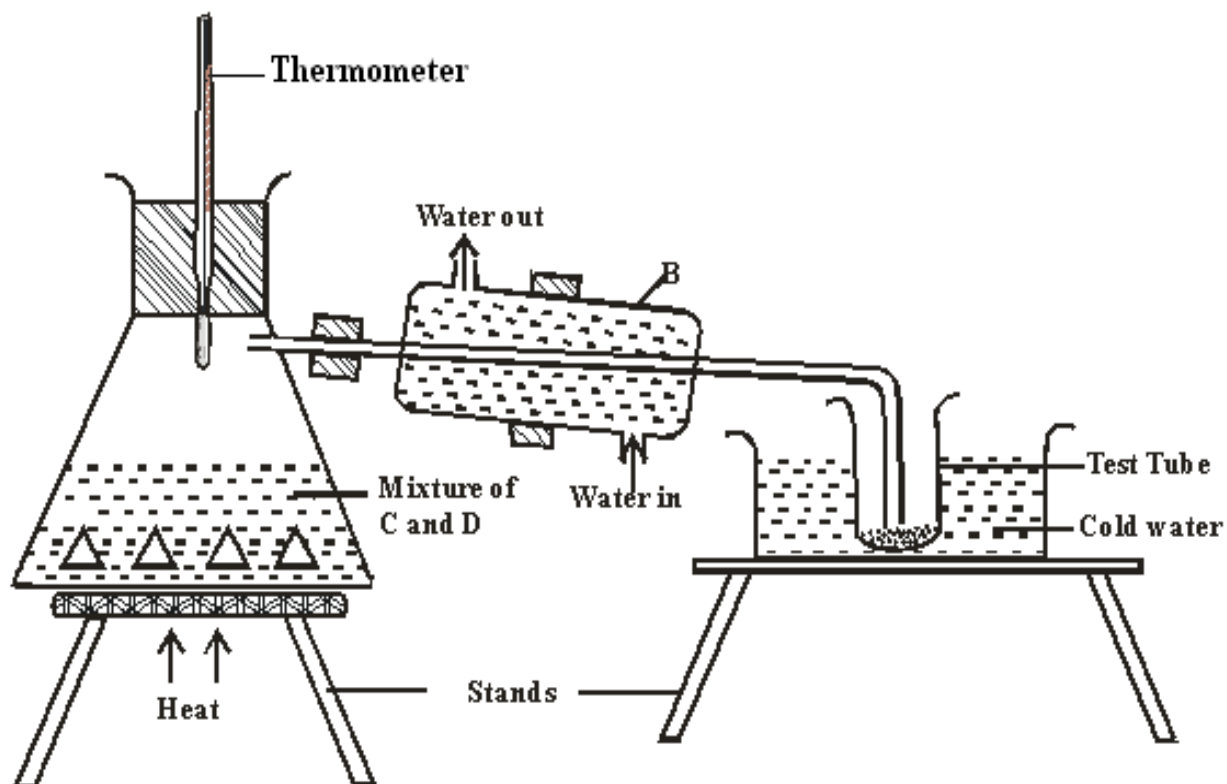
b) What class of organic compounds does **X** belong? **(1 mark)**

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c) Explain the role of sodium chloride in the manufacture of soap. **(1 mark)**

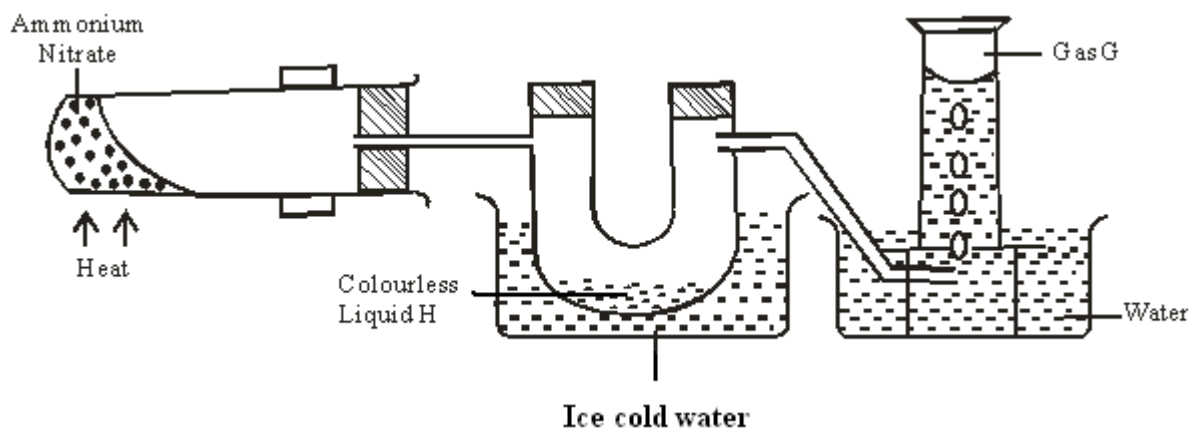
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7. The set up below represents the apparatus that may be used to separate a mixture of two miscible liquids C and D whose boiling points are 80°C and 110°C .



- a) Name B 1mark
-
- b) What is the purpose of the thermometer 1mark
-
-
- c) Which liquid was collected in the test tube? 1mark
-
8. Draw a dot (.) and cross (x) diagram to show bonding in carbon (II) oxide. 2marks

9. Ammonium nitrate was gently heated and the products collected as shown in the diagram.



a) Identify:

i. Colourless liquid H

.....

1mark

ii. Gas G

.....

1mark

b) Describe one physical and one chemical test that can be used to identify gas G.

2marks

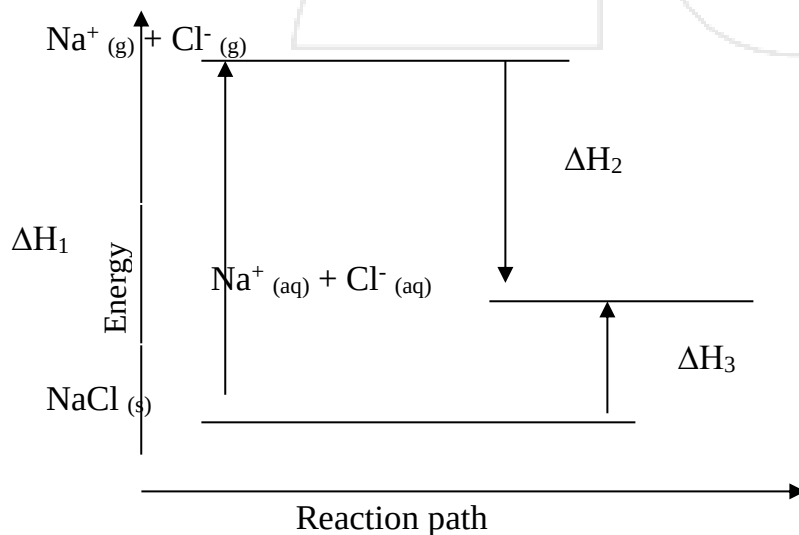
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10. The diagram below shows the energy changes that occur when sodium chloride dissolves in water. Study it and answer the questions that follow.



a) What do ΔH_1 , ΔH_2 and ΔH_3 represent?

(1½ mark)

ΔH_1

ΔH_2

ΔH_3

b) Given that the lattice energy of $\text{NaCl}_{(s)}$ is -776 kJmol^{-1} and hydration energies of $\text{Na}^+_{(g)}$ and $\text{Cl}^-_{(g)}$ are -407 kJmol^{-1} and -364 kJmol^{-1} respectively. Calculate the heat of solution (ΔH_{sol}) of 1 mole $\text{NaCl}_{(s)}$.

(1½ mark)

11. Name the following substances.

a) $\text{CH}_2\text{CHCH}_2\text{CH}_3$

1mark

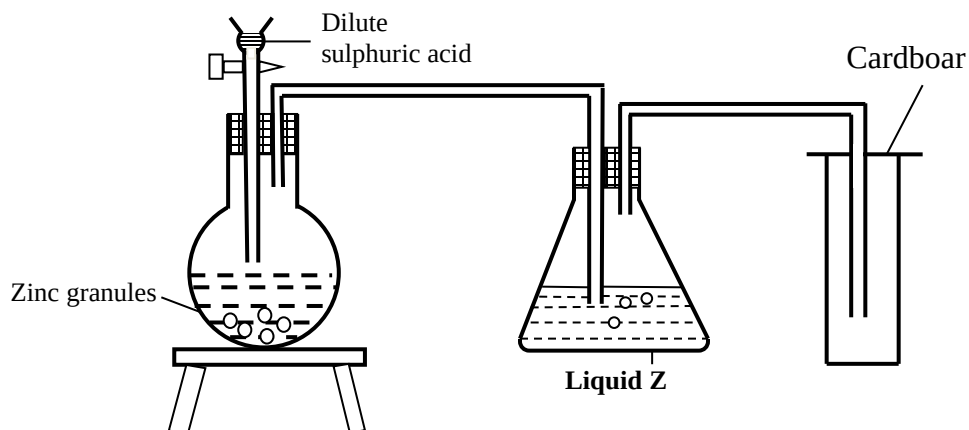
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b) $\text{CH}_3\text{CHCHCH}_2\text{CH}_3$

1mark

.....

12. The set up below was used to prepare dry hydrogen gas. Study it and answer the questions that follow.



(i) Identify one mistake in the set-up above. (1/2 mark)

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(ii) What is the role of Liquid Z? (1/2 mark)

.....

(iii) Using an equation give one chemical property of hydrogen gas (1 mark)

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13. Study the information in the table below and answer the questions that follow. The letters do not represent the actual symbols of the elements.

Substance	Solubility in water	Electrical conductivity	
		Solid	Molten
A	Insoluble	Good	Good
B	Soluble	Poor	Good
C	Insoluble	Poor	Poor

i) Which of the substances is highly likely to be sodium chloride? Explain 1mark

.....

.....

ii) What type of bond exists in substance A? 1mark

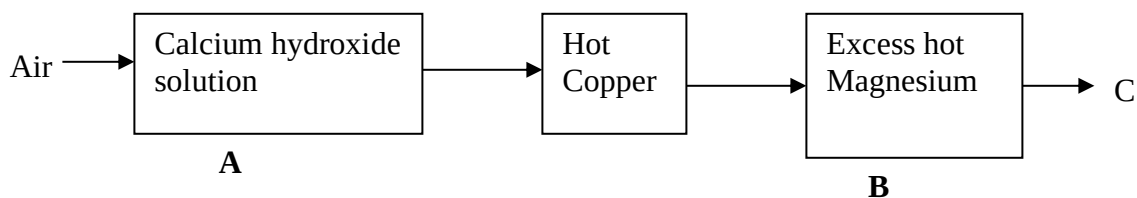
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iii) State a possible structure in substance C? 1mark

.....

14. Laboratory results showed the composition of a compound to be 58.81% barium, 13.72%, sulphur and 27.47% Oxygen. Calculate the empirical formula of the compound. Ba=137, S = 32, O = 16. 2marks

15. Air was passed through reagents as shown below.



i) **State** and explain the observations made when air is passed over hot copper. **(2 mrks)**

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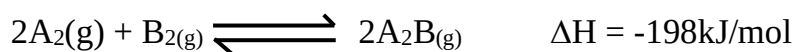
ii) Write the equation for the reaction taking place in chamber **B** **(1 mark)**

.....

.....

16. 200cm³ of oxygen gas took 60 seconds to diffuse through a porous plug. Determine the time taken by 300cm³ of sulphur (IV) oxide to diffuse through the same plug under the same conditions.
(O=16, S = 32) **3marks**

17. Study the following equilibrium equation.



(a) Suggest two ways of increasing the yield of A₂B. **(1 mark)**

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(b) Draw the energy level diagram for the reverse reaction.

(2 mrks)

18. Explain giving reasons why?

a) Sulphuric(vi) acid is not used with marble in the preparation of carbon (iv) oxide **2marks**

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.....

b) Water cannot be used to extinguish oil fire.

1mark

.....

.....

19. A gas occupies 4dm^3 at -23°C and 152 mmHg. At what pressure will its volume be halved, if the temperature then is 227°C .? **2marks**

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20. a) Sodium, Magnesium and Aluminium are elements in the periodic table. Explain why aluminium has a higher melting and boiling point than sodium and magnesium. **2marks**

.....

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- b)** The ionization energy of an atom is strongly influenced by three atomic parameters. State two of these parameters. **2marks**

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- 21.** 15cm³ of a solution containing 2.88g/dm³ of an alkali XOH completely reacts with 20cm³ of 0.045M sulphuric acid. Calculate the molarity and relative atomic mass of X present in the alkali.

3marks

- 22.** Describe how a solid sample of calcium sulphate can be prepared using the following reagents; dilute nitric (v)acid, dilute sulphuric (vi) acid and solid calcium carbonate **4marks**

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- 23.** Crude oil is the main source of organic compounds such as hydrocarbons. The hydrocarbons in the crude oil have to be separated.

- a)** Name two important hydrocarbons obtained from crude oil. **2marks**

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- b)** Give the uses of the two hydrocarbons named in (a) above. **2marks**

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24. A radioactive isotope **M** decays by emitting two alpha particles and a beta particle to form $^{206}_{83}\text{Y}$.

a) What was the atomic number **M** (1 mark)

b) After 224 days $\frac{1}{16}$ of mass of **M** remained. Determine the half-life of **M**. (2 marks)

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

.....

25. Dilute sulphuric acid was added to a compound X, of magnesium. The solid reacted with the acid to form a colourless solution, Y and a colourless gas Z which formed a white precipitate when bubbled through lime water.

Name:-

(i) Compound X 1mark

.....

(ii) Solution Y

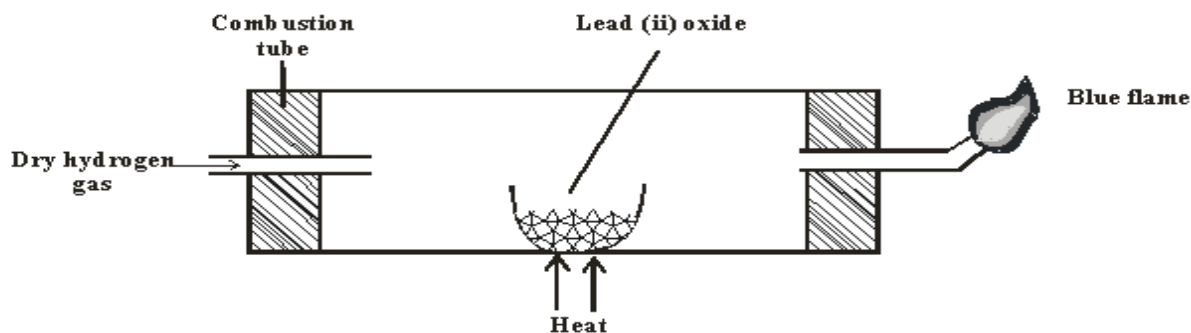
(iii) 1mark

.....

(iv) Colourless gas Z 1mark

.....

26. When dry hydrogen gas passed over heated Lead (II) oxide in combustion tube, a grey solid was formed.



a) Identify the grey solid.

1mark

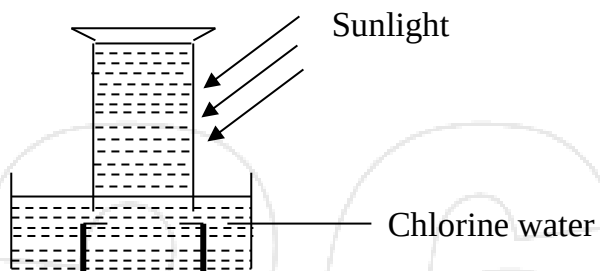
b) Write the equation of the reaction taking place in the combustion tube.

1mark

c) Write the equation involving the blue flame.

2marks

27. The diagram below shows an experiment involving chlorine water.



a) Chlorine water is a mixture of two acids. Explain using a chemical equation.

(1 mark)

b) State and explain the observation that was made after 24 hours.

(1 marks)

c) Write an equation for the reaction that took place in (b) above.

(1 mark)

28.

a) What is meant by the term allotropy?

1mark

.....

.....

b) Explain in terms of structure and bonding why graphite is soft with greasy feeling.

2marks

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29. Explain why hard water flowing in lead pipes may be safer for drinking than soft water flowing in the same pipes.

(2 marks)

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KCSE 2026 TOPGRADE PREDICTION

(BLUEPRINT REPLICA OF KCSE 2026 EXAMINATION)

CHEMISTRY

233/2

PAPER 2 (THEORY)

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 date of examination in the space provided.
3. All working must be clearly shown where necessary.
4. Mathematical tables and silent electronic calculations may be used
5. Answer all questions in English.

For examiners use only

Question	Candidates Score	Students Score
1	14	
2	13	
3	13	
4	11	
5	14	
6	15	
Total	80	

1. The grid below represents part of the periodic table. Study it and answer the questions that follow. The letters do not represent the actual symbol of elements.

G							
					I		V
K							
J	L			M			

a)i) Select elements which belong to the same chemical family (1mark)

.....

ii) Write the formulae of ions for two elements in the same period (1mark)

.....

b) The first ionization energies of two elements K and M at random are 577kJ/mol and 494kJ/mol.

i) Write equations for the 1st ionisation energies for elements K and M and indicate their energies

(2mrks)

.....

ii) Explain the answer in b (i)

(1mark)

.....

iii) Write the formula of the compound formed when I and L react

(1mark)

.....

iv) Give one use of element L

(1mark)

.....

c)I)How do the reactivity of elements K and L compare? Explain (2mrks)

.....

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II) Element L and M form chlorides. Complete the table by writing the formulae of each chloride and state the nature of the solutions (2marks)

Element	Formula of chloride	Nature of chloride solution
L		
M		

III)The chloride of element M vaporizes easily while its oxide has a high melting point. Explain (2marks)

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IV)Which elements forms a trivalent:

a) Cation (½mark)

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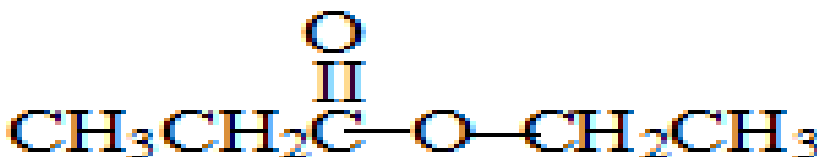
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b) Anion (½mark)

.....

.....

2.i)The following is a structure of an organic compound.



a) Which organic series does the compound belong?

(1mark)

.....

b) Give the structures and names of the reactants that form the above compound (2marks)

.....

.....

.....

ii) The table shows structural formula of some organic compounds

Compound

Structural formula

A

$\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_3$

B

$\text{CH}_3\text{CH}_2\text{COOH}$

C

CH_3CHCH_2

D

CHCCH_3

E

$\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{OH}$

a) Give the chemical test that can be used to identify compound C.

(1mark)

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b) Compare the boiling points of compound E and A

(2marks)

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c) State and explain the observation made when Sodium carbonate is added to compound G.

(2marks)

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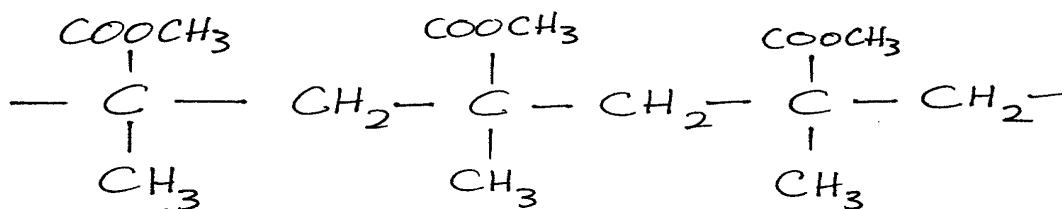
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d) Write an equation to show the reaction between compound E and magnesium metal and give the name of the product formed. **(2marks)**

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.....

e) The following is a structure of a section of a polymer



i) Draw the structure of the monomer **(1mark)**

ii) Give the name of the polymer **(1mark)**

.....

iii) State one use of the polymer. **(1mark)**

.....

3.a) Dry chlorine gas was passed over heated iron resulting in P. P was dissolved in water resulting in the formation of a solution of P. To a little of the solution P a few drops of Sodium hydroxide were added and solid Q was obtained.

I) Name substance **(2mrks)**

i) P –

ii) Q –

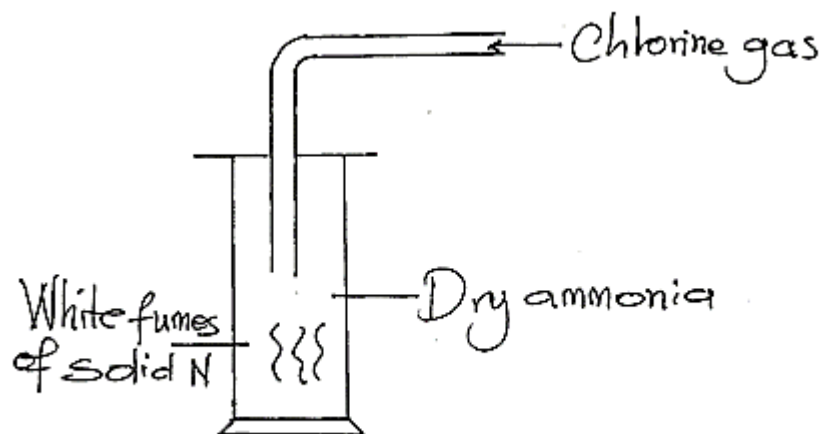
II Write equations to show how substances P and Q were formed. **(2mrks)**

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III) Name a suitable drying agent for chlorine gas **(1mark)**

.....

b) Chlorine burns in dry ammonia gas as shown in the diagram below



i) Identify solid N (1mark)

.....

ii) A colourless and odourless gas is produced. Identify the gas (1mark)

.....

iii) Write the equation for the burning of chlorine in dry ammonia gas (1mark)

.....

iv) 3g of divalent metal X (atomic mass=24) react with dilute hydrochloric acid. Calculate the volume of hydrogen gas produced at STP. (X=12, H=1 molar gas volume at STP=22.4dm³)

(3marks)

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v) When excess chlorine was bubbled into hot concentrated sodium hydroxide, the following reaction occurred. $3\text{Cl}_{2(g)} + 6\text{NaOH}_{(aq)} \rightarrow \text{NaClO}_{3(aq)} + 5\text{NaCl}_{(aq)} + 3\text{H}_2\text{O}_{(l)}$. In which product did chlorine under oxidation. Explain (2marks)

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4a) Aqueous potassium sulphate was electrolysed using platinum electrodes in a cell.

i) Shows the product formed at the anode and cathode with the help of an equation (2mrks)

Anode

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.....

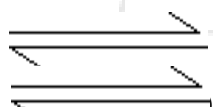
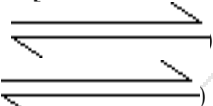
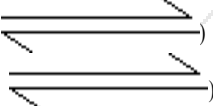
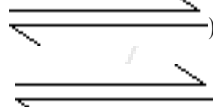
Cathode

.....
.....

ii) Why would it not be advisable to electrolyse aqueous potassium sulphate using potassium metal electrodes? (1mark)

.....
.....
.....

b) Use the standard electrode potential for elements A, B, C, D and F given below to answer that follow;

		E^0 (volts)
$A_{(aq)}^{2+} + 2e^-$		- 2.90
$B_{(aq)}^{(2+)} + 2e^-$		- 2.38
$C_{(aq)}^+ + e^-$		0.00
$D_{(aq)}^{2+} + 2e^-$		- 0.34
$\frac{1}{2}F_{2(g)} + e^-$		+ 2.87

I) Which element is likely to be hydrogen? Explain (1mark)

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.....

II) What is the E^0 value of the strongest reducing agent? (1mark)

.....
.....

III In the space provided draw a labelled diagram of the electrochemical cell that would be formed when the half cells of elements B and D are combined. (3marks)

IV Calculate the E° value of the electrochemical cell constructed in (III) above (1mark)

c) During electrolysis of aqueous copper (ii) sulphate using copper electrodes, a current of 0.2 amperes was passed through the cell for 5 hours.

i) Write an ionic equation for the reaction that took place at the anode (1mark)

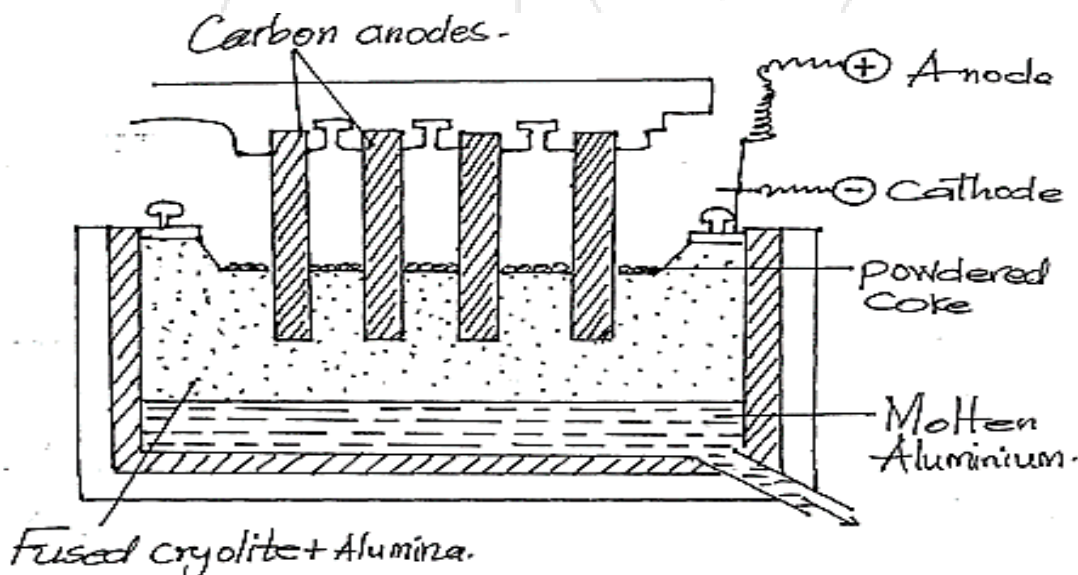
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ii) Determine the change in mass of the anode which occurred as a result of electrolysis

[$Cu = 63.5$, 1 Faraday = 96500C]

(1mark)

5.a) The diagram below represent the electrolytic cell used for extraction of aluminium.



i) Write the formula of the main ore in which aluminium is extracted (1mark)

.....

.....

ii) **Explain** why the ore is first dissolved in hot concentrated sodium hydroxide. (2marks)

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iii) Write equations for the reactions that takes place at

I) The anode (1mark)

.....

.....

II) The cathode (1mark)

.....

.....

iv) State why the graphite lining is used as the cathode (1mark)

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.....

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v) **Give** two reasons for mixing aluminium oxide with cryolite in the electrolyte cell (2marks)

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b) Aluminium is resistant to corrosion while iron corrodes very fast.

I) Why is aluminium not used to make window frames? (1mark)

.....

.....

II) State one reason why galvanised iron is resistant to corrosion even when the protective surface of zinc is broken? (1mark)

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III) Write an equation to show the reaction between aluminium and concentrated sodium hydroxide solution (1mark)

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IV) Explain how one would obtain aluminium oxide given the following; aluminium chloride solid, sodium hydroxide solid and distilled water. (3marks)

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6.a) What are isotopes (1mark)

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b) The table below shows the isotopic composition of naturally occurring neon

particle	$^{22}_{10}\text{Ne}$	$^{21}_{10}\text{Ne}$	$^{20}_{10}\text{Ne}$
% Abundance	9.2	0.3	90.5

i) Which is the most stable isotope of Neon? Explain (2marks)

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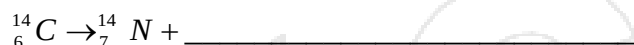
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ii) Calculate the relative mass of Neon

(2mrks)

iii) Balance the nuclear equation below



(1mark)

iv) Distinguish between nuclear fission and nuclear fusion.

(1mark)

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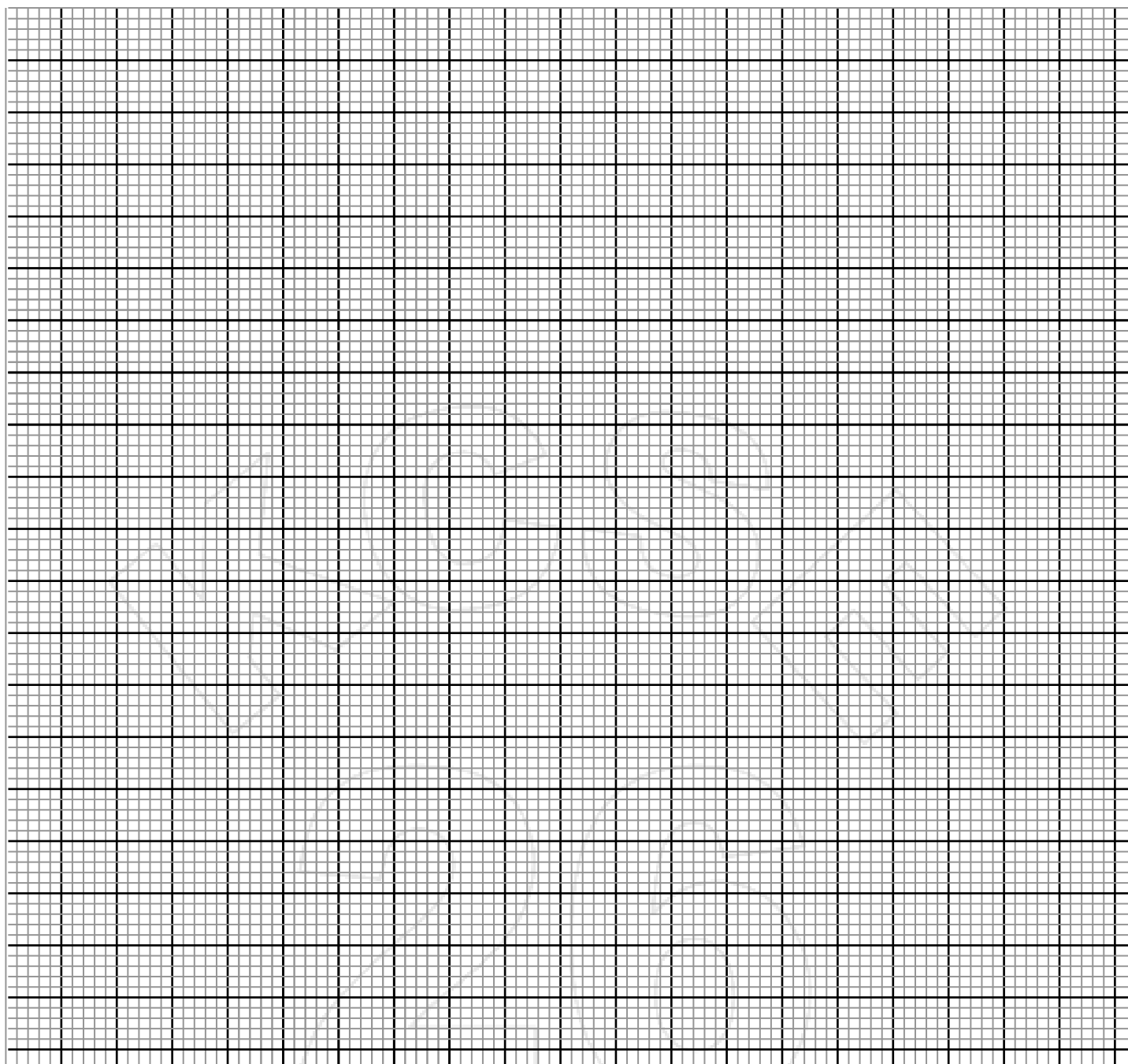
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c) Bismuth undergoes radioactive decay. The table below shows the mass of Bismuth remaining at different times.

Time (min)	0	6	12	22	38	62	100
mass of Bismuth remaining (g)	50	41.5	32.5	23	14.5	6	1.5

i) Plot a graph of mass of bismuth remaining (vertical axis) against time.

(3arks)



ii) From the graph determine

I) Mass of Bismuth remaining after 30 minutes

(1mark)

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.....
.....

II) The half life of bismuth

(1mark)

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III)What would happen to the rate of disintegration of bismuth if the temperature is increased?

Explain

(2mrks)

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d) State one application of radio isotopes in agriculture

(1mark)

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26

KCSE 2026 TOPGRADE PREDICTION

(BLUEPRINT REPLICA OF KCSE 2026 EXAMINATION)

CHEMISTRY

233/3

PAPER 3 (PRACTICAL)

TIME: 2¼ HOURS

SCHOOL..... SIGN.....

Kenya Certificate of Secondary Education.

CONFIDENTIAL

Each student requires:

- Spatula
- 6 test tubes
- Litmus paper
- 2 boiling tube
- 4.5g of solid A in a boiling tube.
- 150cm³ solution B, 0.06M acidified potassium manganate (vii)
- One burette
- One pipette
- Thermometer (-10—110oc)
- Test tube holder
- Distilled water
- 250ml volumetric flask
- Label
- Sodium carbonate- 0.2g
- Solid F
- Solid P
- Solid J

ACCESS TO:

- Source of heat
- Universal indicator
- 0.5M barium nitrate

- 2.0M hydrochloric acid
- Wire gauge
- Tripod stand
- Bromine water
- Acidified potassium dichromate (vi)
- Nitric (v) acid-2M
- Lead (ii) nitrate
- 2M NaOH
- Sodium carbonate solution

NOTES:

- ✓ All solutions should be supplied with droppers.
- ✓ Solution B, 0.06M acidified Potassium manganate (vii) is prepared by dissolving 9.48g of potassium manganate (vii) crystals in 400.0cm³ of 2.0M H₂SO₄ and diluting with distilled water to a litre.
- ✓ Solid A is oxalic acid.
- ✓ Solid F; 1.5g Benzoic acid.
- ✓ Solid P; prepared by mixing equal amounts of ammonium sulphate and Aluminium sulphate in a dry beaker.
- ✓ Solid J; 0.2g magnesium powder.

KCSE 2026 TOPGRADE PREDICTION

(BLUEPRINT REPLICA OF KCSE 2026 EXAMINATION)

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 above.
2. Sign and write the date of examination in the spaces provided above
3. Answer all the questions in the spaces provided in the question paper.
4. You are not allowed to start working with the apparatus for the first 15mins of the 2¼ hours allowed for this paper. This time is to enable you to read the question and make sure you have all the chemicals and apparatus you may need.
5. All working must be clearly shown where necessary.
6. Mathematical tables and silent electronic calculators may be used.

For examiners use only

Question	Maximum score	Candidate's score
1	22	
2	9	
3	9	
Total	40	

1. You are provided with:

- 4.5g of solid A in a boiling tube.
- Solution B, 0.06M acidified potassium manganate (VII)

You are required to determine:-

- 1) The solubility of solid A at different temperature.
- 2) The number of moles of water of crystallization in solid A.

Procedure

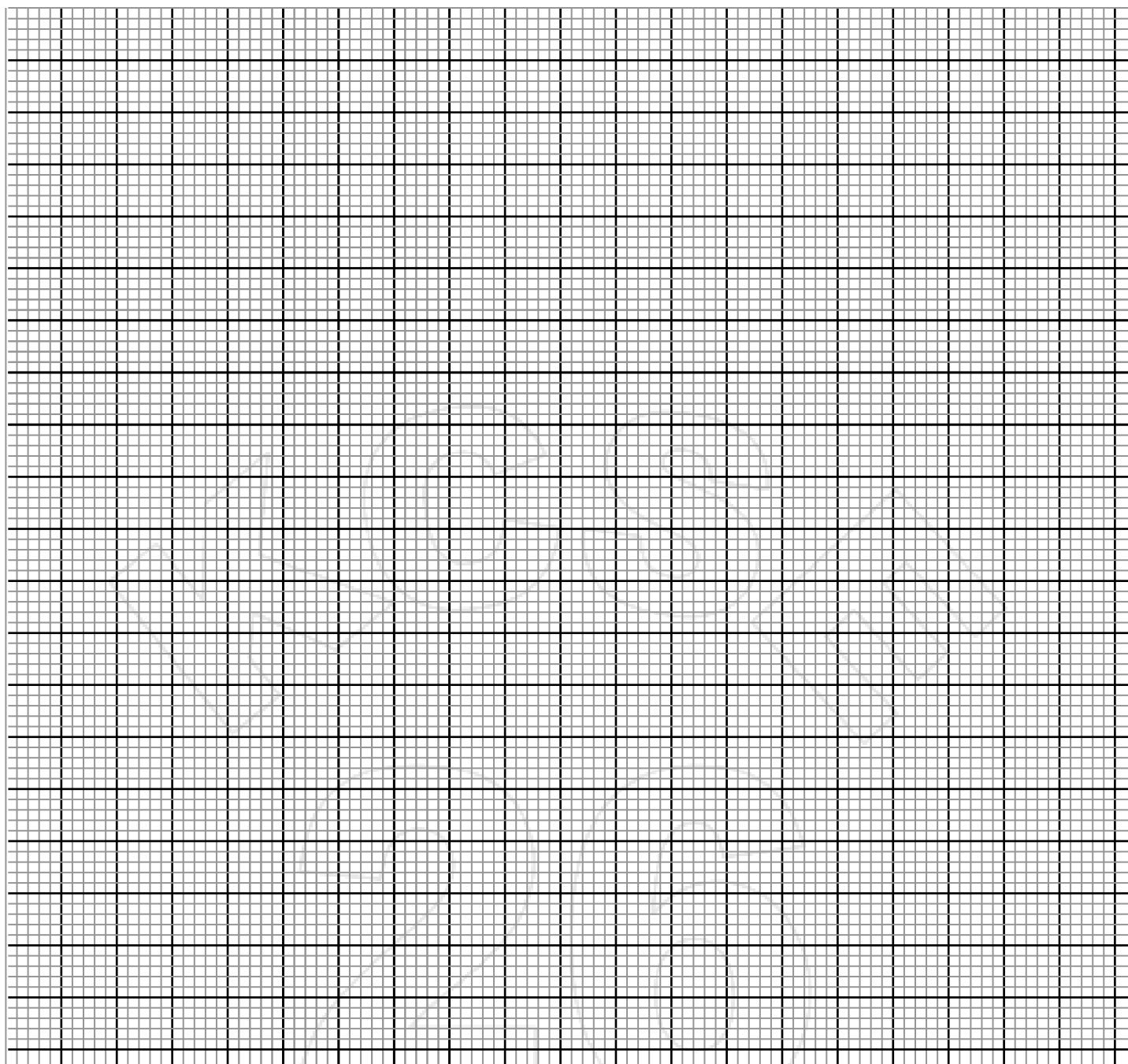
- (a) Using a burette, add 4cm³ of distilled water to solid A in the boiling tube. Heat the mixture while stirring with the thermometer to about 70°C. When all the solid has dissolved allow the solution to cool while stirring with the thermometer. Note the temperature at which crystals of solid A first appear. Record this temperature in table I.
- (b) Using the burette, add 2.0cm³ of distilled water to the contents of the boiling tube. Warm the mixture while stirring with the thermometer until all solid dissolves. Allow the mixture to cool while stirring. Note and record the temperature at which crystals of solid A first appear.
- (c) Repeat procedure (b) two more times and record the temperatures in the table I. **Retain the contents of the boiling tube for use in procedure (e)**
- (d) (i) Complete table I by calculating the solubility of solid A at different temperatures. The solubility of a substance is the mass of that substance that dissolves in 100cm³ (100g) of water at a particular temperature.

Table I

Volume of water in the boiling tube (cm ³)	Temperature at which crystals of solid A first appear	Solubility of solid A (g/100g water)
4		
6		
8		
10		

(6 marks)

- (ii) On the grid provided, plot a graph of solubility of solid A against temperature **(3 marks)**



(iii) Using your graph

I) Determine the temperature at which 100g of solid A would dissolve in 100cm³ of water.

(1 mark)

II) Calculate the mass of solid A that will crystallize out when a hot solution at 60°C cooled to 40°C.

(1 mark)

(e) (i) Transfer the contents of the boiling tube into 250ml volumetric flask. Rinse both the boiling tube and the thermometer with distilled water and add to the volumetric flask. Add more distilled water to make up to the mark. Label this solution A. Fill burette with solution B. Using a pipette and pipette filler, place 25.0cm³ of solution A into a conical flask. Warm the mixture to about 60°C. Titrate the hot solution A with solution B until a permanent pink colour persists. Record your readings in table 2. Repeat the titration two more times and complete table 2.

Table 2

	I	II	III
Final Burette reading			
Initial Burette reading			
Volume of solution B used (cm ³)			

(4 marks)

Calculations:-

I) Average volume of solution B used.

(1 mark)

II) Number of moles of potassium manganate (VI)) used.

(1 mark)

III) Number of moles of A in 25.0cm³ of solution A given that 2 moles of potassium manganate (VII) react completely with 5 moles of A.

(1 mark)

IV) Relative formula mass of A.

(2 marks)

(ii) The formula of A has the form $D \cdot XH_2O$. Determine the value of X in the formula given that the relative formula mass of D is 90 and atomic mass of oxygen and hydrogen are 16.0 and 1.0g respectively. **(2 mks)**

Question 2

a) You are provided with solid P. Carry out the tests below. Record your observations and inferences. Test for any gases evolved.

1. Put a third of solid P in a clean dry test tube and heat.

Observation	Inference
$\frac{1}{2}$ mk	$\frac{1}{2}$ mk

i) Put the remaining solid P in a boiling tube. Add about 5cm³ of distilled water and shake. Divide the resulting solution into four portions.

Observation	Inference
1 mk	1mk

ii) To the first portion, add 1cm³ dilute nitric acid followed by barium nitrate solution.

Observation	Inference
1 mk	1mk

iii) To the third portion add sodium hydroxide solution drop wise until in excess. Test any gases using litmus paper.

Observation	Inference
1 mk	1mk

iv) To the first portion, add 1cm³ sodium calcium solution.

Observation	Inference
1 mk	1mk

Question 3

You are provided with solid F. Carry out the test below write your observations and inferences in the spaces provided. Test for any gases evolved.

Place all solid F provided in a dry boiling tube. Add 15cm³ of distilled water, shake thoroughly warm to dissolve completely. Divide the solution into five portions.

i) To the first portion add solid J provided.

Observation	Inference
1 mk	1 mk

ii) To the second portion add a spatula end full of sodium carbonate

Observation	Inference
1 mk	1mk

iii) To the third portion add two drops of bromine water.

Observation	Inference
1 mk	1mk

iv) To the fourth portion add three drops of acidified potassium dichromate(vii)

Observation	Inference
1mk	1mk

v) To the fifth portion add two drops of universal indicator solution.

Observation	Inference
$\frac{1}{2}$ mk	$\frac{1}{2}$ mk

KCSE 2026 TOPGRADE PREDICTION

(BLUEPRINT REPLICA OF KCSE 2026 EXAMINATION)

PHYSICS

232/1

PAPER 1 (THEORY)

TIME: 2 HOURS

NAME.....

SCHOOL..... SIGN.....

INDEX NO..... ADM NO.....

Kenya Certificate of Secondary Education.

Instruction to The Candidates

- a)** Write your **name** and **ADM number** 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 **A** and **B**.
- d)** Answer **all** the questions in sections **A** and **B** in the spaces provided.
- e)** All working must be clearly shown in the spaces provided.
- f)** Mathematical tables and electronic calculators **may be** used.

For Examiners Use Only

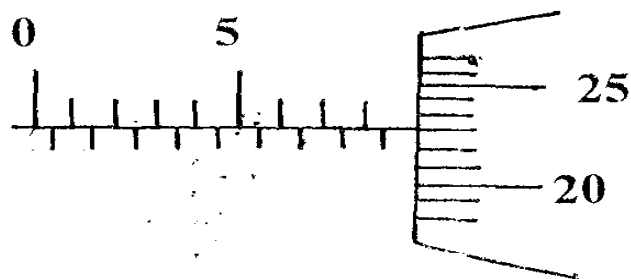
Section	Question	Total Score	Candidates Score
A	1-12	25	
B	13	09	
	14	09	
	15	09	
	16	10	
	17	09	
	18	09	
Total		80	

SECTION A (25 MARKS)

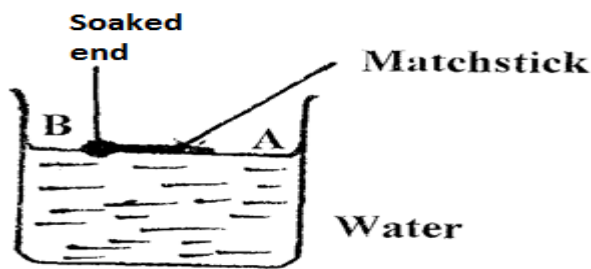
1. The figure shows the reading of micrometre screw gauge that has a zero error of -0.25mm .

What is the actual length of the object being measured

(2marks)



2. The figure below shows a matchstick soaped on one end and placed on the surface of clean water as shown.



The matchstick is observed to move towards a certain direction

- i) State the direction (A or B)

(1mark)

.....

- ii) Explain

(1mark)

.....

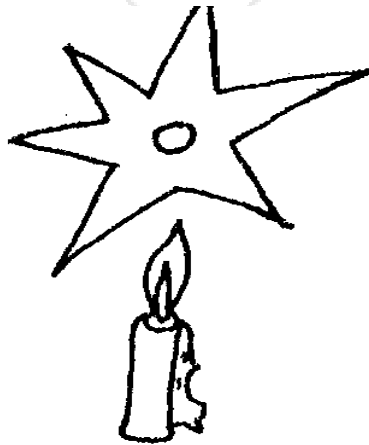
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3. Two liquid X and Y have density 1.25g/cm^3 and 1.5g/cm^3 respectively. Calculate to 2d.p the density of the mixture containing 40% by mass of X the rest being Y

(3marks)

4. A uniform meter rule pivoted at its 15cm mark is balanced by a 200g mass suspended at the 5cm mark. Determine the weight of the meter rule (3marks)

5. A paper windmill in a horizontal axis was placed about a candle as shown in the figure



When the candle was lit the paper windmill began to rotate. Explain this observation.(2marks)

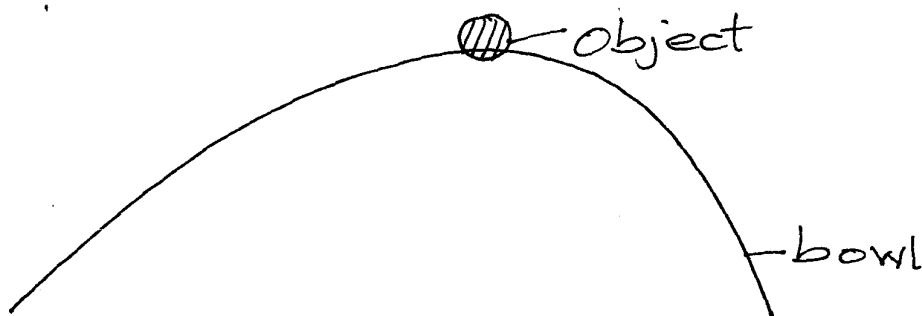
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6. An object was placed on an inverted bowl as shown.



i) State the type of stability above.

(1mark)

.....

ii) Define the type stability above.

(1mark)

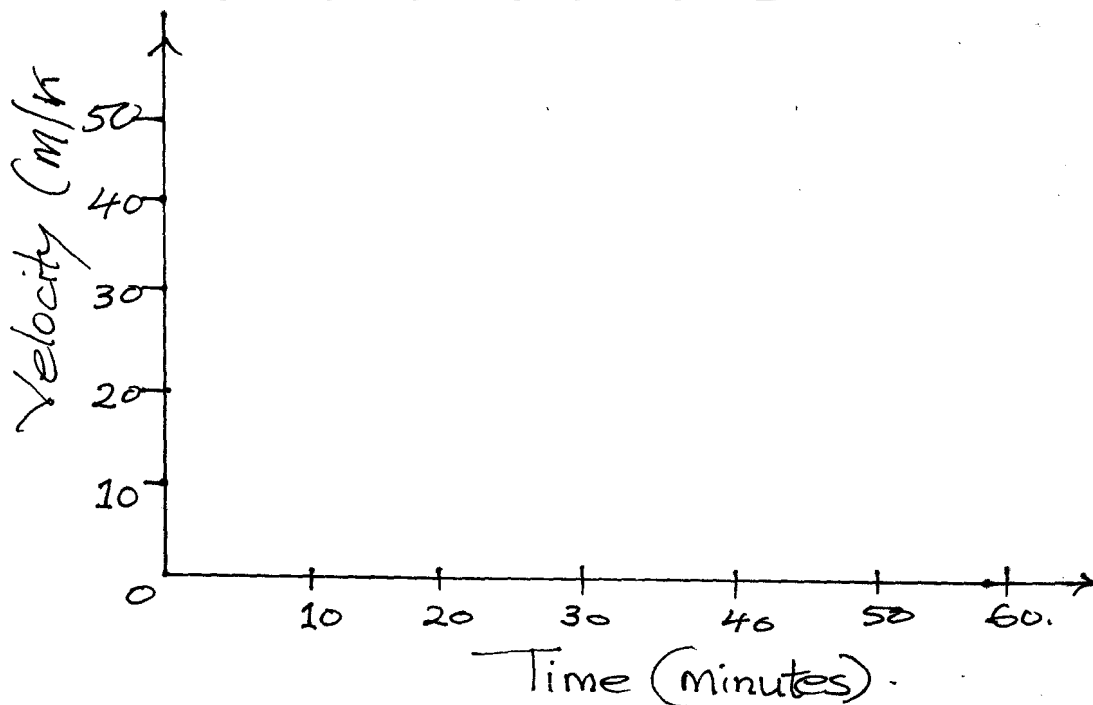
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7. A pipe of diameter 12mm is connected to another pipe of radius 9mm. if water flows in the wider pipe at the speed of 2m/s what is the speed in the narrow pipe.

(3marks)

8. A car starting from rest accelerates uniformly for 5minutes to reach 30m/s. It continues at this speed for the next 20minutes and then decelerates uniformly to come to stop in 10 minutes. On the axes provided sketch the graph of velocity against time for the motion of the car (1mark)



9. A diver was swimming in a swimming pool of uniform depth of 0.8m from the surface of water. If atmospheric pressure acting on the surface of water is 103000pa calculate the total pressure experienced by the diver. (density of water = 1g/cm^3 , $g = 10\text{m/s}^2$) (2marks)

10. The boiling point of water is known to be at 100°C . A student heated some water and noticed that it boiled at 101°C state two possible reasons for this observation. (2marks)

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11. Explain the difference between a liquid and a gas in terms of intermolecular distance and force. (2marks)

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12. State the source of energy for gases in the atmosphere. (1mark)

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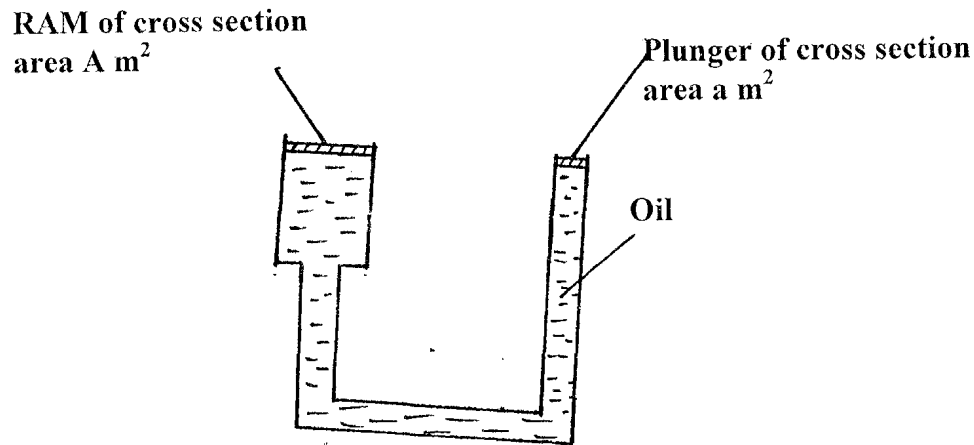
SECTION B 55 MARKS

13. Define the term velocity ratio of a machine (1mark)

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- b) Figure below shows part of a hydraulic press. The plunger is the position where effort is applied while the ram piston is the position where load is applied. The plunger has a cross-section area $a \text{ m}^2$ while the ram piston has a cross-section area $A \text{ m}^2$



When the plunger moves down a distance d , the ram piston moves up a distance d .

- i) State the property of liquid on which the working of the hydraulic press works **(1mark)**

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- ii) Derive an expression for the velocity ratio (V.R) in terms of A and a **(3marks)**

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- c) A machine of velocity ratio 45, overcome a load of $4.5 \times 10^3 \text{ N}$, When an effort of 135N is applied.

Determine

- i) The efficiency of the machine **(3mrks)**

ii) The percentage of work that goes to waste

(1mark)

14.a) Define specific latent heat of fusion of a substance

(1mark)

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b) Water of mass 200g at a temperature of 60°C is put in a well lagged copper calorimeter of mass 80g. A piece of ice at 0°C and mass 20g is placed in the calorimeter and the mixture stirred gently until all the ice melts. The final temperature T of the mixture is then recorded. (Take; specific latent of fusion of ice = 334000J/kg , s.h.c of water = $4200\text{J/kg}^{-1}\text{K}^{-1}$, s.h.c of copper = $900\text{J/kg}^{-1}\text{K}^{-1}$) Determine:

i) The heat absorbed by the melting ice at 0°C

(1mark)

ii) The heat absorbed by the melted ice (water) to rise to temperature T . (answer may be given in terms of T)

(2marks)

iii) The heat lost by the warm water and the calorimeter (answer may be given in terms of T)

(2marks)

iv)The final temperature of the mixture

(3marks)

15.a) State Newton's second law of motion

(1mark)

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b) A matatu starts from rest and accelerates to cover a distance of 49m in 7seconds. Determine its acceleration. **(2mks)**

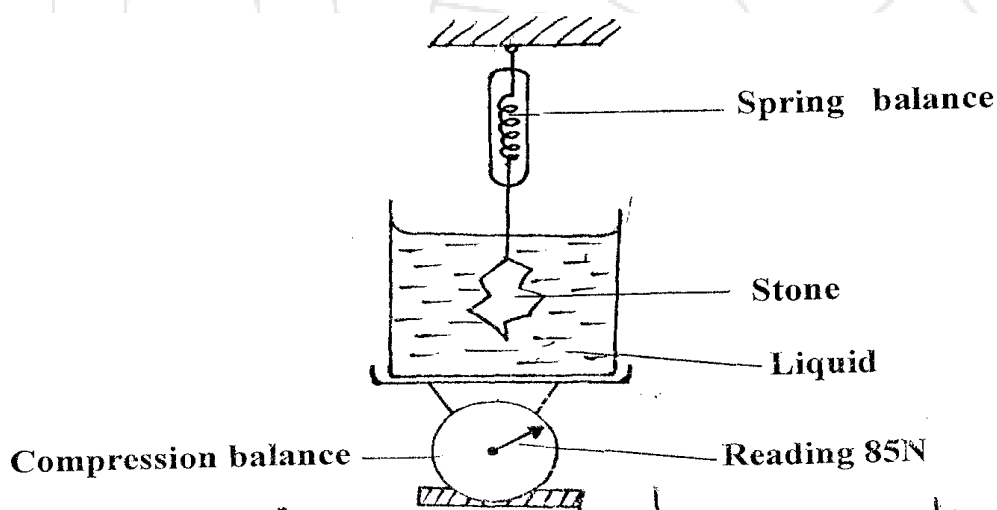
(c)A trolley moving on a horizontal bench of height 1.2m strikes a barrier at the edge of the bench. The brass mass on the top of the trolley flies off on impact and lands on the ground 2.5m from the edge of the bench. Determine

i) The time taken by the brass mass to reach the ground. **(2marks)**

ii) The speed at which the trolley struck the barrier **(2marks)**

- d) A passenger dropped a coin held at his hands in a stationary bus and it landed at his feet. State and explain the position it will land if he repeat it once again and the bus was assumed to be moving in a straight line at constant speed (2marks)

16. Figure below shows a mass of 4kg immersed in liquid and suspended from a spring balance with a string. The beaker was placed on a compression balance and shown the reading of 85N. The density of the stone was 3000kg/m^3 while the density of the liquid was 800kg/m^3



- a) State Archimedes principle (1mark)

b) Determine

- i) Volume of the liquid displaced (2marks)

ii) Up thrust on the stone (2marks)

iii) Reading of the spring balance

(2marks)

- c) Find the volume of hydrogen gas filled balloon that will carry a 300kg load in air (density of air = 1.3kg/m^3 while that of hydrogen = 0.9kg/m^3) (3marks)

17.a) State Boyles law

(1mark)

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b) State the measurements taken in verifying the law above

(2marks)

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c) Explain how measurement above are used to verify Boyles law.

(3marks)

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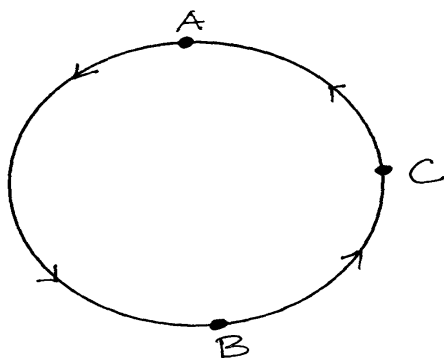
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- d) At 30°C , pressure of a gas is 60cmHg. At what temperature would the pressure of the gas rise to 100cmHg if the volume is kept constant. (3marks)

- 18.a)** A car of mass 1500kg moves round a circular track of radius 1200m at a constant speed of 20m/s what is the centripetal force action on the car. **(3marks)**

- b)** The figure below shows a stone of mass 10kg being whirled using a rope in a vertical circle of radius 2.5m



State what provides the centripetal force at points.

- i) A **(1mark)**

.....

- ii) B **(1mark)**

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- iii) C **(1mark)**

.....

- c) Calculate the maximum tension on the body if it was moving at a linear velocity of 10m/s.
($g=10\text{m/s}^2$) **(3marks)**

KCSE 2026 TOPGRADE PREDICTION

(BLUEPRINT REPLICA OF KCSE 2026 EXAMINATION)

PHYSICS

232/2

PAPER 2 (THEORY)

TIME: 2 HOURS

NAME.....

SCHOOL..... SIGN.....

INDEX NO..... ADM NO.....

Kenya Certificate of Secondary Education.

Instruction to The Candidates

- a) Write your **name** and **ADM number** 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 **A** and **B**.*
- d) Answer **all** the questions in sections **A** and **B** in the spaces provided.*
- e) All working must be clearly shown in the spaces provided.*
- f) Mathematical tables and electronic calculators **may be** used.*

For Examiners Use Only

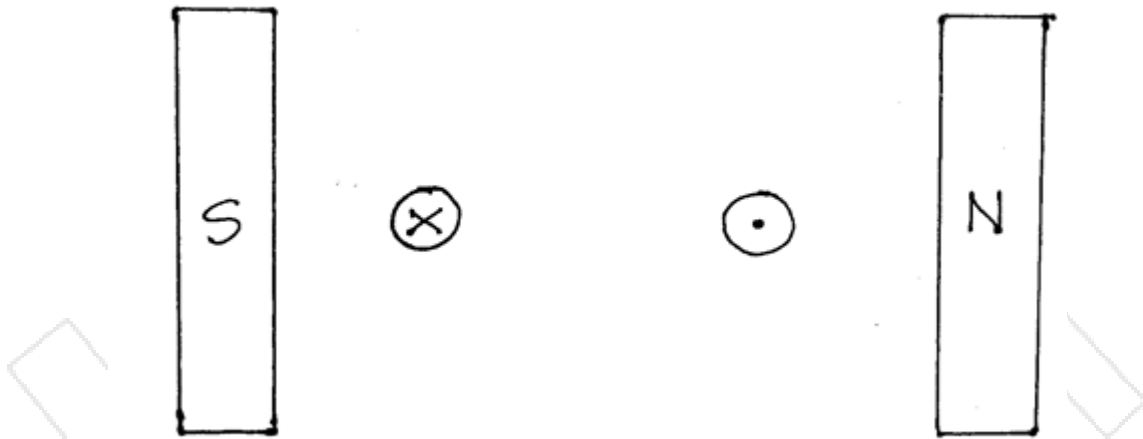
Section	Question	Total Score	Candidates Score
A	1-12	25	
B	13	08	
	14	09	
	15	11	
	16	11	
	17	08	
	18	08	
Total		80	

SECTION A (25 MARKS)

Answer all the question in this section in the space provided.

1. **Sketch** the magnetic field pattern given by a current carrying conductor in the magnetic field shown in the figure below. Also show the direction of the forces produced on the conductor

(2 mks)



2. State any two ways in which energy is lost in a transformer, and briefly explain each loss can be minimised.

(2 mks)

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3. Below is part of the electromagnetic spectrum in order of increasing wavelength

A	B	C	Visible light	infrared	D	C
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How are waves A Produced

(1 mk)

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- 4.a) State one similarity and one difference between a camera and a human eye.

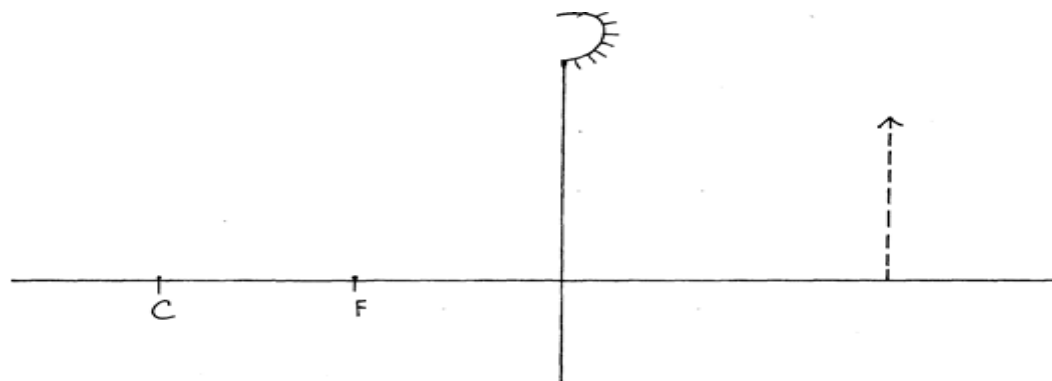
(2 mks)

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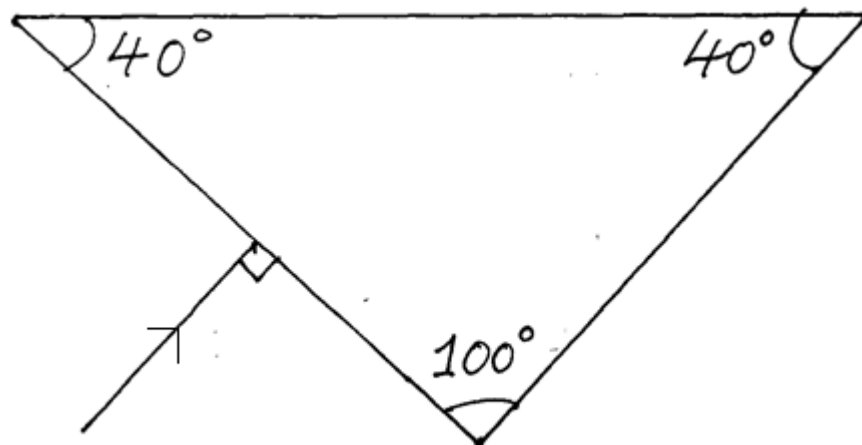
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- b) The figure below is a concave mirror used to form a virtual, magnified image. Complete the ray diagram to show the position of the object (3 mks)



- 5) The figure below shows a ray of light incident on a glass prism



Given that the critical angle of the glass is 39° , sketch on the diagram the path of ray through the prism until it exits the prism (2mks)

6. A sharp point of a pin is held over a positively charged electroscope. State and explain the observation made on the electroscope (2mks)

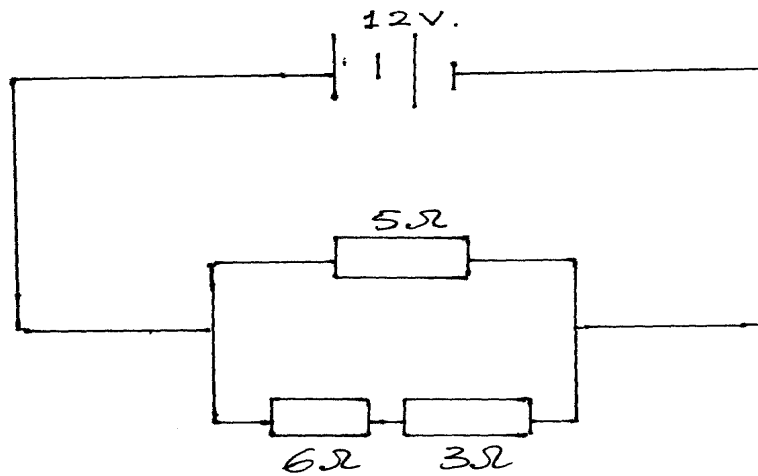
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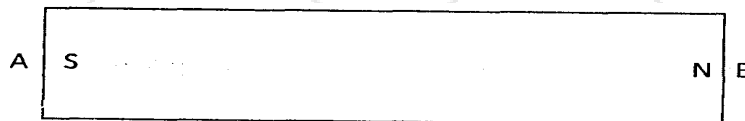
7. The figure below is a circuit of 3 resistors connected to a 12v battery



Determine the P.d across the 3Ω resistor

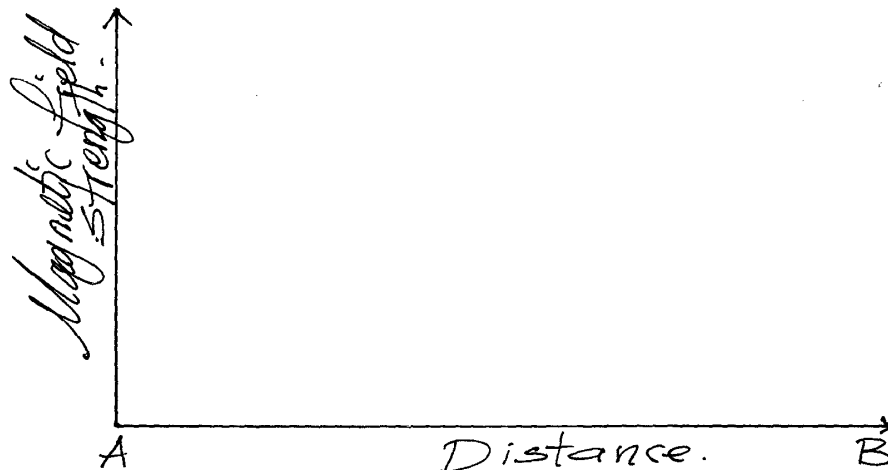
(3mks)

8. The figure below shows a magnet. Point A and B are in front of the magnet

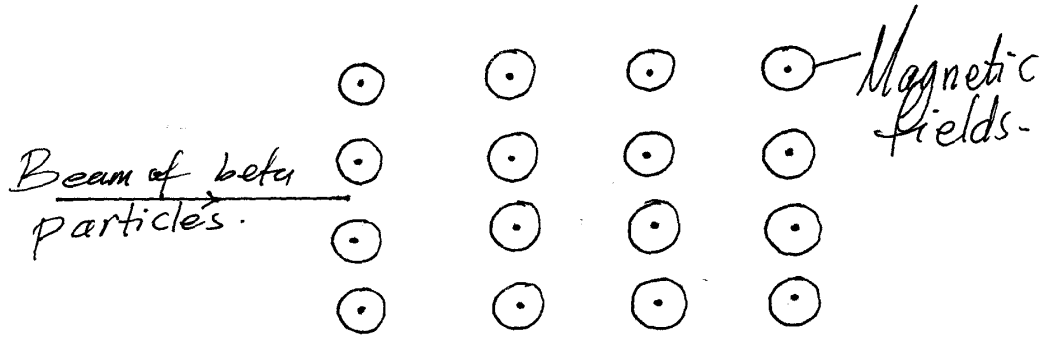


On the axis provided sketch a graph showing how the magnetic field strength changes the A to B

(2mks)



9. The figure below shows a beam of beta particles entering a magnetic field whose direction below



Complete the diagram to show the path of the beta particles as they pass through magnetic field and out of it (1mk)

10. A girl standing 400m from the foot of a high cliff claps her hand and the echo reaches her 2.32 seconds later. Calculate the velocity of sound in air using this observation. (2mks)

11. Explain two of ways of dealing with defect of polarisation in a simple cell (2mks)

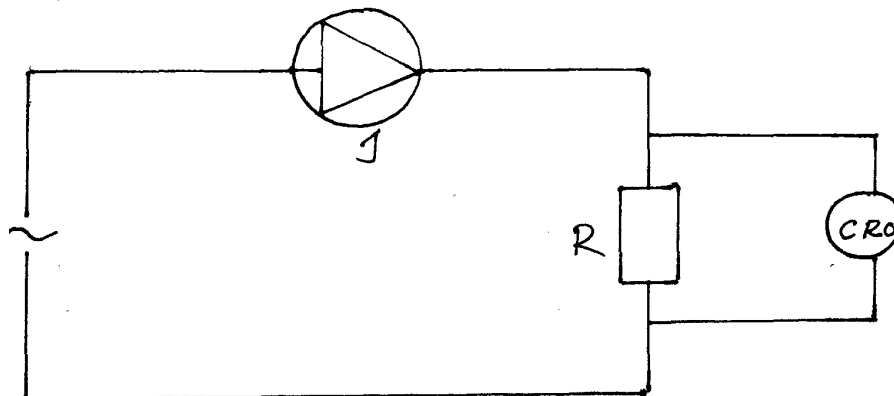
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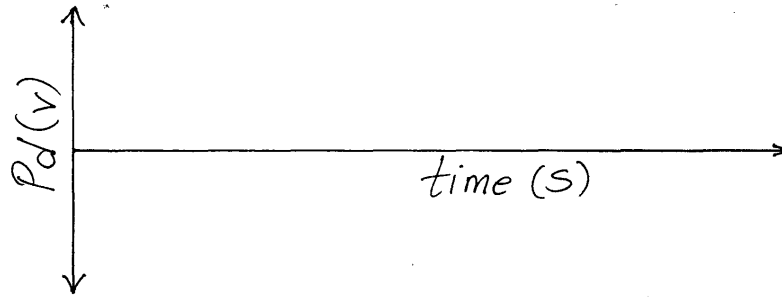
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12. The figure below shows an a.c source connected across diode D and Resistor R



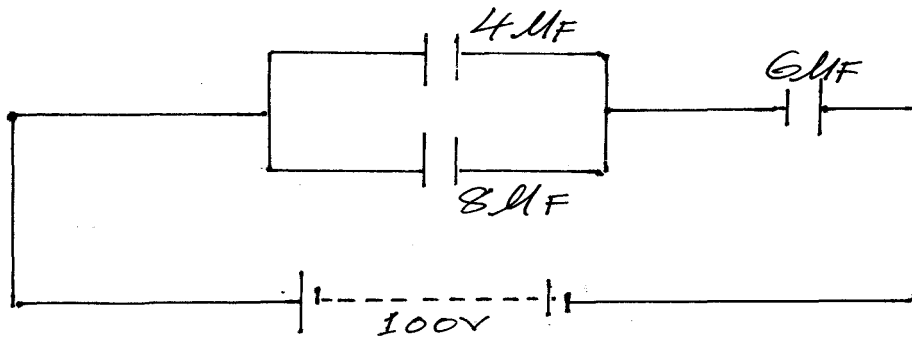
On the axis provided sketch the output voltage as observed in the CRO

(1mk)



SECTION B (55 MARKS)

13.a) The figure below shows a system of capacitor connected to a 100v d.c supply.



From this circuit determine:

i) Its effective capacitance

(2mks)

ii) The charge through the $6\mu F$ capacitor

(2mks)

iii) The p.d across $8\mu F$ capacitor

(2mks)

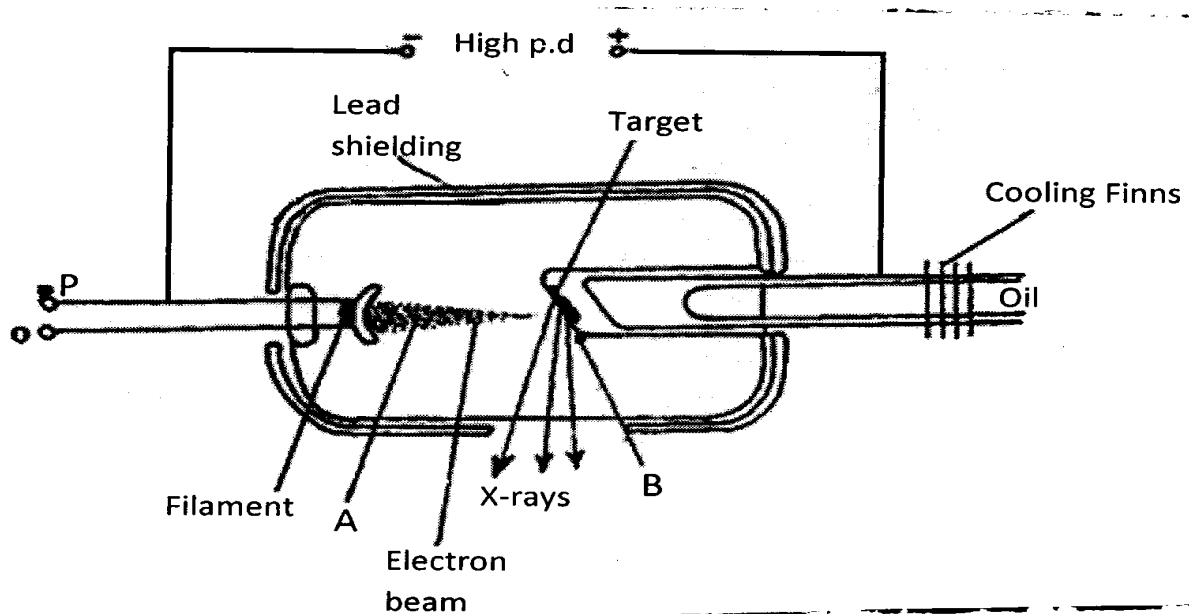
b) State any two factors that affects the capacitance of a parallel plate capacitor (2mks)

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14.a) The figure below shows the features of an x-ray tube



i) Name the parts labelled A and B (2mks)

A.....

B.....

ii) Explain the effect of increasing the potential P on x-rays produced (2mks)

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iii) During the operation of the tube, the target become very hot. Explain how this heat is caused (2mks)

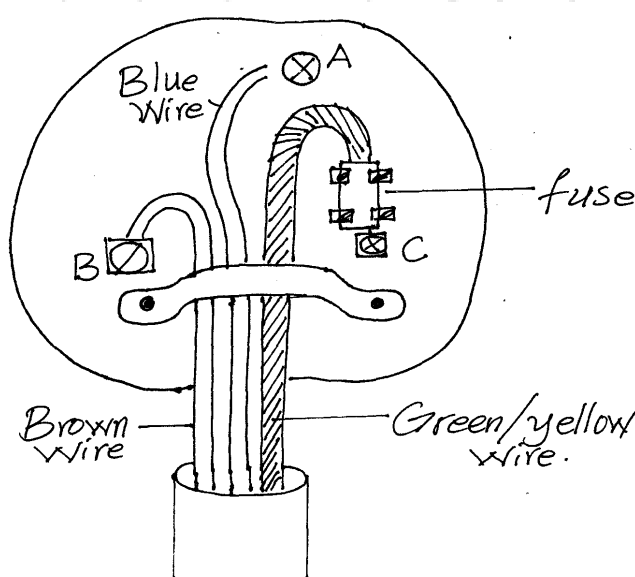
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- b) In a certain x-ray tube, the electrons are accelerated by a p.d of 12kv. Assuming that all energy goes to produce x-rays, determine the frequency of x-ray produced ($h=6.62 \times 10^{-34} \text{Js}$ and $e^- = 1.6 \times 10^{-19} \text{C}$) (3mks)

15. The figure below shows a connection to a 3 pin plug as viewed from its back



- i) Name the terminal pin labelled A (1mk)

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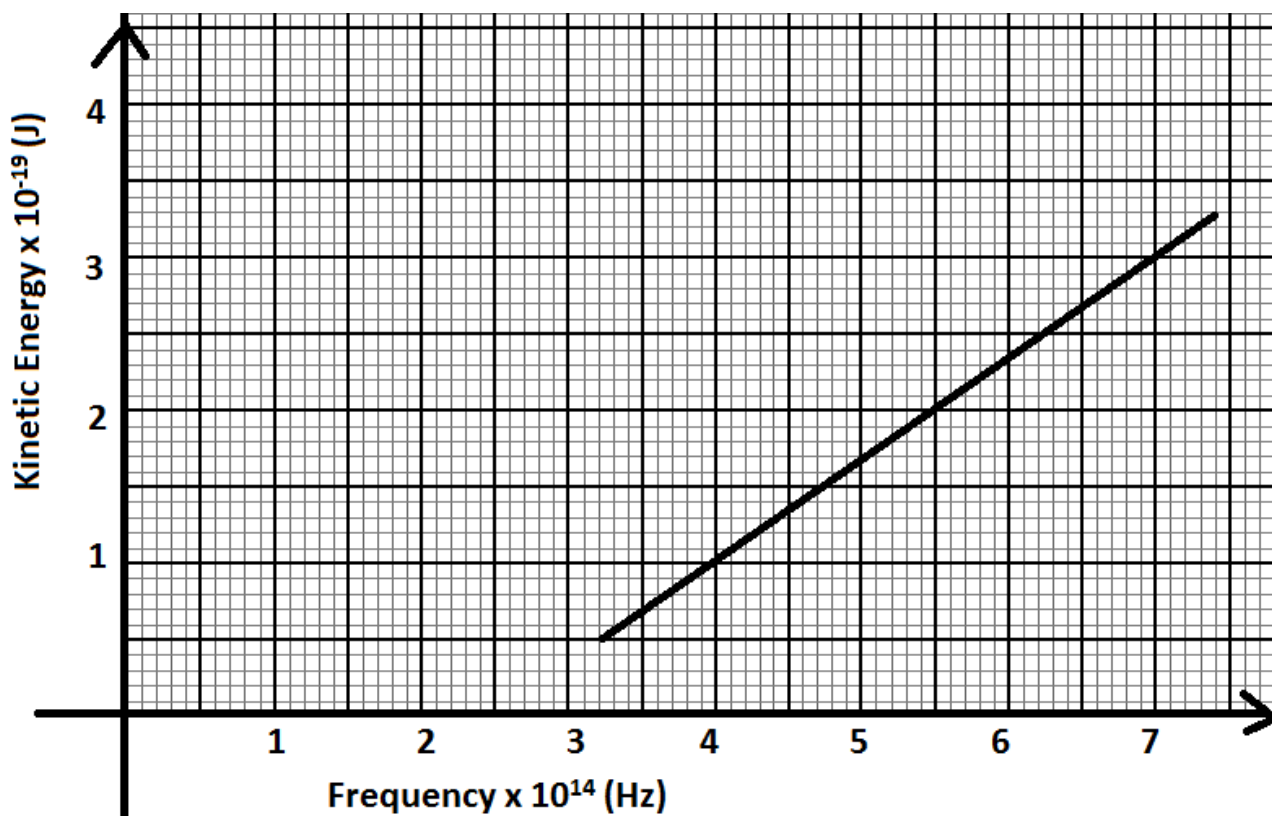
- ii) State any two mistakes with wiring of his 3pin plug (2mks)

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- iii) Give any two reasons why the earth pin is normally longer than the other two pins (2mks)

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b) The figure below is graph of K.E of electrons against frequency of radiation in photo – electric effect in cathode metal plate



From the graph, determine

i) Threshold wavelength (λ) of the cathode metal surface (2mks)

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ii) Plancks constant (h) of cathode (2mks)

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iii) Work function of cathode in ev (2mks)

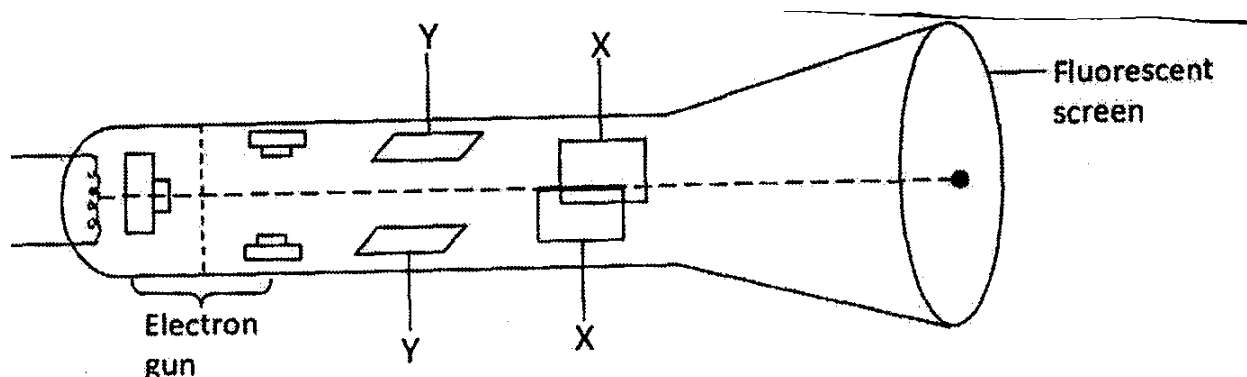
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16.a) The figure below shows a simple cathode ray tube



i) Explain how the electrons are produced in the tube (2mks)

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ii) State one function of the anode (1mk)

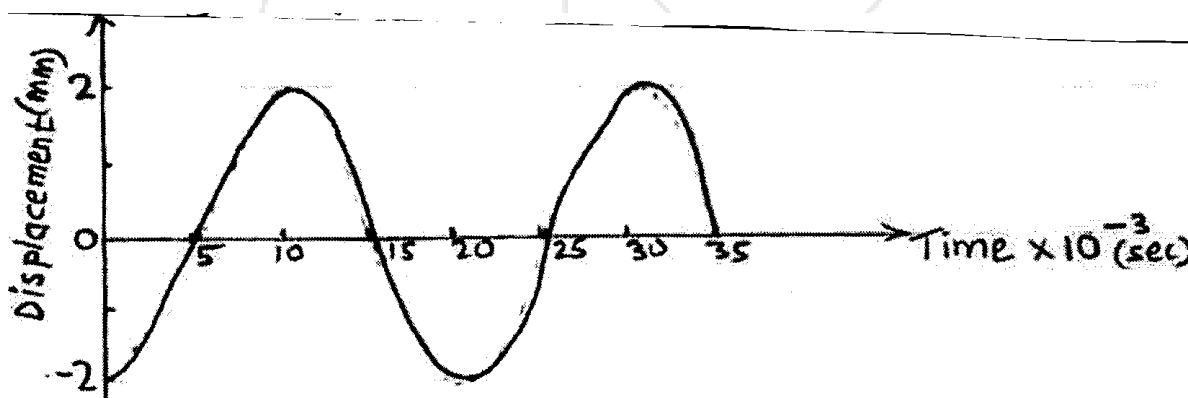
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iii) At what part of the cathode tube would the time base be connected? (1mk)

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b) The figure below represent a displacement time graph for a wave moving with a velocity of 80cm/s

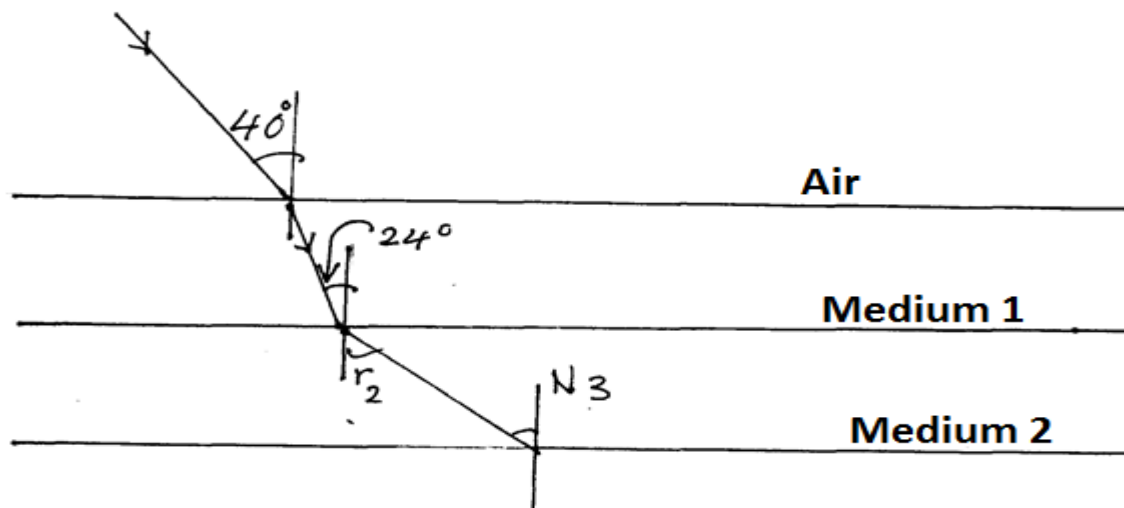


Determine the wave

i) Frequency (f) (2mks)

ii) Wavelength (λ) (2mks)

c) A ray of light traveling through air in to medium 1 and 2 as shown in the figure below.



i) Calculate the refractive index of medium 1 (1mk)

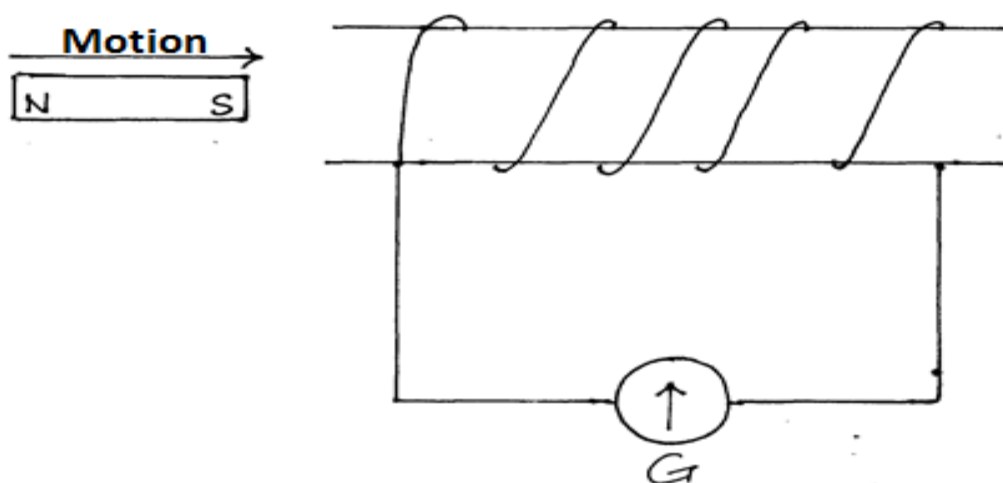
ii) Angle of refraction r_2 in medium 2 (2mks)

17.a) State the lenz's law of electromagnetic induction.

(1mk)

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b) A bar magnet is moved into a coil of insulated copper wires connected to a centre zero – galvanometer (G) as shown in the figure below



i) With arrows show the direction of induced current in the coil

(1mk)

ii) Explain clearly what is observed on the galvanometer when the south pole of a magnet is moved into the coil and then withdrawn

(2mks)

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c) A transformer has 1600 turns in the primary coil and 80 turns in the secondary coil. If the transformer is 80% efficient and its primary coil is 240v with a current of 0.75A, determine

i) The secondary e.m.f of its coil

(2mks)

ii) The output power in its secondary coil

(2mks)

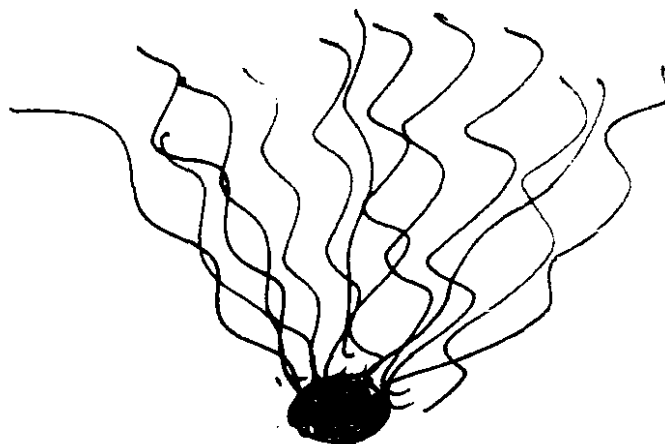
18.a) Define the term radioactivity

(1mk)

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b) The figure below shows tracks formed in a diffusion cloud chamber given by a certain radioactivity sample



State the type of radiations emitted by this sample, explain your answer

(2mks)

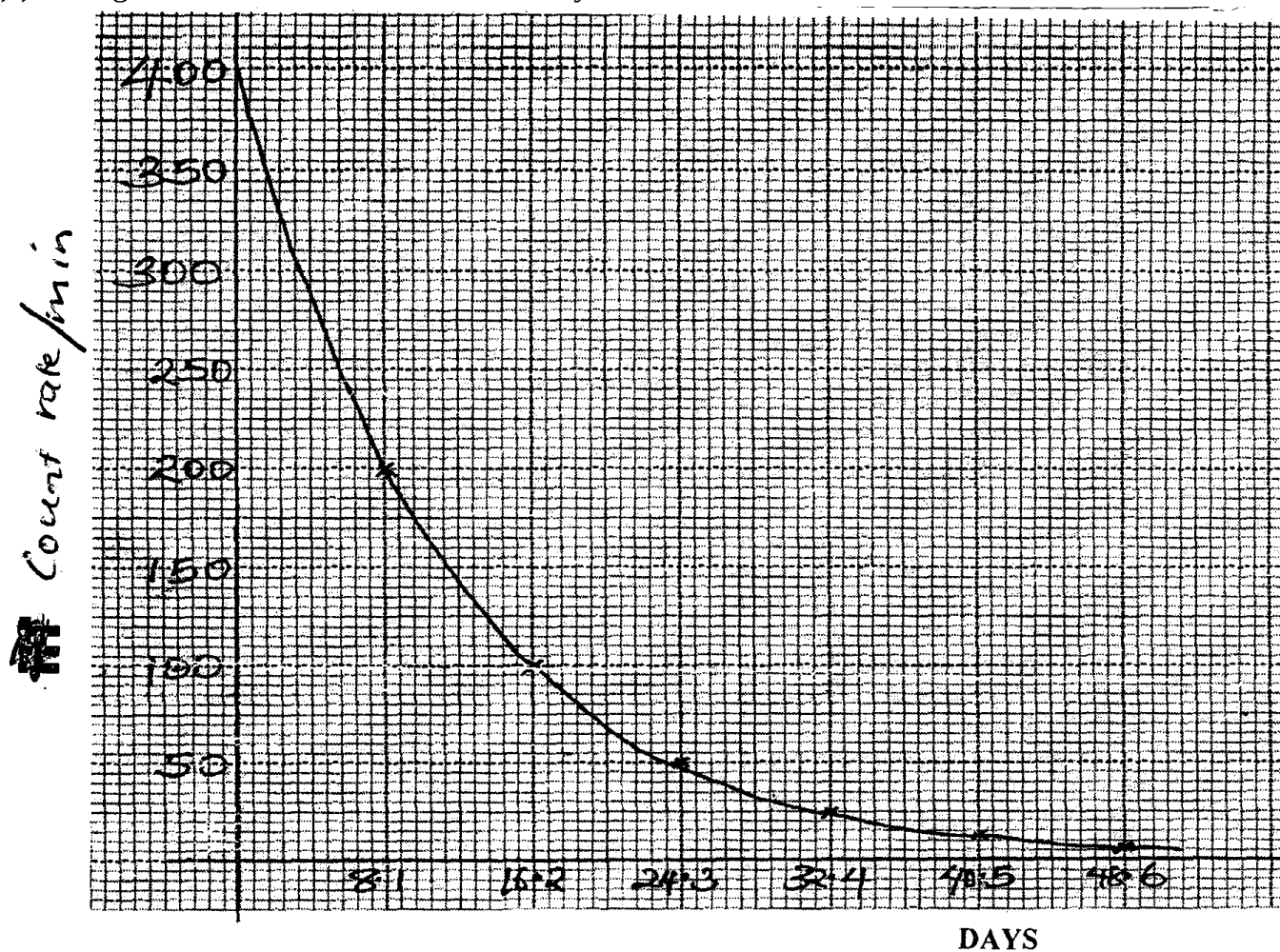
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c)i) The figure below shows radioactive decay of iodine



ii) What fraction of this iodine will have decayed after 3 half – lifes (2mks)

d) The average count rate of a radioactive material sample is 92 counts per second. After 420 seconds, the count rate had dropped to 29 counts per second. Given that the background count rate was 20 counts per second, determine the half life of this sample. (3mks)

KCSE 2026 TOPGRADE PREDICTION

(BLUEPRINT REPLICA OF KCSE 2026 EXAMINATION)

PHYSICS

232/3

PAPER 3 (PRACTICAL)

TIME: 2½ HOURS

SCHOOL..... SIGN.....

Kenya Certificate of Secondary Education.

CONFIDENTIAL

QUESTIONS 1

Each candidate will require the following:

- Two 100g masses.
- A meter rule.
- A retort stand, Boss and Clamp.
- A liquid **L** in a beaker (100ml Kerosene).
- 3 pieces of strong sewing thread measuring 30cm each.
- Some water.
- A 100ml measuring cylinder.

QUESTION 2

Each candidate will require the following:

- A metre rule.
- A White screen.
- A candle.
- Lens of focal length 20 cm and lens holder.
- An ammeter (0 - 1.0A)
- A wire labelled **P** mounted on a millimeter scale.
- Wire **P** is nichrome wire swg 32.
- One size **D** new dry cell.
- Atleast four connecting wires (at least two with crocodile clips at the end).
- Switch.
- Micrometer screw gauge (can be shared)

KCSE 2026 TOPGRADE PREDICTION

(BLUEPRINT REPLICA OF KCSE 2026 EXAMINATION)

PHYSICS

232/3

PAPER 3 (PRACTICAL)

TIME: 2½ HOURS

NAME.....

SCHOOL..... SIGN.....

INDEX NO..... ADM NO.....

INSTRUCTIONS TO THE 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.
 - Marks are given for a clear record of the observation actually made, their suitability, accuracy and the use made of them
- Take $g=10\text{N/Kg}$

FOR EXAMINER'S USE ONLY

Question 1	a	b(i)	b(ii)	b(iii)	b(iv)	b(v)	b(vi)	b(vii)	Total
Maximum score	1	1	3	5	3	3	2	2	
Candidate's score									

Question 2	PART I		PART II					Total
	(iv)	(v)	a(iv)	(v)	(vi)	b	(c)	
Maximum score	2	2	5	5	3	1	2	
Candidate's score								

Grand Total

QUESTION 1 (20MARKS)

You are provided with the following apparatus:

- Two 100g masses
- A meter rule
- A retort stand, Boss and Clamp.
- A liquid **L** in a beaker
- 3 pieces of thread
- Some water
- A 100ml measuring cylinder

Proceed as follows

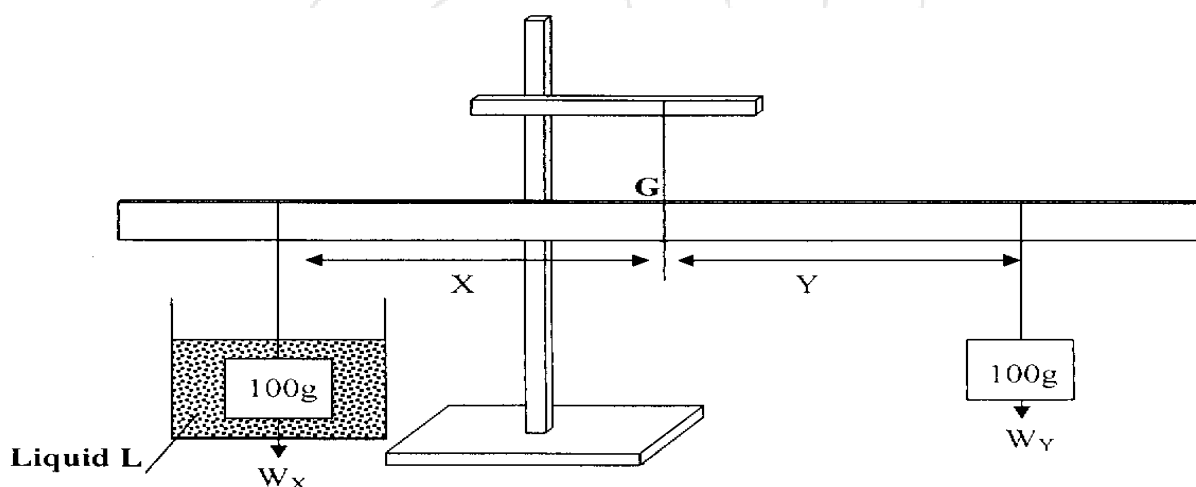
(a) Determine the volume **V** of one of the masses using the apparatus provided.

V = cm^3 (1mrk)

(b) (i) Determine and record the center of gravity **G** of the meter rule.

G = (1mrk)

(ii) Arrange the apparatus as shown in the diagram below such that **X= 5cm** from the pivot with the 100g mass completely immersed in liquid **L**. Hang the other 100g mass from the meter rule and adjust its position until the system is in equilibrium as shown in the diagram.

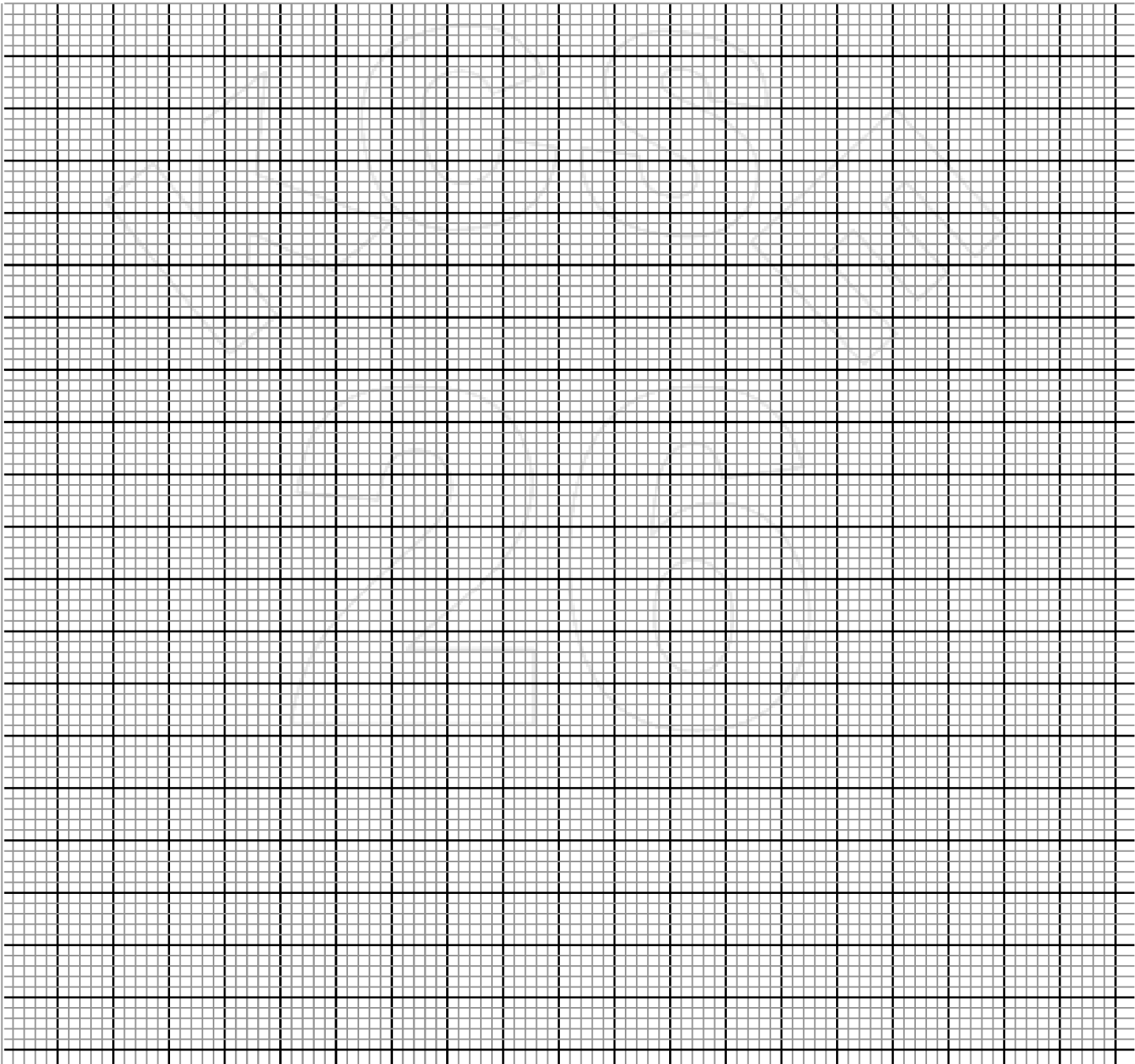


Repeat the procedure above with the following values of **X** and fill the table. **(3mrks)**

NB: *During each experiment, ensure that the position of the pivot does not change.*

X (cm)	5	10	15	20	25	30
Y (cm)						

(iii)On the grid provided, plot a graph of **Y** against **X**. **(5mrks)**



(iv) Determine the slope **S** of the graph.

(3mrks)

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(v) The slope **S** is given by the equation $S = \frac{W_y}{W_x}$ where **W_x** is the apparent Weight of the mass in liquid **L** and **W_y** is the actual weight. Calculate the value of **W_x** and the upthrust **U**.

(3mrks)

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(vi) Determine the mass of liquid **L**

(2mrks)

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(vii) Use the value in (v) above to determine the density of the liquid **L**.

(2mrks)

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QUESTION 2 (20mks)

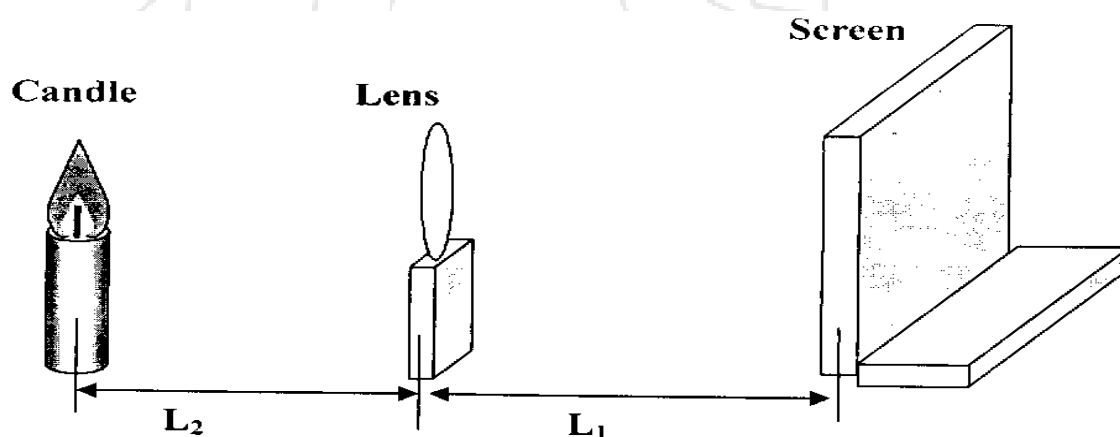
Part 1

You are provided with the following set of apparatus.

- A meter rule
- A White screen
- A candle
- Lens and lens holder

Proceed as follows:

- (i) Set up the apparatus as shown.



- (ii) Starting with $L_1=30\text{cm}$, adjust the position of the candle in order to obtain a sharp image on

L_1 cm	$L_2(\text{cm})$	$\frac{L_1}{L_2}$
30		
60		

the screen. Record the value of L_2 .

- (iii) Repeat the procedure for $L_1 = 60\text{cm}$.

- (iv) Fill and complete for values of L_1/ L_2 below.

(2mrks)

(v) Given that equation $f = \frac{L_1}{M+1}$ where $M = \frac{L_1}{L_2}$

(v) Given the equation $f = \frac{L_1}{M+1}$ where $M = \frac{L_1}{L_2}$

Determine the value of focal length f .

(2mrks)

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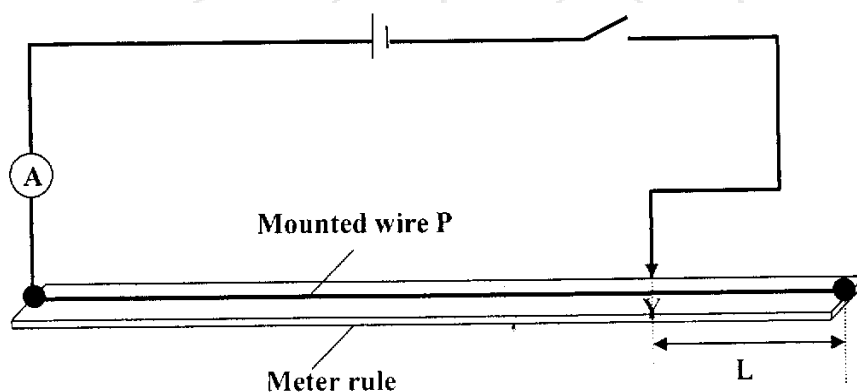
Part II

You are given the following apparatus;

- An ammeter (0-1.0A)
- A wire labeled **P** mounted on a millimeter scale.
- One size **D** new dry cell.
- Atleast Four connecting wires (Atleast two with clips at the end)
- Switch
- Micrometer screw gauge.

Procedure

(a) (i) Set up the apparatus as shown in the figure.



(ii) Adjust the length L of the wire to 20cm by placing the crocodile clip at **Y**.

Record the ammeter reading.

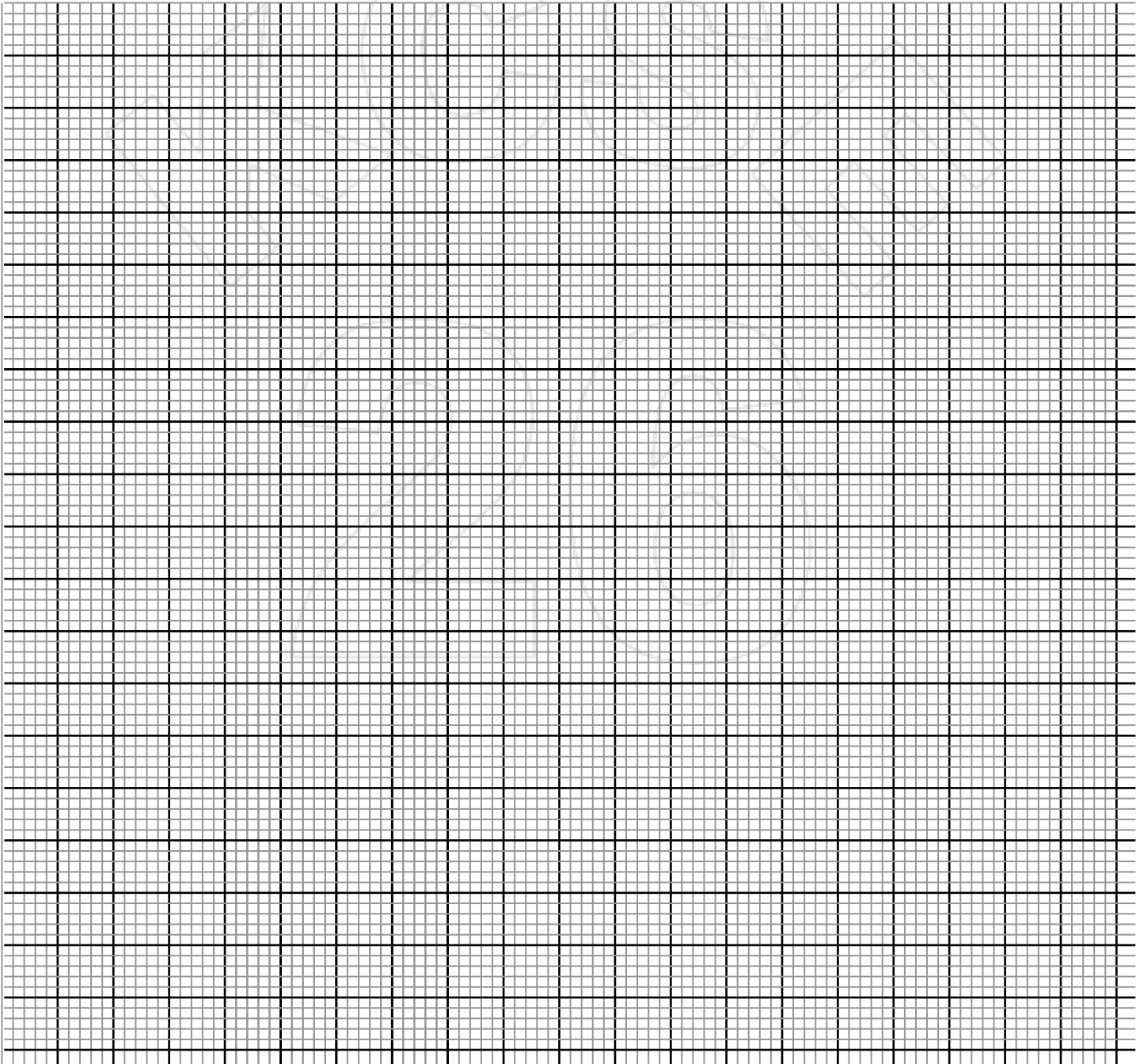
(iii) Repeat the procedure above for other values of length L given in the table below and record the corresponding ammeter readings.

(iv) Complete the table below

(5mrks)

Length L(cm)	20	30	40	50	60	70
Length(100-L) CM						
Current I (A)						
$\frac{1}{I}$ (A ⁻¹)						

(v) Plot the graph of length (100 –L) (Vertical axis) against $\frac{1}{I}$ (5mrks)



(vi) Determine the slope **S** of the graph at length $100 - L$ equal to 60cm. (3mrks)

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(b) Using the micrometer screw gauge provided, measure the diameter **d**, of the mounted wire **P** in centimeters. (1mrk)

d = cm.

(c) Given that relation $K = \frac{SE\pi d^2}{4}$

Where **S** is the slope of the graph and **E=1.5 V**. determine the value of **K**. (2mrks)

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KCSE 2026 TOPGRADE PREDICTION

(BLUEPRINT REPLICA OF KCSE 2026 EXAMINATION)

AGRICULTURE

443/1

PAPER 1

TIME: 2 HOURS

NAME.....

SCHOOL..... SIGN.....

INDEX NO..... ADM NO.....

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

- Write your name and index no. In the spaces provided above.
- Sign and write the date of examination in the spaces provided above.
- This paper contains three sections **A, B** and **C**
- Answer **ALL** the questions in section **A** and **B**
- Answer any **TWO** questions from section **C**.
- Candidates should answer the questions in English.

FOR EXAMINERS USE ONLY

SECTION	QUESTION	MAXIMUM SCORE	CANDIDATE SCORE
A	1-17	30	
B	18-21	20	
C		40	
	Total score	90	

SECTION A (30MKS)

Answer all questions in this section.

1. Outline **four** human factors that influence agriculture.

(2 marks)

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2. State **two** harmful effects of wind on crop production.

(1 mark)

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3. Mention **four** economic importance of crop diseases to a maize farmer.

(2 marks)

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4. Give four reasons for early land preparation.

(2 marks)

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5. What are the functions of the following chemicals used in treatment of water?

(1 mark)

Chlorine

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Aluminium sulphate (Alum)

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6. State **four** factors that influence spacing of annual crops. (2 marks)

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7. State **four** benefits of processing certificate of land ownership. (2 marks)

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8. List any two financial documents. (1 mark)

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9. State **four** benefits of agroforestry to a maize crop. (2 marks)

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10. State **four** advantages of tillage as a method of weed control. (2 marks)

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11. (a) State **two** advantages of raising seedlings using polythene sleeves. (1 mark)

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.....

(b) What is the importance of root pruning in agroforestry? (1 mark)

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.....

12. Name the plant part used for vegetative propagation for each of the following plants: (2 marks)

Sisal

.....

Pyrethrum

.....

13. Differentiate between the terms *settlement* and *resettlement* as used in land tenure and reforms. (2 marks)

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14. Define the term *economic injury level*. (1 mark)

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15. State **the** advantages of the following nursery practices. (2 marks)

(a) Hardening off

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(b) Watering before transplanting.

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.....

16. Name the type of farm record from which each of the following information can be obtained. (2 marks)

(i) Common livestock disease occurring in a given farm.

.....

(ii) The best fertilizer to use for topdressing.

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(iii) The number of slashers a farm owns.

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(iv) A sire used to obtain calves on the farm

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17. (a) Name **two** examples of liabilities in a balance sheet. (1 mark)

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(b) Define the following terms

(i) Opportunity cost (1/2 mark)

.....

.....

(ii) Agricultural Economics (1/2 mark)

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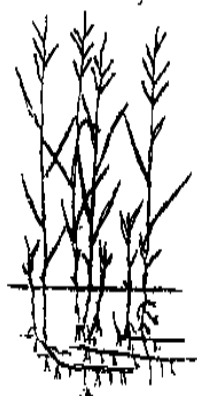
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SECTION B (20 marks)

Answer **all** the questions in this section.

18. Below is an illustration of common weeds in arable land. Study them and answer questions that follow.

A



B



C



(a) Identify each of the weeds labelled A and C. (1 mark)

A

C

(b) State **one** reason why it's difficult to control the weed labeled A. (1 mark)

.....

.....

(c) Give **three** harmful effects of the weed labelled B. (3 marks)

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19. After a soil analysis, it was found that the following should be applied, 60kgN, 30kgP₂O₅ and 40kg K₂O per ha. Calculate the amount of S.A, SSP and KCl required per ha if the fertilizer available are sulphate of ammonia (S.A) 20%N, SSP 20% P₂O₅ and muriate of potash 50% K₂O.

(5 marks)

20. Mr. Mkulima delayed to spray his crop of tomatoes against late Blight Disease. He realized that his plants had been attacked by the Disease and rushed to purchase a chemical which he sprayed but the disease kept spreading.

(a) Name **two** symptoms Mr. Mkulima may have noticed to conclude that the disease was Late Blight. (2 marks)

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.....

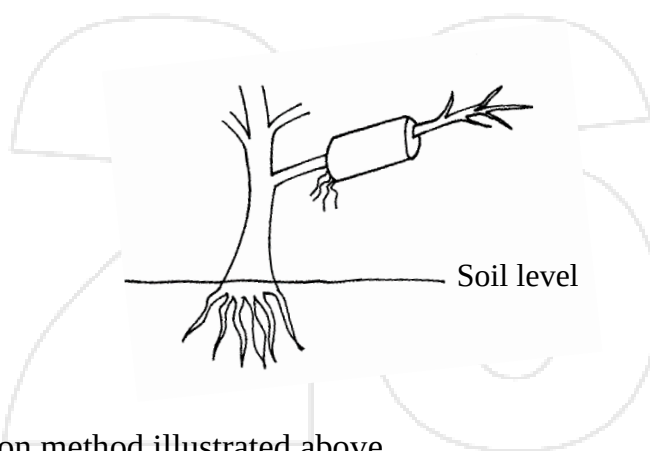
(b) State the cultural methods of controlling the disease. (1 mark)

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.....

(c) What precautions should Mr. Mkulima observe when handling the chemical? (2 marks)

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.....

21. The diagram below shows a method of crop propagation.



(i) Identify the propagation method illustrated above. (1 mark)

.....

(ii) State **four** ways of initiating faster root development in propagation method illustrated. (4 marks)

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SECTION C (40 MARKS)

*Answer **only two** questions in this section*

22. (a) Describe the field production of tomato grown for fresh vegetable market under the following sub headings:
- I. Pest Control (2 marks)
 - II. Weed Control (2 marks)
 - III. Harvesting (3 marks)
- (b) List **seven** benefits of using organic matter for mulching. (7 marks)
- (c) List **six** methods of harvesting water in the farm. (6 marks)
23. (a) Describe the establishment and management of grass Pasture under the following sub headings
- (i) Planting (3 marks)
 - (ii) Field Management Practices (5 marks)
- (b) On 1st July 2022 Jashi Farm purchased on credit the following items from Mamboleo Agro-Vet.
- 10 bags of sow and weaner meal 100kg each at ksh 1300 per bag
 - 15 bags of finisher meal 70kg each at ksh 700 per bag
 - 12 bags DAP fertilizer 50kg each at ksh 1050 per bag
 - 4 milking Churns 50 litres each at ksh 2500 per churn.
 - 4 pruning knives at ksh 400 per knife
- Prepare a purchase order that Jashi Farm made to Mamboleo Agro-vet. (7 marks)
- (c) State **five** reasons for crop rotation. (5 marks)
24. (a) Explain **ten** cultural methods of controlling pests. (10 marks)
- (b) Discuss the importance of drainage in land reclamation. (6 marks)
 - (c) Describe harvesting of sugarcane. (4 marks)

KCSE 2026 TOPGRADE PREDICTION

(BLUEPRINT REPLICA OF KCSE 2026 EXAMINATION)

AGRICULTURE

443/2

PAPER 2

TIME: 2 HOURS

NAME.....

SCHOOL..... SIGN.....

INDEX NO..... ADM NO.....

Kenya Certificate of Secondary Education.

Instruction to students

- a) Write your name, class, Admission number and date in the space provided at the top of this page*
- b) This paper consists of three sections: A,B and C*
- c) Answer all questions in sections A and B*
- d) Answer any two question in section c*
- e) All answers should be written in the space provided*
- f) Candidate should answer the questions in English*

For Examiner's Use only

SECTION	QUESTIONS	MAXIMUM SCORE	SCORE
A	11-17	30	
B	18-21	20	
C		20	
		20	
	TOTAL SCORE	90	

SECTION A (30 Marks)

Answer all the questions in this section on the spaces provided

1. State **four** causes of stress in poultry. (2 marks)

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2. Name the **four** stomach compartments of a ruminant animal. (2 marks)

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3. Name the intermediate host of the following parasites: - (1 mark)

- i. Tapeworm
- ii. Liver-fluke

4. State the length of gestation period in the following animals: - (1 mark)

- i. Sow
- ii. Rabbit.....

5. State **four** practices that may be carried out to control breeding diseases among cattle. (2 marks)

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6. Give the functional differences between a Manson's trowel and garden trowel. (1 mark)

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7. State **four** factors that affect digestibility in ruminant animals.

(2 marks)

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8. Name **six** qualities of eggs for incubation.

(3 marks)

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9. Name **four** strokes in a four stroke cycle engine in their correct order.

(2 marks)

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10. Give the meaning of the following terms as used in describing poultry.

(1½ marks)

- i. Chick.....
- ii. Pullet.....
- iii. Capon.....

11. Name the tools that perform the following functions.

(2 mark)

- a) Pruning soft branches in coffee a tree.....
- b) Checking vertical straightness of a stone wall.....
- c) Injecting animals to introduce drug or vaccine.....
- d) Cutting metal rods and plates.....

12. Outline **four** control measures for foot rot disease.

(2 marks)

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13. Name **four** hormones that influence milk secretion and milk let-down.

(2 marks)

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14. State **four** structural requirements of a good grain store.

(2 marks)

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15. Name **four** parts of a reproductive system of a hen.

(2 marks)

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16. Outline **four** merits of natural mating.

(2 marks)

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17. What is traction in reference to a tractor wheel?

(½ mark)

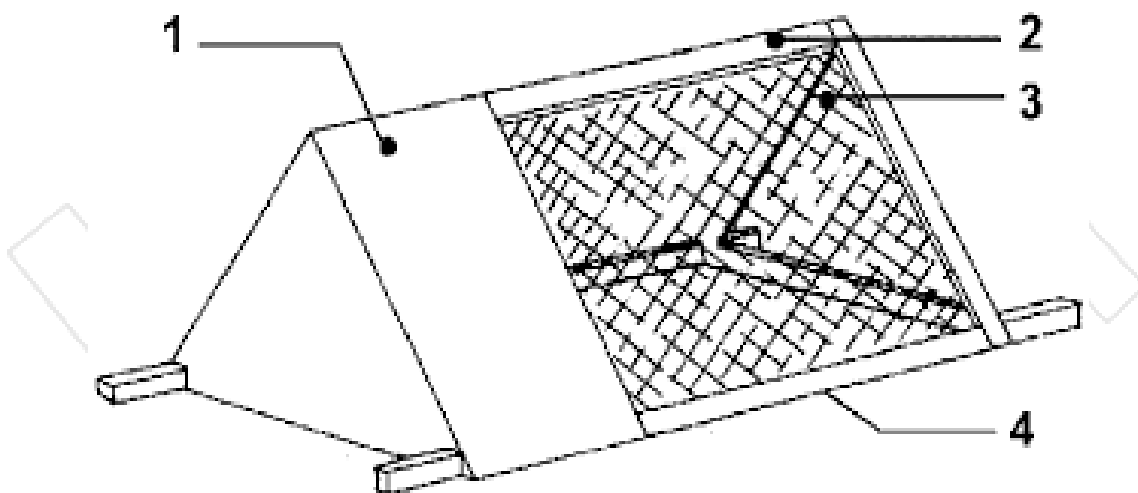
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SECTION B (20 Marks)

Answer all the questions in this section in the spaces provided

18. The diagram below shows a farm structure. Study it and answer the questions that follows.



a) Identify the above structure.

(1 mark)

.....

b) State **two** functions of part labeled 3.

(2 marks)

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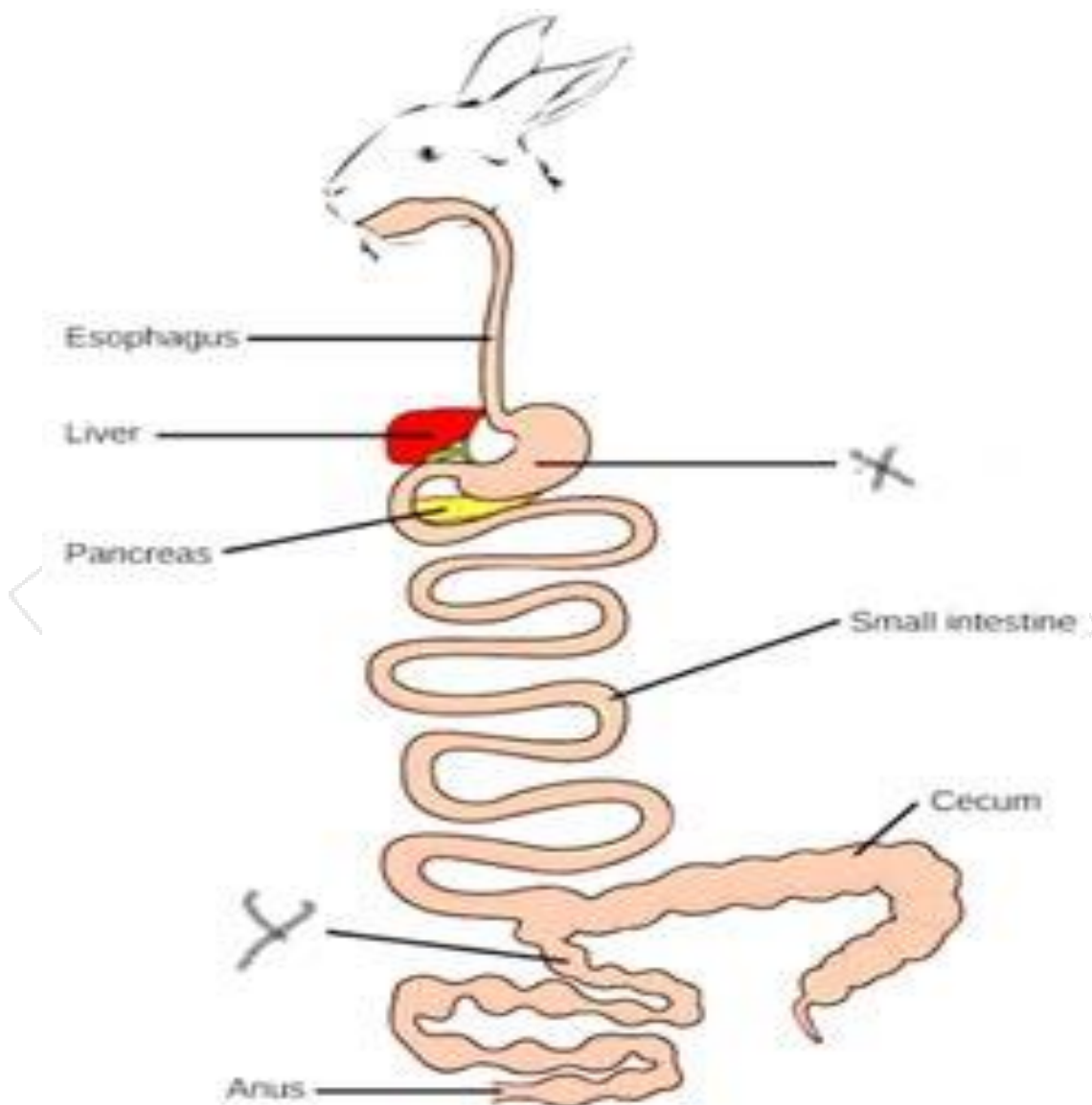
c) State **two** disadvantages of the structure above.

(2 marks)

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19. The diagram below shows the digestive system of a rabbit. Study it and answer the questions that follows.



i) Name parts labeled X and Y. (2 marks)

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.....

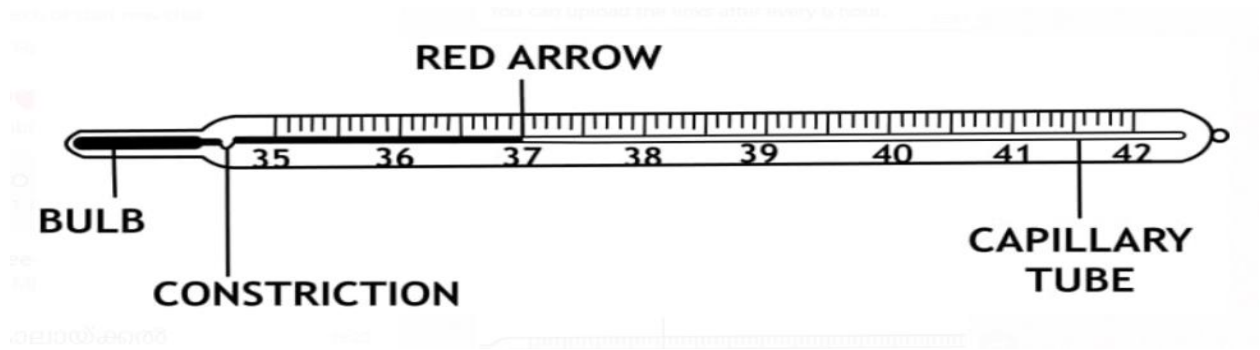
ii) Name **two** other livestock with the similar digestive system. (2 marks)

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iii) Give the function of caecum. (1 mark)

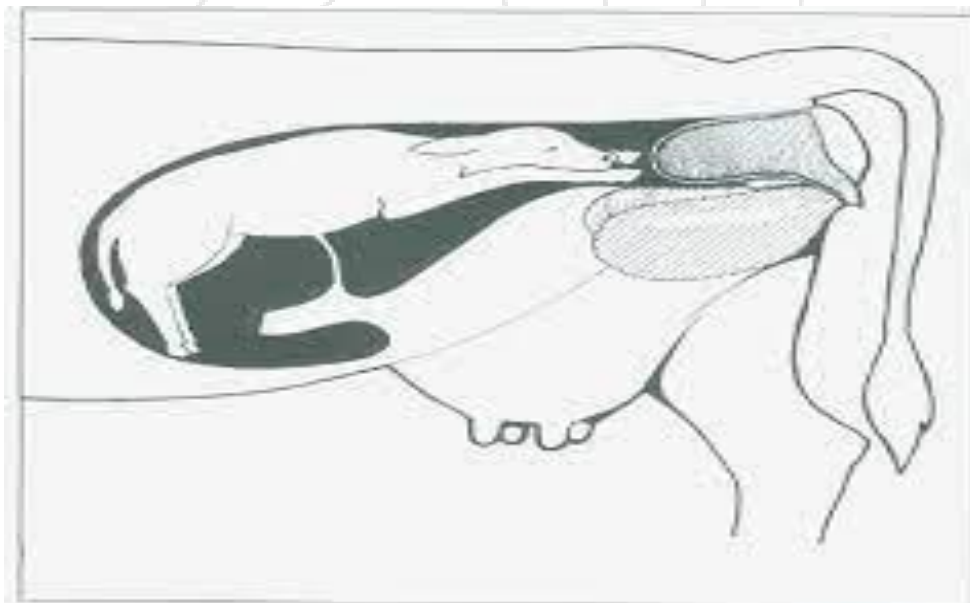
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20. The diagram below shows equipment used in the farm. Study it carefully and answer the questions that follows



- a) Identify the equipment illustrated above (1mark)
.....
- b) State **two** places where it is placed while taking temperature in livestock. (2 marks)
.....
.....
- c) Give a reason for maintaining the equipment. (1 mark)
.....
.....
- d) State **one** factor that can influence body temperature in livestock. (1 mark)
.....

21. The diagram below shows birth presentation in a cow. Study the diagram and answer the questions that follows.



- a. Give **two** reasons that shows the above diagram indicates the normal presentation of a calf at birth. (2 marks)

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- b. Give **two** signs that shows a cow is about to calve down (2 marks)

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- c. What name is given to the situation where the hind legs come out first (1 mark)

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SECTION C (40 Marks)

Answer any two questions in this section in the spaces provided after question 24

22. a) **Explain** the characteristics of a poor layer that would lead to culling. (6 marks)
- b) Describe the routine management practices carried out when rearing a replacement stock in cattle. (8 marks)
- c) State the effects of parasites in livestock (6 marks)
23. a) **Describe** the life cycle of a three host Tick (6 marks)
- b) Explain the reasons for maintaining farm tools (8 marks)
- c) Explain **six** factor considered in siting farm structure (6 marks)
24. a) **Explain** the factors that a farmer considers when selecting a breeding stock (7 marks)
- b) Describe the factors that determine the amount of food eaten by the animal. (7 marks)
- c) Outline **five** requirements of an artificial brooder in poultry rearing. (6 marks)

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KCSE 2026 TOPGRADE PREDICTION

(BLUEPRINT REPLICA OF KCSE 2026 EXAMINATION)

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 and Index 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 in the question paper.
- d) Non-programmable **silent calculators** may be used.
- f) Candidates should answer the questions in **English**.

FOR EXAMINER'S USE ONLY

Question	1	2	3	4	5	6	7	8	9	10	11	12	13
Score													

Question	14	15	16	17	18	19	20	21	22	23	24	25
Score												

TOTAL SCORE

1. Outline **four** functions of an Invoice in business. (4mks)

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2. **Highlight four** negative effects of an ageing population to the economy of a Country. (4mks)

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3. State **four** uses of a two-column cash book. (4mks)

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4. Outline **four** merits of indirect tax. (4mks)

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5. State **four** measures that may be taken by the government to control inflation (4mks)

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6. Outline **four** reasons why the government of Kenya should not rely on imported oil as a source of energy. (4mks)

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7. Identify **four** problems that may interfere with the effectiveness of the operations of a warehouse. (4mks)

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8. Give **four** features of an economic Union. (4mks)

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9 Give **four** advantages of using emails in communication. (4mks)

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10. State the books of original entry in which each of the following transactions would be recorded. (4mks)

Transaction		Books of Original Entry
a.	Bought a machine on credit	
b.	Received Sh.40,000 from Mueni a debtor	
c.	Sold goods worth Sh.20,000 on credit to Salama	
d.	Returned goods previously bought on credit to Kemunto	

11. List the **four** accounts under which changes in capital are recorded. (4mks)

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12. State **four** types of unemployment. (4mks)

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13. Outline **four** reasons why consumer-initiated organizations are weak to protect consumer against Exploitation. (4mks)

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14. Mention **four** forms of capital application in production. (4mks)

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15. Highlight **four** reasons why machines need to be serviced. (4mks)

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16. Outline **four** factors a producer would consider when selecting a distribution channel. (4mks)

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17. Outline four measurers that a manager can take to improve the working environment in the office.. (4mks)

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18. The following information relates to four businesses; A, B, C and D. Fill in the missing figures. (4mks)

Business	Assets (Sh)	Capital (Sh)	Liabilities (Sh)
A	4,010,000	3,210,000	
B		9,312,000	211,100
C	1,301,111		412,113
D	13,517,331	11,716,000	

19. The following information relates to **HARI TRADERS** for the year ended 31st Dec,2022.

Opening stock Sh.100,000

Closing stock Sh.80,000

Purchases Sh.520.000

Calculate the rate of stock turnover. (4mks)

20.The following information relates to commodity X

Year	Price(Shs)
2010	450
2014	675

Calculate the consumer price index. (3mks)

Comment on your answer. (1mk)

21. Mention **four** roles played by The Nairobi Stock Exchange in the Kenyan Economy. (4mks)

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22. Outline four circumstances under which an Insurance Company would decline to compensate the insured in the event of occurrence of loss. **(4mks)**

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23. The following balances of assets and liabilities were provided by Mawazo Traders as at 31st December, 2023; **(4mks)**

Item	Sh.
Bank Overdraft	80,000
Land	200,000
Accrued Electricity bill	50,000
Stock	10,000
Debtors	20,000

The business had drawings amounting to Sh.20,000 during the year.
Prepare a balance sheet to determine the net worth of the business.

24. State **four** difficulties faced by consumers in the satisfaction of their human wants. (4mks)

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25. Identify the account to debit and credit in each of the following transactions (4mks)

Transaction	Account to debit	Account to credit
a) Started business with 400,000 in cash		
b) Returned goods worth 21,000 to Nyayo Traders		
c) Banked 80,000 from cash till		
d) The proprietor took goods from the business for family use		

KCSE 2026 TOPGRADE PREDICTION

(BLUEPRINT REPLICA OF KCSE 2026 EXAMINATION)

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 Index Number* in the spaces provided above.**
- b) Sign and write the *Date* of the examination in the spaces provided above.**
- c) The paper consists of *six* questions.**
- d) Answers *Any Five* questions in the spaces provided.**
- e) All questions carry equal marks.**
- f) Non-programmable *silent electronic calculators* may be used.**
- g) Candidates should answer questions in *English*.**

For Examiner's use only

Question	Maximum Score	Candidates Score.
1.	20	
2.	20	
3.	20	
4.	20	
5.	20	
6.	20	
TOTALSCORE		

- 1 (a) Explain **five** factors that determine the size of a firm. (10 marks)
- (b) Explain **five** circumstances under which personal selling is appropriate. (10 marks)
- 2 (a) Explain the procedure of making an insurance claim. (10 marks)
- (b) State and explain **five** sources of monopoly power. (10 marks)
- 3 (a) Explain **five** importance of filing documents in an office. (10 marks)
- (b) On 1st March 2021, Omino had shs40,000 in hand and shs120,000 at bank. During the month, the following transactions took place:
- March 2: paid rent shs20,000 by cheque.
- March 4: cash sales banked shs42,000.
- March 5: Kimani a debtor settled his account of shs12,000 in cash less 5% cash discount.
- March 7: Paid wages shs8,000 in cash.
- March 12: Withdrew shs10,000 from bank for office use.
- March 18: Paid Borabu a creditor shs48000 in full settlement of his account after deducting 4% cash discount.
- March 23: Received a cheque for shs19,000 from Salome after allowing her a cash discount of shs 1000.
- March 31: Deposited all the cash into the bank except shs15,000
- Required:** Prepare a three column cash book and balance it off. (10 marks)
- 4 (a) Explain **five** negative effects of inflation on the economy of a country. (10 marks)
- (b) Julian runs a factory and has employed fifty workers. Explain **five** reasons why it would be beneficial to assign each worker a specific job in production. (10 marks)
- 5 (a) Explain **five** principles of co-operative societies. (10 marks)
- (b) Explain **five** challenges that Kenya as an economy may be experiencing during the implementation of her development plans. (10 marks)

6 (a) Explain **five** benefits of a business to the society.

(10 marks)

(b) The following details were extracted from the books of Jua kali retailers.

Invoices issued

2022

July 1	Wafula	100,000
4	Esther	50,000
12	Wafula	130,000
26	Esther	70,000

Invoices received

July 1	Wangila	200,000
2	Wangila	90,000
14	Nekesa	40,000
28	Wangila	100,000

Credit notes issued

July 9	Wafula	20,000
26	Esther	15,000

Credit notes received

July 11	Wangila	25,000
27	Wangila	8,000

Required:

Prepare relevant journal entries and show the posting of the totals to the relevant ledger accounts.

(10 marks)

KCSE 2026 TOPGRADE PREDICTION

(BLUEPRINT REPLICA OF KCSE 2026 EXAMINATION)

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 and Index number in the spaces provided.*
- b) Write the name of your school.*
- c) Write the date of examination and sign in the provided spaces.*
- d) All your answers must be written in the spaces provided in this paper.*

For examiners use only

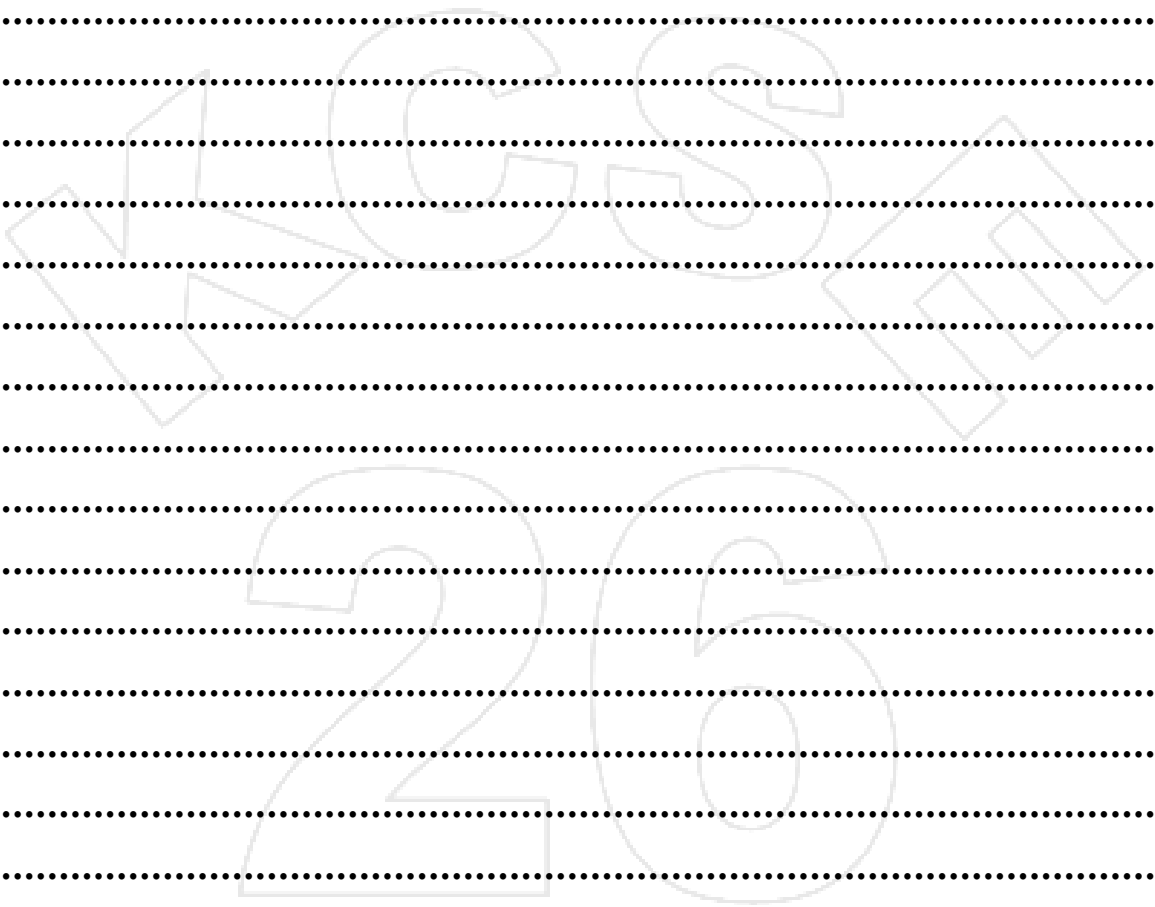
Question	Maximum score	Candidate's score
Functional Skills	20	
Cloze test	10	
Oral skills	30	
Total score	60	

1. FUNCTIONAL WRITING (20 MARKS)

Imagine you are the President of the Students' Council in your school. A member of the council, Janepher Lugusi, applied for a leadership training which is being sponsored by the County Government of Bungoma under the newly created Student Mentorship Program. As the chairperson of the students' council, they have written to you asking that you write a confidential report recommending her for the program. Write a letter directed to:

The Director,
County Mentorship Program,
P.O. Box 4200-200
BUNGOMA.

[illegible]



2. CLOZE TEST. (10Mks)

Read the passage below and fill each blank space with an appropriate word.

The biggest (1)..... facing education today include the low quality of human resources, the need to adapt to the fast-changing digital world, the discrepancy (2)..... classroom learning and the reality outside, and the transformation brought by new technologies. Schools are struggling to keep (3)..... with the progress of science and technology in the era of globalization, and there (4)..... a lack of interest and detachment of learners from the learning environment. (5)....., the education system needs to (6)..... learners for the future by endorsing essential capabilities and employing novel teaching and learning methodologies. There is a need to produce highly innovative graduates (7)..... can creatively apply outside-the-box solutions to global issues. Furthermore, the transformation brought by new technologies, such as artificial (8).....and big data analysis, is also a challenge for marketing education. Overall, (9).....challenges require improvements in the quality of human resources, the learning environment, (10).....the integration of new technologies in education.

3. ORAL SKILLS (30 MARKS)

a) Read the poem below and answer the questions that follow.

“The Debt” By Paul Laurence Dunbar

This is the debt I pay
Just for one riotous day,
Years of regret and grief
Sorrow without relief

Put it I will to the end-
Until the grave, my friend,
Give me a true release-
Give me the clasp of peace

Slight was the thing I bought
Small was the debt I thought
Poor was the loan at best-
God! But the interest.

Questions.

i) Describe the rhyme scheme of the poem above and state its function. (2mks)

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ii) Apart from rhyme, identify and illustrate any other two sound devices used in the poem. (4mks)

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iii) How would you perform line one and two of stanza 1 (2mks)

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vi) How does the punctuation in the second stanza influence your reading of the poem (1mk)

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b) Give words that are pronounced same as the ones given below. (4mks)

i) Quay

ii) Fir

iii) Queue

iv) Jews

c) Indicate the correct intonation for the following sentences (3mks)

i. How did she travel to Nairobi?

ii. Can I take you home?

iii. You are the new student, aren't you?

d) Explain the meaning brought out by stressing the underlined word in each of the following sentences. (3mks)

(i) Muriithi spoke to Gatwiri yesterday.

.....

.....

(ii) Muriithi spoke to Gatwiri yesterday.

.....

.....

(iii) Muriithi spoke to Gatwiri yesterday.

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.....

e) You have been invited to a neighboring school for a debating contest and you happen to be one of the speakers. What are some of the things you would do during the debate to ensure you are successful. (2mks)

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f) Your class teacher has left you an assignment and instructed you to do it in groups. Being chairperson of your group, give three things you would do to ensure you lead a successful discussion. (3mks)

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g) Read the telephone conversation below and answer the questions that follow.

Pritt: Hello, is Valentine there?

Mercy: Hello too, good afternoon to you, I am Mercy, Valentine's cousin. May I ask who is calling please?

Pritt: Oh, this is Pritt Heston, Valentine's classmate. I want to talk to him.

Mercy: I am sorry; Valentine just went out a few minutes ago. Would you like to leave a message or call...

Pritt: (clicking) Tell him he is such a disappointment, we were supposed to go to the movies today.

Mercy: Oh, I guess you will see him soon because he told me he's running to meet his friends.

Pritt: Oh, okay.

Mercy: Alright Pritt, thank you for calling. Bye.

(Pritt hangs up the phone)

i) How has Mercy portrayed appropriate telephone etiquette in the above conversation? (3 marks)

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ii) Identify three instances of Pritt's lack of telephone etiquette in the above conversation (3 marks)

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KCSE 2026 TOPGRADE PREDICTION

(BLUEPRINT REPLICA OF KCSE 2026 EXAMINATION)

ENGLISH

101/2

PAPER 2

TIME: 2½ HOURS

(Comprehension, Literary Appreciation and Grammar)

NAME.....

SCHOOL..... SIGN.....

INDEX NO..... ADM NO.....

Kenya Certificate of Secondary Education.

Instructions to candidates

- ❖ Write your **name**, **admission number** and **class** in the spaces provided.
- ❖ Sign and write the date of the examination in the spaces provided.
- ❖ Answer **all** questions in the spaces provided
- ❖ All your answers must be written in the spaces provided in this question paper.
- ❖ Candidates must answer all questions in English

Question	Maximum Score	Candidate's Score
1. COMPREHENSION	20	
2. EXCERPT	25	
3. POETRY	20	
4. GRAMMAR	15	
TOTAL	80	

1. COMPREHENSION (20 MARKS)

Read the passage below and answer the questions that follow.

Human beings are social creatures. We need the companionship of others to thrive in life, and the strength of our connections has a huge impact on our mental health and happiness. Being socially connected to others can ease stress, anxiety, and depression, boost self-worth, provide comfort and joy, prevent loneliness, and even add years to your life. **On the flip side**, lacking strong social connections can pose a serious risk to your mental and emotional health.

In today's world, many of us rely on social media platforms such as Facebook, Twitter, Snapchat, YouTube, and Instagram to find and connect with each other. While each has its benefits, it is important to remember that social media can never be a replacement for real-world human connection. It requires in-person contact with others to trigger the hormones that alleviate stress and make you feel happier, healthier, and more positive. However, for a technology that is designed to bring people closer together, spending too much time engaging with social media can actually make you feel more lonely and isolated—and exacerbate mental health problems such as anxiety and depression.

Since it is a relatively new technology, there is little research to establish the long-term consequences, good or bad, of social media use. However, multiple studies have found a strong link between heavy social media and an increased risk for depression, anxiety, loneliness, self-harm, and even suicidal thoughts.

Social media may promote negative experiences such as the feeling of inadequacy about your life or appearance. Even if you know that images you are viewing on social media are manipulated, they can still make you feel insecure about how you look or what is going on in your own life. Similarly, we are all aware that other people tend to share just the highlights of their lives, rarely the low points that everyone experiences. But that does not lessen those feelings of envy and dissatisfaction when you are scrolling through a friend's airbrushed photos of their tropical beach holiday or reading about their exciting new promotion at work.

It also causes the Fear of missing out (FOMO.) While FOMO has been around far longer than social media, sites such as Facebook and Instagram seem to exacerbate feelings that others are having more fun or living better lives than you are. The idea that you are missing out on certain things can impact your self-esteem, trigger anxiety, and fuel even greater social media use. FOMO can compel you to pick up your phone every few minutes to check for updates, or compulsively respond to each and every alert—even if that means taking risks while you're driving, missing out on sleep at night, or prioritizing social media interaction over real world relationships.

A study at the University of Pennsylvania found that high usage of Facebook, Snapchat, and Instagram *increases* rather than decreases feelings of loneliness. Conversely, the study found that reducing social media usage can actually make you feel less lonely and isolated and improve your overall wellbeing. Human beings need face-to-face contact to be mentally healthy. Nothing reduces stress and boosts your mood faster or more effectively than eye-to-eye contact with someone who cares about you. The more you prioritize social media interaction over in-person relationships, the more you're at risk for developing or **exacerbating** mood disorders such as anxiety and depression.

About 10 percent of teens report being bullied on social media and many other users are subjected to offensive comments. Social media platforms such as Twitter can be **hotspots** for spreading hurtful rumors, lies, and abuse that can leave lasting emotional scars. Sharing endless selfies and all your innermost thoughts on social media can create an unhealthy self-centeredness and distance you from real-life connections.

If you’re spending an excessive amount of time on social media and feelings of sadness, dissatisfaction, frustration, or loneliness are impacting your life, it may be time to re-examine your online habits and find a healthier balance.

Questions

a) How important is social connection according to the first paragraph? **(2marks)**

.....

.....

.....

b)According to the author, why can interactions through social media never replace person-to-person interaction? **(2marks)**

.....

.....

.....

.....

c) Explain the irony in the second paragraph. **(2marks)**

.....

.....

.....

d) In about 50 words, summarize the negative effects of excessive use of social media. **(6 marks)**

Rough draft

.....

.....

.....

.....

.....

Fair copy

e) What in the passage shows that not all that glitters is gold? (2marks)

f) *Human beings need face-to-face contact to be mentally healthy.* Rewrite this statement in the passive voice. (1mark)

g) What is the **tone of the passage?** (2marks)

h) Give the meaning of the following words and expressions as used in the passage. (3marks)

i) On the flip side-.....

ii) Exacerbating-.....

iii) Hotspots-.....

2. Read the Excerpt below and answer the Questions that follow. (25marks)

“Disaffection is what followed.” Comrade Melusi had finished his sadza. He was washing his hands in a basin, with water the waiter was pouring down from a pitcher. “I went back into business.” Now he was washing his lips, over the basin, which the waiter had raised to his chin. The visitor reached for his coffee and took a sip. “More like it!” he said. “Nice and hot,” he added. Then he turned to comrade Melusi. “Your new business, how did it do?”

“I can’t say it did well. Inflation was eroding incomes faster than they could grow. But I survived. I didn’t live and work in as clean suburb as I did before. I just could not afford the rent there anymore. No, I had relocated to a slum in a poor part of Harare. But, hey, I was alive.” He laughed, falsely. Sorrow was in his eyes. “Then there came Murambatsvina.”

“Them there came what?” asked the visitor.

“‘Murambatsvina’. It is Shona, meaning expelling the trash.”

“Please go on.”

“Bulldozers went from slum to slum evicting residents by tearing their homes to the ground. Murambatsvina expelled us, the trash, all right. We got no advance warning before or alternative accommodation after. Nobody cared whether we lived or died. We had to go. It did not matter where. Just go!”

“Did anyone explain why you had to leave?”

“The bomber tried to. Murambatsvina’s real aim, he said, was to prevent disease and curb crime.”

“Was that its aim?”

Comrade Melusi belched. “Disease and crime increased instead. No, Murambatsvina had nothing to do with curbing of disease or crime. Its true aim was to punish us, the urban poor, for supporting opposition parties.”

a) What happens immediately before the excerpt? (3 marks)

b) Who is being referred to as the visitor? (2 marks)

c) Give and illustrate **one character trait of the visitor. (2 marks)**

d) Explain *two* thematic concerns brought out in the excerpt.

(6 marks)

e) Who is the bomber and why was he given that name?

(2 marks)

f) Identify and illustrate *two* styles used in the excerpt.

(4 marks)

g) “Your new business, how did it do?” (rewrite in reported speech.

(1 mark)

h) What happens immediately after the excerpt?

(2 marks)

i) Explain the meaning of the following words as used in the excerpt.

(3 marks)

i. Eroding

- ii. Sorrow _____
- iii. Curb _____

3. GRAMMAR (15 MARKS)

1. Rewrite the following sentences according to instructions given (4marks)

a. They wondered where the nearest gas station was.(Change into direct speech)

.....

b. None of them is happy.(Supply a question tag)

.....

c. We were amazed that the child knew all those songs after all she was only four years old
(punctuate correctly)

.....

.....

d. I believe they are now man and wife because they have been declared man and wife.(Use
substitution)

.....

.....

2. Indicate whether the verb in the following sentences has been used transitively or
intransitively. (3marks)

a. He **knelt**. (.....)

b. He **took** many photographs. (.....)

c. The boys **hid** behind the kitchen. (.....)

3. Fill in the blanks with appropriate pronouns in the brackets. (3marks)

a. All the children came inside except.....(she/her)

b. Can you dance as well as (they/them)

c. Nobody but (he/him) was present.

4. Fill in the blanks with the correct form of the words in brackets (3marks)

- a. It is (treason)to even imagine the death of a sitting president
- b. The driver nearly caused a accident when the car rammed into a bus(fate)
- c. His..... (pronounce)did not make sense to the audience.

5. Replace the underlined word with appropriate phrasal verb. (2marks)

- a. His mother scolded him for breaking the window.

.....

.....

- b. Jane was late, so she fabricated an excuse to avoid trouble.

.....

.....

THIS IS THE LAST PRINTED PAGE

KCSE 2026 TOPGRADE PREDICTION

(BLUEPRINT REPLICA OF KCSE 2026 EXAMINATION)

ENGLISH

101/3

PAPER 3

TIME: 2½ HOURS

(Creative Composition and Essays Based On Set Books)

NAME.....

SCHOOL..... SIGN.....

INDEX NO..... ADM NO.....

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

- a)** Answer **three** questions only
- b)** Questions **one** and **two** are compulsory
- c)** In question three choose only **one** of the optional texts you have prepared on.
- d)** Where a candidate presents work on more than one optional text, only the first to appear will be marked
- e)** Each of your essay must not exceed **450** words
- f)** All answers should be written in the answer booklet provided
- g)** Candidates **must** answer **ALL** questions in English

For Examiner's use only

Question	Maximum Score	Student's Score
1.	20	
2.	20	
3.	20	
Total	60	

IMAGINATIVE COMPOSITION (COMPULSORY)

1. Imaginative Composition (compulsory)

(20 marks)

Either

(a) Write a composition beginning

The moment I saw him, I knew my life would...

Or

(b) Write a composition on the following statement: "Technological advancement has impacted negatively on the society, especially the youth."

2. The Compulsory Set Text: Fathers of Nations by Paul B. Vitta.

(20 marks)

Seeking revenge due to discontent often leads to pain and suffering. Referring closely to Paul Vitta's *Fathers of Nations*, write an essay in support of this statement.

3. The Optional Set Texts.

(20marks)

Answer any one of the following questions.

Either

(a) The short story: Godwin Shiundu, 'A Silent Song and Other Stories'.

Hypocrisy is a common trait in most human beings. Using the characters from the short story 'A Truly Married Woman by Abioseh Nicol,' discuss the truth of this statement.

Or

b) The play :*Parliament of Owls by Adipo Sidang*'

Parliament of Owls by Adipo Sidang' explores oppression in society. Drawing illustrations from the text, support this assertion.

Or

c) The Novel: An Artist of the floating world by Kazuo Ishiguro

"Change is inevitable." With illustrations from the novel, *An Artist of the Floating World* by Kazuo Ishiguro, write an essay to support this statement.

KCSE 2026 TOPGRADE PREDICTION

(BLUEPRINT REPLICA OF KCSE 2026 EXAMINATION)

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:

1. Jibu maswali mawili. .
2. Majibu yote ***lazima*** yaandikwe kwa lugha ya Kiswahili
3. Kartasi hii inakurasa 2 zilizopigwa chapa
4. Kila insha isipungue maneno 400
5. Kila insha ina alama 20
6. Kisha chagua insha nyingine moja kati ya hizo tatu zilizobakia

Kwa Matumizi ya Mtahini Pekee.

Swali	Upeo	Alama
	20	
	20	
JUMLA	40	

1.Siku za hivi karibuni umesoma riwaya ya mpya iliyoandikwa na Msanifu Kombo inayoitwa Afrika Imelaaniwa.Andika tahakiki ya riwaya hii.

2.Katika eneo la Tujikaze kumekuwa na ongezeko la visa vya udanganyifu katika mitihani ya kitaifa.Wewe ni katibu wa jopokazi lililoteuliwa kuchunguza sababu au chanzo cha visa hivyo.Andika ripoti ya uchunguzi huo huku ukitoa mapendekezo.

3.Andika kisa kitakachodhihirisha maana ya methali ifuatayo:

Mchuma janga hula na wakwao

4. Tunga kisa kinachoanza kwa maneno yafuatayo:

Maandamano hayo yalichacha.Kila mmoja wetu alikuwa akiimba wimbo wa “Haki yetu!” Haki yetu! Sote tulikuwa tumevumilia ya kutosha.Tulijua kuwa lazima tui pate hiyo haki leo...

KCSE 2026 TOPGRADE PREDICTION

(BLUEPRINT REPLICA OF KCSE 2026 EXAMINATION)

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:

1. Jibu maswali yote.
2. Majibu yote yaandikwe katika nafasi ulizoachiwa katika karatasi hii ya maswali.
3. Majibu yote ***lazima*** yaandikwe kwa lugha ya Kiswahili
4. Kartasi hii inakurasa 10 zilizopigwa chapa
5. Watahiniwa ni lazima wahakikishe kuwa kurasa zote za kartasi hii zimepigwa chapa sawasawa na kuwa maswali yote yamo.

Kwa Matumizi ya MtahiniPekee.

Swali	Upeo	Alama
1. UFAHAMU	15	
2. UFUPISHO	15	
3.MATUMIZI YA LUGHA	40	
4.ISIMU JAMII	10	
JUMLA	80	

a) UFAHAMU (ALAMA 15)

Soma kifungu kifuatacho kisha ujibu maswali.

“Hamjambo enyi nyote mliofika katika hafla hii? Mimi ni mheshimiwa Mambo. Ndimi mbunge wa eneo la Kamili. Nimefika hapa kutokana na mwaliko wa mbunge mwenzangu wa eneo hili la Tushauriane. Lengo letu la kufika hapa ni kuchanga pesa za kugharimia mradi wa ujenzi wa madarasa ya watoto wetu. Kama mjuavyo, serikali imeanzisha *curriculum* ya shule za msingi isiyo ya malipo. Hatua hiyo imechangia watoto wengi wasajiliwe katika shule. Kama wahenga walivyonena hakuna masika yasiyokuwa na mbu. Baadhi ya watoto wetu wamejipata wakisomea chini ya miti.

Nasi hatutaki hali hii iendelee. Ndiposa leo tupo hapa kuchanga pesa. Ni wajibu wetu kusaidia ujenzi wa madarasa. Tuisubiri serikali itufanyie kila jambo. Halikadhalika, tukibebwa tusilevyelevye miguu. Tukishirikiana, bila shaka tutafua dafu. Tukumbuke kuwa umoja ni nguvu.” Alikonga roho kwa funda la maji kisha akaendelea. “Hatuna budi kuhakikisha kuwa watoto wetu wamepata elimu bora kwani elimu ni mwangaza. Ni mwangaza wa kumulika tunakoelekea. Tukiwapa watoto wetu elimu, siku za usoni watakuwa watu wa kutegemewa wala sio wa kutegemea. Hata hivyo, elimu pekee haitoshi. Sharti tuwahimiza wanetu wawe na heshima na nidhamu. Nidhamu ikikosa kwa watoto wetu, elimu yao itakuwa bure bilashi. Nasi wavyele sharti tuwe vielelezo kwa watoto wetu. Tuzingatie mienendo na matendo mema. Tuelewe kuwa mwana hutazama kisogo cha nina.

Sijui ni kwa nini wahenga hawakusema kisogo cha baba”, Umma uliangua kicheko. “Nanyi watoto kamwe msijigeuze kuwa punda ambaye fadhila zake ni mashuzi. Sharti mwonyeshe shukrani kwa wema mnaotendewa. Shukrani zenu mtazionyesha kwa bidii curriculumi, nidhamu ya kiwango cha juu na uajibikaji. Kamwe msiingilie anasa. Anasa ni pingu. Epukeni anasa na muipe elimu yenu kipaumbele. Kumbukeni mwangata mbili moja humponyoka. Elimu ikiwaponyoka, mtajiuma vidole mnamo siku za usoni. Vilevile, ni vizuri nyinyi vijana mjue kuwa, mnatembea katika njia iliyo katikati ya bahari na moto. Upande mmoja upo moto wa ukinwi, upande ule mwingine ipo bahari ya dawa za kulevya. Sharti mtembee kwa uangalifu pasi kwenda kombo la sivyo ...

Kama nilivyokuwa nimenena hapo awali, lengo kuu la kukutana hapa ni kuchanga pesa. Nitupapo macho pale maegeshoni, siyaoni magari mengi. Hata hivyo, hilo halinivunji moyo. Ninaelewa kuwa, kutoa ni moyo usambe ni utajiri. Sasa ni wakati wa kuchanga pesa. Kila mja alete alichu nacho; kiwe kidogo au kikubwa. Tukumbuke kuwa haba na haba hujaza kibaba na tembe kwa tembe huwa mkate. Karibuni katika mchango, ahsanteni.”

a) Kwa nini baadhi ya watoto wamejipata wakisomea chini ya mti?

(al. 2)

.....

.....

.....

b) Ni vipi elimu pekee haitoshi?

(al. 2)

.....

.....

.....

c) Taja njia ambazo watoto hutolea shukrani kwa wema wanaotendewa.

(al. 4)

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d) Taja mambo yanayowakibili vijana kwa mujibu wa taarifa.

(al. 1)

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.....

e) Wazazi wanachangia vipi kwa maadili ya wanao?

(al. 2)

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.....

f) Eleza maana ya mwangata mbili moja humponyoka ukirejelea ushauri wa mnenaji.

(al. 3)

.....

.....

.....

.....

g) Mambo yapi yanayoonyesha kuwa mnenaji ni mcheshi?

(al. 1)

.....

.....

b) UFUPISHO (ALAMA 15)

Soma kifungu kifuatacho kisha ujibu maswali.

Ponografia ni tendo, maandishi, picha au michoro inayoonyesha au kueleza uchi wa mtu au vitendo vya ngono kwa ajili ya kuchochea ashiki ya kuifanya. Mambo haya machafu huwasilishwa ana kwa ana kupitia sinema, magazeti, vitabu, muziki, televisheni, tovuti na kanda za kunasa picha na sauti.

Ponografia imekuwepo tangu jadi, hasa katika nchi za magharibi. Lakini sasa limekuwa tatizo sugu. Hii ni kwa sababu imeenea kote ulimwenguni mithili ya moto mbugani wakati wa kiangazi. Kuenea kwake kumechangiwa na mambo kadha wa kadha. Mchango mkubwa zaidi ukiwa umetokana na kuimarika kwa vyombo vya teknolojia ya habari na mawasiliano. Hata hivyo kazi hii hubuniwa au hutengenezwa na makundi mbalimbali ya watu. Miongoni mwa hawa ni watu wasiojali maadili. Pili, kuna wale wenye matatizo ya kisaikolojia na kijamii. Wao hutengeneza na kueneza uchafu huu kwa lengo la kuvuruga maadili katika jamii au kuchukiza wanajamii waadilifu. Kundi lingine ni lile la wanaoichukulia ponografia kama nyenzo ya kutosheleza ashiki zao. Kwa mfano, baadhi ya wanamziki hutumia ponografia kuvutia wateja na hivyo kuzidishisha mauzo yao.

Kushamiri kwa wimbi na uonyeshaji wa ponografia kuna athari kubwa kwa jamii hasa watoto. Ingawa watu wengine hudai picha hizi haziwaathiri, upo ushahidi kuonyesha kuwa wale wanaotazama picha za ngono hupata matatizo. Lazima ieleweke kwamba kinachoonekana kwa picha na kusikia kwa sikio huathiri fikira au hisia. Picha za matusi zinachangia kwa kiasi kikubwa kuharibu akili. Badala ya kuzingatia mambo muhimu kama vile masomo, watu huanza kutafakari mambo machafu.

Vijana wengi ni kama bendera, huyaiga wanayoyaona na kuyasikia. Hili ni tatizo linalowafanya kuacha mkondo wa maadili. Hivyo basi wengi hushawishiwa kuingilia shughuli za ngono mapema kabla hawajakomaa kimwili, kiakili na kihisia. Matokeo yake ni ukahaba, utendaji mbaya shuleni, mahudhurio mabaya darasani na mimba zisizotarajiwa. Vijana wengi huacha shule kabisa huku wengine wakiambukizwa magonjwa ya zinaa ambayo yanaweza kuwaletea mauti.

Yasemekana kuwa akili za mwanadamu hunasa zaidi mambo yanayowasilishwa kwa picha na hivyo basi matusi haya yaweza kudumishwa katika kumbukumbu zao. Tabia mbaya kama vile ushoga, ubasha na usagaji huwa matokeo yake na hata matokeo ya vijana hugeuka waapoanza kuiga mitindo mibaya ya mavazi yanayoanika uchi wao. Hali kadhalika, lugha, ishara na miondoko inayohusiana na ngono huibuka. Yote haya yanakinzana na desturi za Mwafrika. Si ajabu visa vya ubakaji vinaongezeka kuchapo. Utamazamaji wa picha chafu aghalabu huandamana na maovu mengine kama vile unywaji pombe na matumizi ya vileo ambavyo huchochea uchu wa ngono na kuibua tabia za kinyama.

Kuendelea kuzitazama picha huzifanya nishai na hisia za watu kuwa butu, huondoa makali kiasi kwamba hata katika uzima mtu hupoteza mhemko na kugeuzwa kuwa mtegemezi wa ponografia. Tatizo hili linaenea kwa vishindo mjini na vijijini. Ipo haja ya dharura kuikinga jamii kutokana na malezi haya yasiyo na kizuizi.

Kuuongeza ufahamu wa umma wote kuhusu uovu wa picha hizi, watu wazima kuwajibika kwa kuwalinda na kuwahimiza vijana kuhusu maovu haya na wale wenye midahalisi, video na sinema

kutowaruhusu vijana kutazama uchafu huu kunaweza kuwa namna ya kuyakinga na hata kuyaepuka madhara ya ponografia. Ni sharti pia sheria izuie na kupiga marufuku utengenezaji na uenezaji wa upungufu huu. Bila shaka sheria na hatua kali ziweze kuchukuliwa dhidi ya waivunjao. Wazazi wasijipweteke tu bali wawaelekeze watoto wao ipasavyo na kila mtu atekeleze jukumu lake.

a) Fupisha ujumbe wa **aya tatu za kwanza** kwa maneno 70. (alama 6)

Matayarisho

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Jibu

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(alama 9)

This image shows a full page of primary-ruled paper. It features multiple sets of horizontal dotted lines spaced evenly down the page, providing a guide for handwriting practice. A large, light gray watermark with the letters "KCS" is oriented diagonally from the bottom-left towards the top-right, centered across the page. The background is white, and there are no other markings or text present.

c) MATUMIZI YA LUGHA (alama 40)

a) Taja sauti zifuatazo:

(al.2)

i) Kikwamizo sikhuna cha ufizi

.....

ii) Nusu irabu ya kaaka gumu

.....

iii) Nazali ya cha kaaka laini

.....

iv) kitambaza cha ufizi

.....

b) Andika neno yenye miundo ifuatayo.

(al. 1)

Irabu, Konsonanti, Irabu, Irabu, Konsonanti, Irabu

.....

c) Kutokana na mzizi ‘-zuri’ unda;

i) Nomino

.....

(al. 1)

ii) Kivumishi

.....

(al. 1)

d) Ainisha mofimu katika neno lifuatalo.

(al. 2)

ajengavyo

.....

.....

e) Tunga sentensi yenye kiwakilishi cha pekee chenye dhana ya kusisitiza katika ngeli ya U-ZI

(al.2)

.....

.....

f) Andika katika usemi wa taarifa.

(al.2)

“Wewe utasafiri Mombasa jioni ya leo na mwenzako mdogo.” Mama alimwambia Kibibi.

.....

.....

g) Ainisha virai katika sentensi ifuatayo.

(al. 2)

Wanafunzi wengi walikuwa nadhifu kabla ya shughuli hiyo.

.....

.....

.....

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.....

h) Andika katika hali yakinishi.

(al. 1)

Juma huwa haendi sokoni, huenda hutampata.

.....

i) Andika sentensi zifuatazo upya kulingana na maagizo.

(al. 2)

i) Mwanariadha mmoja tu ndiye aliyefuzu katika mbio hizo(tumia hakuna na ila)

.....

.....

ii) Waigizaji wengine wameingia jukwaani. (Tumia kivumishi cha pekee kuonyesha ziada)

.....

.....

iii) Mhandisi alikarabati mtambo. Mtambo ulikuwa kiwandani. (Uganisha bila kutumia kiunganishi)

.....

.....

j) Andika sentensi ifuatayo katika wakati ujao, hali timilifu. (al. 2)

Mbunge alitawazwa kabla ya mpinzani wake kufika.

.....

.....

k) Ainisha vitenzi katika sentensi ifuatayo. (al. 2)

Wanafunzi walikuwa wanakariri mashairi.

.....

.....

.....

.....

l) Bainisha shamirisho na chagizo katika sentensi ifuatayo. al. 3)

Watoto walipikiwa chakula hicho kwa haraka.

.....

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.....

m) Andika katika hali ya ukubwa wingi. (al. 2)

Mzee huyu ana wake wengi.

.....

n) Tambua kishazi huru na tegemezi katika sentensi ifuatayo (al.2)

Kuimba ambako kutavutia kutashinda tuzo.

.....

.....

.....

o) Koloni hutumiwa kubainisha saa na dakika. Onyesha matumizi mengine mawili ya koloni.

(al. 2)

.....

.....

.....

p) Nomino zifuatazo zimo katika ngeli gani?

(al. 2)

i) miwani

.....

ii) uta

.....

q) Tunga sentensi moja kutofautisha maana ya **fuma** na **vuma**.

(al. 2)

.....

.....

.....

r) Andika sentensi ifuatayo katika wingi.

(al. 1)

Seremala alilainisha mbao hiyo na akanitengenezea meza.

.....

s) Tunga sentensi yenye muundo ufuatao.

(al. 2)

$KN(N+RH)+KT(Ts+T)$

.....

.....

t) Tumia **ni** katika sentensi moja kuleta dhana ya kitenzi na kielezi

(al.1)

.....

u) Mwanafunzi ni kwa mwanagenzi ,bender ani kwa**na****ni**
hekima.

(al.2)

b) ISIMUU JAMII (Alama 10)

... Watu wa kaunti ya Maji Mazuri wamesahaulika kabisa. Ningependa kuelezwa kinaga ubaga kama hawa ni Wakenya au la. Order! Order! Mheshimiwa Tumbili.

a) Bainisha sajili hii.

(al. 2)

.....

.....

.....

b) Fafanua zozote tatu zinazojitokeza katika Makala haya.

(al. 3)

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.....

c) Kando na sifa ulizozitaja katika sehemu ya (b) eleza sifa zozote tano zinazohusiana na sajili hii

(al.5)

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KCSE 2026 TOPGRADE PREDICTION

(BLUEPRINT REPLICA OF KCSE 2026 EXAMINATION)

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

1. Jibu maswali **manne** pekee.
2. Swali la kwanza ni la **lazima**.
3. Maswali mengine matatu yachaguliwe kutoka sehemu zilizozalia: **Hadithi Fupi, Tamthilia, Ushairi na Fasihi Simulizi**.
4. Usijibu maswali **mawili** kutoka sehemu **moja**.
5. Majibu yote lazima yaandikwe kwa lugha ya Kiswahili.
6. Watahiniwa lazima wahakikishe kwamba kurasa zote za karatasi hii zimepigwa chapa sawa sawa na kuwa maswali yote yamo.
7. **Karatasi hii ina kurasa sita za maswali.**

KWA MATUMIZI YA MTAHINI PEKEE

SWALI	UPEO	ALAMA
1	20	
	20	
	20	
	20	
JUMLA	80	

1) SEHEMU YA A- LAZIMA

RIWAYA YA NGUU ZA JADI NA PROFESA CLARA MOMANYI

“Samahani... Nina shida kidogo. Ninaomba usaidizi. Sikuwa nikilipa ushuru katika biashara zangu. Sasa wanataka kuzifunga na kunipeleka kotini.”

- a) Eleza muktadha wa dondoo (alama 4)
- b) Bainisha toni katika dondoo hili (alama 2)
- c) Eleza sifa nne za msemewa (alama 4)
- d) Msemaji wa maneno haya na wengine ni adui ya wananchi wa Matuo. Eleza ukweli wa kauli hili. (alama 10)

SEHEMU B: TAMTHILIA: BEMBEA YA MAISHA – TIMOTHY AREGE

Jibu swali la 2 au la 3.

2. Basi tu! Wenzenu ndio waliioniingiza kwenye mkondo huu. Kama unakumbuka nilikuwa miongoni mwa vijana kwanza kuingia kwenye dini. Hata tulikuwa tunahubiri.

- (a). Fafanua muktadha wa dondoo hili. (alama 4)
- (b). Tambua kwa kutolea mfano wa toni inayojitokeza katika muktadhaa huu. (alama 2).
- (c). Tambua mbinu za kimtindo zilizotumika katika dondoo hili. (alama 2).
- (d). Kwa kurejelea mifano mbalimbali eleza madhara au matokeo ya maneno yaliyopigiwa mstari katika tamthilia hii kwa jamii husika. (alama 12)

Au

3. Fafanua mabadiliko yanayojitokeza katika tamthilia ya Bembea ya maisha (alama 20)

SEHEMU YA C :HADITHI FUPI

MAPAMBAZUKO YA MACHWEONA HADITHI NYINGINE

Jibu swali La 4 au 5

WINNIE NYARURI OGENCHE: SABINA

4. Maneno ya ripota huyo yalimwiingia Ombati maskioni yakasalia huko. Hayakufika akilini. Mwalimu mkuu alipenya kwenye umati uliokuwa umeanza kuwa mkubwa na kumtaka Ombati awaelekeze alikokuwa Sabina. Kabla ya Ombati kuwajibu, Sabina alifika nyumbani amevaa rinda kuukuu huku harufu ya samadi inamvuka. Watu waliokuwa wakimngoja walimzoa juujuu na kuanza kuimba tena. Ombati aliwafurusha wageni waliokuja kumwoa Sabina pamoja na mifugo wao. Baada ya kufanya hivyo, alijiunga na Sabina kuhojiwa na kupigwa picha. Alijitana jinsi alivyotunukiwa kumlea mwana mwepesi masomoni.

- a) Eleza umuhimu wa mhusika Sabina katika **kukuza hadithi husika**. (alama 6)
 - b) Kwa kutoa mifano mwafaka kutoka kifunguni, onyesha **aina nne za taswira** zilizojitokeza. (alama 4)
 - c) Fafanua **changamoto** zinazokabili jinsia ya kike kwa mujibu wa hadithi hii. (alama 10)
5. Kwa kurejelea hadithi zozote tano jadili changamoto zinazokabili sekta ya elimu. (alama 20)

SEHEMU YA D USHAIRI

Jibu swali la 6 au la 7

6 Soma shairi lifuatalo kasha ujibu maswali

Naogopa, kukupa wangu mtima, sitaki mie nilie
Naogopa, kutoa yangu kalima, eti wewe utulie
Naogopa, ninashindwa kusimama, wewe pete unitie
Naogopa, wanaume wanauma, ja panya wapulizie.

Naogopa, kwita wako mama mama, nami anikaripie
Naogopa, sipendi nyingi dhuluma, za wanaume nilie
Naogopa, kushinda nimeinama, goti mume nipigie
Naogopa, za mkemwenza hujuma, matusi anipatie.

Naogopa, uchungu ukiniuma, mwana nikakuzalie
Naogopa, kupigwa kama ngoma, ndiposa nikatulie
Naogopa, kila kitu kunisoma, ndo hela unipatie
Naogopa, kuitwa mwizi wa sima, ila nikuandalie.

Naogopa, dadazo kuwaandama, udaku wakanitie
Naogopa, kuuleta uhasama, mimi mnipiganie
Naogopa, koritini kusimama, mali tukashindanie
Naogopa, kumwaga wenu mtama, kuku niwamiminie,

Naogopa, naogopa ninasema, yabidi uvumilie
Naogopa, nawe babu kusimama, eti ndoa niingie
Naogopa, ndoto zangu kuzizima, hili doa nijitie
Naogopa, taa yangu kuizima, mwingine jitafutie.

MASWALI

- | | |
|---|-----------|
| a) Lipe shairi hili anwani mwafaka. | (Alama 1) |
| b) Eleza dhamira ya mtunzi wa shairi hili. | (Alama 1) |
| c) Nani nafsi nenewa katika shairi hili? | (Alama 1) |
| d) Taja tamathali za lugha zilizotumika katika shairi hili. | (Alama 2) |
| e) Fafanua uhuru wa ushairi alioutumia malenga. | (Alama 2) |
| f) Weka shairi hili katika bahari mbalimbali. | (Alama 3) |
| g) Andika ubeti wa tatu kwa lugha nathari. | (Alama 4) |
| h) Kwa nini nafsi neni anasita kuchukua hatua? | (alama 4) |
| i) Vifungu vifuatavyo vina maana gani katika shairi? | (alama 2) |
| i. Taa yangu kuizima | |
| ii. Dhuluma | |

Au

7 Soma shairi lifuatalo kisha ujibu maswali

Ee mpwa wangu,
Kwetu hakuna muoga,
Uoga ukikufikia, huenda ni wa akina mamayo,
Fahali tulichinja ili uwe mwanamume,
Eewe mpwa wangu, kisu kikali ajabu!
Iwapo utatingisha kichwa,
Uhamie kwa wasiotahiri.

Wanaume wa mbari yetu,
Si waoga wa kisu,
Wao hukatwa kuanzia macheo hadi machweo,
Wewe ndiye wa kwanza,
Iwapo utashindwa,
Wasichana wote,
Watakucheka,
Ubaki msununu,
Simama jiwe liwe juu,
Ndege zote ziangamie.

Simu nimeipokea,
Ngariba alilala jikoni,
Visu ametia makali,
Wewe ndiye wangojewa,
Hadharani utasimama,
Macho yote yawe kwako,
Iwapo haustahimili kisu,
Jiuzulu sasa mpwa wangu,
Hakika sasa mpwa wangu,
Hakika tutakusamehe, mwaka kesho unakuja.

Asubuhi ndio hii,
Mama mtoto aamushwe,
Upweke ni uvundo,
Iwapo utatikisa kichwa,
Iwapo wewe ni mume,
Kabiliana na kisu kikali,
Hakika ni kikali!

Kweli ni kikali!
Wengi wasema ni kikali!
Fika huko uone ukali!

Mbuzi utapata,
Na hata shamba la mahindi,
Simama imara,
Usiende kwa wasiotahiri

Maswali

- (a) Hili ni shairi la aina gani? Thibitisha. (alama 2)
- (b) Ni nani anayeimba shairi hili na analiimba kwa nani ? (alama 2)
- (c) Toa ithibati kwenye shairi hili kuthibitisha kuwa msimulizi ana taasubi ya kiume. (alama 2)
- (d) Taja kwa kutolea mifano mbinu zozote nne za uandishi katika shairi hili (alama 4)
- (e) Taja shughuli zozote **mbili** za kiuchumi za jamii inayorejelewa katika shairi hili. (alama 2)
- (f) **Eleza** kwa mifano, uhuru wa kishairi katika shairi hili (alama 4)
- (g) **Msamiati** ufuatao umetumika kwa maana gani katika shairi hili? (alama 4)
- (i) Mbari
 - (ii) Msununu
 - (iii) Ngariba
 - (iv) Uvundo

1) FASIHI SIMULIZI.

Soma kifungu kifwatacho kisha ujibu maswali yanayofuata.

Mwanangu, masomo ni jambo muhimu sana. Utakapofika chuoni na kuanza maisha ya chuo kikuu, tafadhali usijiingize katika mambo ya dunia; anasa na raha nyingi. Vitabu view rafiki wa karibu. Jaribu kusaidiana na wenzako na utie bidii za mchwa masomoni.

Mwanangu kumbuka elimu ndio ufunguo wa maisha mema hapo usoni. Isitoshe safari yako ya maisha mema usoniunaanza uifikapo kule. Jiepushe na mambo mabaya ili usiangukiwe na mti.

Maswali

- a) Kwa kutolea mifano, tambua kipera hiki. (alama 2)
- b) Bainisha sifa za kipera hiki (alama 5)
- c) Tambua nafsi neni na nenewa katika kipera hiki. (alama 2)
- d) Fafanua vipengele muhimu katika kufanikisha uwasilishaji wa fasihi simulizi. (alama 5)
- e). Wewe ni kati ya wanaotambiwa hadithi katika mandhari maalum. Fafanua mambo ambayo wewe na wenzako mnaweza kuchangia wakati wa utambaji. (alama 6)

KCSE 2026 TOPGRADE PREDICTION

(BLUEPRINT REPLICA OF KCSE 2026 EXAMINATION)

CHRISTIAN RELIGIOUS EDUCATION

313/1

PAPER 1

TIME: 2½ HOURS

NAME.....

SCHOOL..... SIGN.....

INDEX NO..... ADM NO.....

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

- 1) Write the Name, Admission number and Index number in the spaces provided above.
- 2) Sign and write the Date of the examination in the spaces provided above.
- 3) Answer any five questions.
- 4) Each question carries 20 marks.
- 5) Candidates should answer the questions in English.

FOR EXAMINER'S USE ONLY

QUESTION	1	2	3	4	5	6	CANDIDATES TOTAL SCORE
CANDIDATES SCORE							

Answer Any Five Questions

1. (a) State **six** similarities found in both biblical and traditional African views on creation. (6mks)
- b) Give similarities between traditional African view of evil and the biblical concept of sin. (7mks)
- c) State six ways in which Christians in Kenya help restore a member who has fallen into sin. (6mks)
2. (a) State four ways in which God demonstrated His concern for the Israelites during the exodus. (8mks)
- b) How did the Israelites worship God when they were in the wilderness? (5mks)
- c) Identify seven challenges that Christians face while practicing their faith in Kenya today. (7mks)
3. (a) State **seven** challenges faced by Elijah during his prophetic ministry in Israel. (7mks)
- (b) With reference to 1st Kings 21:17-29 give forms of punishment prophesied by Elijah to king Ahab and Queen Jezebel. (6mks)
- (c) Pastor Chitechi has just been posted in your church following the retirement of pastor Benjamin. What are some of the challenges pastor Chitechi is likely to Experience in his work? (7mks)
4. (a) Identify **seven** ways in which the Israelites disobeyed God during the time of prophet Amos (7mks)
- (b) Outline the teachings of prophet Amos on the day of the Lord . (7mks)
- (c) State **six** lessons learned about God from the teaching of Amos on judgement and punishment. (6mks)
5. (a) Describe the personal life of Prophet Jeremiah. (8mks)
- (b) Explain the circumstances that led the Israelites to be taken to exile in Babylon during the time of prophet Jeremiah. (7mks)
- (c) List **five** moral values that a Christian can acquire from the life of prophet Jeremiah. (5mks)

6. (a) Outline traditional African practices which demonstrate peoples believe in God. **(7mks)**
- (b) State the rituals performed during the naming of a baby in Traditional African Society. **(7mks)**
- (c) Give **six** factors that have undermined Traditional African practices of given dowry. **(6mks)**



KCSE 2026 TOPGRADE PREDICTION

(BLUEPRINT REPLICA OF KCSE 2026 EXAMINATION)

CHRISTIAN RELIGIOUS EDUCATION

313/2

PAPER 2

TIME: 2½ HOURS

NAME.....

SCHOOL..... SIGN.....

INDEX NO..... ADM NO.....

Kenya Certificate of Secondary Education.

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

- 1) Write the Name, Admission number and Index number in the spaces provided above.
- 2) Sign and write the Date of the examination in the spaces provided above.
- 3) Answer any five questions.
- 4) Each question carries 20 marks.
- 5) Candidates should answer the questions in English.

FOR EXAMINER'S USE ONLY

QUESTION	1	2	3	4	5	6	CANDIDATES TOTAL SCORE
CANDIDATES SCORE							

Answer Any Five Questions

- 1a) Show** how Jesus fulfilled the old testament prophecies concerning the coming of the messiah in the new testament (6 mks)
- b) Describe** the events that occurred when Angel Gabriel visited Mary.(Lk 1:26- 38) (8 mks)
- c) In achurch service there are various activities.Explain why it is necessary to sing in achurch service (6 mks)
- 2a) In** relevance to lk:4:1-13, Relate the temptations of Jesus in the wilderness. (7 mks)
- b) Explain why jesus was rejected at Nazareth (Lk 4:14-30) 6mks.
- c) Give the reasons why christians find it difficult to help the less formulate in the society. (7 mks)
- 3a) Explain** the teachings of Jesus on eschatology. (Lk 21:5-28) (7 mks)
- b) Outline the events that took place on Mt. Olive before the arrest of Jesus.(Lk 22:39-47)(7 mks)
- c) Highlight preparations being made by Christians for the second coming of Christ. (7mks)
- 4a) Relate** the manifestation of the Holy Spirit on the day of Pentecost. (Acts 2:1-13) (7 mks)
- b) Using St.Pauls illustration on the unity of believers,describe his teaching on the body of christ (7 mks)
- c) Explain ways in which Christians demonstrate peace as a fruit of the Holy Spirit. (6 mks)
- 5a) Outline** the responsibilities of children within afamily
- b)Explain reasons why devorce was rare in traditional african marriage
- c) state the causes of conflicts between parents and children in families. (7 mks)
- 6a) Explain** how Modern sciences has negatively affect modern society. (6 mks)
- b) State seven factors that have contributed to the misuse of leisure in Kenya. (7 mks)
- c) Outline human activities which are a threat to environment. (7 mks)

KCSE 2026 TOPGRADE PREDICTION

(BLUEPRINT REPLICA OF KCSE 2026 EXAMINATION)

HISTORY AND GOVERNMENT

311/1

PAPER 1

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 the **name** of your school in the spaces provided above.
- (b) **Sign** and **write** the **date** of examination in the spaces provided above.
- (c) This paper consists of **THREE** sections A, B and C
- (d) Answer **all** questions in section A, choose **three** questions in section B and **two** questions in section C
- (e) Answers to all questions must be written in the answer booklet provided

FOR EXAMINER USE ONLY

<u>SECTION</u>	<u>SECTION B</u>				<u>SECTION C</u>			<u>GRAND</u>
<u>A</u>								<u>TOTAL</u>
1-17	18	19	20	21	22	23	24	

SECTION A (25MKS)

Answer all questions in this section

1. **Give two** scientific sources of information on History of Kenyan communities during the pre-colonial period. (2mks)
2. **Name** the ethnic community that Maasai assimilated. (1mk)
3. **State** two ways in which the knowledge of iron working helped in the migration of the Bantus. (2mks)
4. **Give one** duty of warriors among the Maasai during the pre-colonial period. (1mk)
5. **Highlight** one reason why the Portuguese failed to spread Christianity along the coast of Kenya (1mk)
6. **Give** one advantage of using Arbitration as a method of conflict resolution. (1mk)
7. **Define** the term Dual citizenship. (1mk)
8. **State two** reasons why Africans were denied the right to grow cash crops during colonial period in Kenya. (2mks)
9. **Outline** the main change brought by the constitutional amendment of 1982 in Kenya. (1mk)
10. **Mention** two factors that enabled British to colonized Kenya in the 19th century. (2mks)
11. **State** the main contribution of Jaramogi Oginga Odinga in the history of Kenya. (1mk)
12. **Identify** two methods used by Trade Unionists to demand for their rights during the colonial period in Kenya. (2mks)
13. **Give two** functions of the sergeant at arms in the Kenyan parliament. (2mks)
14. **Identify two** occasions which the president attends the parliament in Kenya. (2mks)
15. **Name** the body that is responsible for conducting elections in Kenya. (1mk)
16. **State** two ways through which Savings and Credit cooperation Societies in Kenya benefits their members. (2mks)
17. **Identify** one example of external sources of revenue to the Kenya Government. (1mk)

SECTION B (45 MARKS)

Answer any three questions in this section.

- 18 a). **Name** five Eastern Cushitic speakers in Kenya. (5mks)
- b) Explain five results of the interaction between the Bantu and the Cushite during the pre-colonial period. (10mks)
19. a) **Give** three ways in which Seyyid Said promoted International Trade. (3mks)

b) Describe six results of the Plantation Agriculture in the East African Coast by Seyyid Said.
(12mks)

20. a) State three terms of the Anglo-German Agreement of 1886. **(3mks)**

b) Discuss six factors that contributed to the formation of political Associations in Kenya before 1939. **(12mks)**

21. a) Identify three sources of Nyayoism. **(3mks)**

b) Explain six social effects of National Philosophies in Kenya. **(12mks)**

SECTION C (30 MARKS)

(Answer any two questions in this section)

22. a) Identify five challenges Kenyans encountered in search of a new constitution. **(5mks)**

b) Discuss five importance of human rights in the society. **(10mks)**

23. a) State five factors that can promote free and fair elections in Kenya. **(5mks)**

b) Describe five functions of the senate in Kenya. **(10mks)**

24. a) Give three roles of the County Executive Committee Members. **(3mks)**

b) Explain six ways in which independence of Judiciary is exercised in Kenya. **(12mks)**

KCSE 2026 TOPGRADE PREDICTION

(BLUEPRINT REPLICA OF KCSE 2026 EXAMINATION)

HISTORY AND GOVERNMENT

311/2

PAPER 2

TIME: 2½ HOURS

NAME.....

SCHOOL..... SIGN.....

INDEX NO..... ADM NO.....

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

- (a) Write your **name**, **index number** and the **name** of your school in the spaces provided above.*
- (b) **Sign** and **write** the **date** of examination in the spaces provided above.*
- (c) This paper consists of **THREE** sections A, B and C*
- (d) Answer all questions in section A, choose three questions in section B and two questions in section C*
- (e) Answers to all questions must be written in the answer booklet provided*

FOR EXAMINER USE ONLY

<u>SECTION</u>	<u>SECTION B</u>				<u>SECTION C</u>			<u>GRAND</u>
<u>A</u>								<u>TOTAL</u>
1-17	18	19	20	21	22	23	24	

SECTION A (25MKS)

Answer all questions in this section

1. Give one period in history (1mk)
2. State two characteristics of microlithic tools used during the late stone age period (2mks)
3. State one main way in which agrarian revolution contributed to the development of urban centers in Europe (1mk)
4. State the main reason why trans Saharan trade was referred to as the silent trade (1mk)
5. Give one limitation of using motorcycle as a means of transport (1mk)
6. Give two disadvantages of using a messenger to pass on information (2mks)
7. Give two inventions that revolutionized the textile industry in Britain during the 18th century (2MKS)
8. Identify the main factor for the rise of Johannesburg as an urban centre (1mk)
9. Give two symbols of unity among the Shona during the pre colonial period (2mks)
10. Give one country in North Africa that was colonized by France (1mk)
11. State two types of nationalisms in south Africa (2mks)
12. State two ways in which the rise of dictators in Europe contributed to the outbreak of the second world war (2mks)
13. Give two conditions that a country should fulfill in order to become a member of Non Aligned Movement (NAM) (2MKS)
14. Name the principal judicial organ of the United Nations Organization (1mk)
15. Name one financial institution established by the African Union (1mk)
16. Give two principles of the Arusha Declaration of 1967 (2mks)
17. Name the first black president of the United States of America (1mk)

SECTION B(45MARKS)

18. a) Name five forms of governments (5mks)
b) Explain five limitations of oral traditions as a source of information on History and Government (10MKS)
19. a) Give three advantages of using electricity in industries during the industrial revolution (3mks)
b) Explain six effects of ironworking technology on African communities before the 19th century (12mks)

- 20. a) Give** three reasons why Africans in Tanganyika were against the use of Akidas by the Germans (3mks)
- b) Explain six results of the collaboration between Lewanika of the Lozi and the British in the 19th century (12mks)
- 21. a) State** three political reforms introduced by president Frederick De Klerk that led to the achievement of black majority rule in South Africa (3mks)
- b) Explain six challenges faced by African nationalists in the struggle for majority rule in South Africa. (12mks)

SECTION C(30MARKS)

- 22. a) Give** three reasons why USA was reluctant to join the first world war (3mks)
- b) Explain six reasons why the league of nations failed to maintain world peace (12mks)
- 23a) Give** three characteristics of commonwealth member states (3mks)
- b) Explain the challenges facing the commonwealth of nations (12mks)
- 24 a) Give** three ways in which one becomes a member of the house of lords in Britain (3mks)
- b) Explain six functions of the queen of Britain (12mks)

KCSE 2026 TOPGRADE PREDICTION

(BLUEPRINT REPLICA OF KCSE 2026 EXAMINATION)

GEOGRAPHY

312/1

PAPER 1

TIME: 2¾ HOURS

NAME.....

SCHOOL..... SIGN.....

INDEX NO..... ADM NO.....

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO THE CANDIDATES

- a) Write your name and admission number in the spaces provided**
- b) Answer All questions in section A**
- c) In section B answer question 6 and any other two questions**
- d) Students should check the question paper and ensure that all pages are printed and that no question s are missing.**

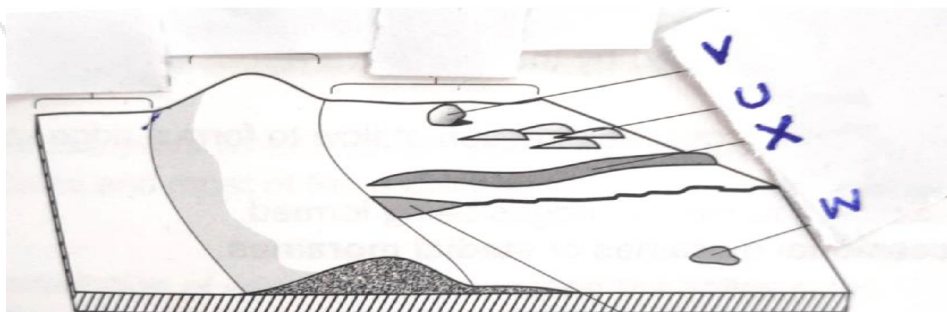
For Examiner's Use Only

Section	Questions	Candidate's Score	Maximum Score
A	1-5		25
B	6		25
			25
			25
	Total Score		100

SECTION A

ANSWER ALL QUESTIONS

- 1(a) Identify **two** divisions of Physical Geography (2mks)
(b) State **three** reasons why it is important to study geography. (3mks)
- 2(a) What is a line of longitude? (2 mks)
(b) What is the local time of Alexandria 30°E when the local time at Malindi 40°E is 12.00 noon? (3 mks)
- 3a) What is an earthquake? (2mks)
b) State **three** effects of earthquakes in build up areas (3mks)
- 4a) What is a karst scenery? (2mks)
b) State **three** factors influencing the occurrence of ground water (3mks)
- 5a) The diagram below shows the lowland glaciated features. Study the diagram and answer the questions (a) and (b)



- a) What is an outwash plain? (2mks)
b) Name the features marked U, V and W (3mks)

SECTION B

Answer question 6 and any other two questions from this section

6. Study the map of **Tambach (1:50,000 sheet 90/3)** provided and use it to answer the following questions.
- (a)(i) What is the longitudinal extend of the area covered by the map. (2 mks)
(ii) Convert the ratio scale of the map into statement scale (1mk)
(iii) What is the magnetic declination of the map as at 1980? (2 mks)
- (b) (i) Citing evidence from the map, give two social functions of Iten town (2mks)
(ii) Describe the characteristics of the long profile of River Kerio. (5mks)
- (c) Citing evidence from the map, explain three factors favouring trading in the area covered by the map. (6mks)

(d) i) Using a vertical scale of 1 cm rep 100m, draw a cross section from grid reference 830730 to 910730. On it mark and label (5 mks)

- Dry weather road
- Escarpment
- River Kerio

ii) Give the intervisibility of the points drawn (2mks)

7.a) (i) Distinguish between minerals and rocks. (2 marks)

(ii) State **three** characteristics of minerals. (3 marks)

(iii) Name **three** types of minerals. (3 marks)

(b) (i) Describe how intrusive igneous rocks are formed (5 marks)

(ii) State **three** characteristics of intrusive igneous rocks. (3 marks)

(c) (i) What is rock metamorphism? (2 marks)

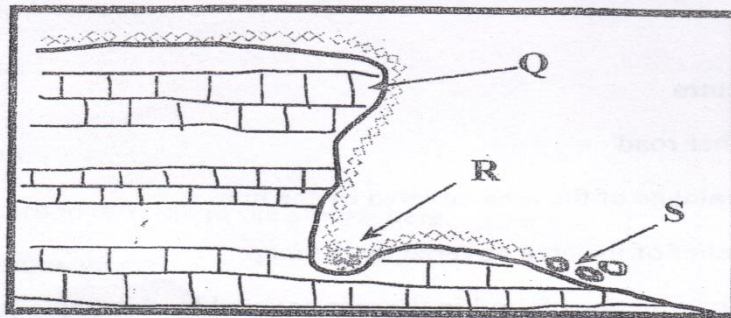
(ii) State **three** factors that influence rock metamorphism. (3 marks)

(d) Explain **two** economic benefits of coral limestone rocks. (4 marks)

8. a) i) Differentiate between a watershed and a confluence. (2mks)

ii) Describe **two** processes through which a river erodes its channel. (4mks)

b) The diagram below shows a water fall. Use it to answer question b (i)



i. Name the parts marked Q, R and S. (3mks)

ii. Explain **two** causes of river rejuvenation. (4mk)

iii) Name **two** features resulting from river rejuvenation. (2mks)

c) Using well-labeled diagrams, describe how an ox-bow lake is formed. (6mks)

d) Your Geography class intends to carry out a field study on an ox-bow lake a long river Tana.

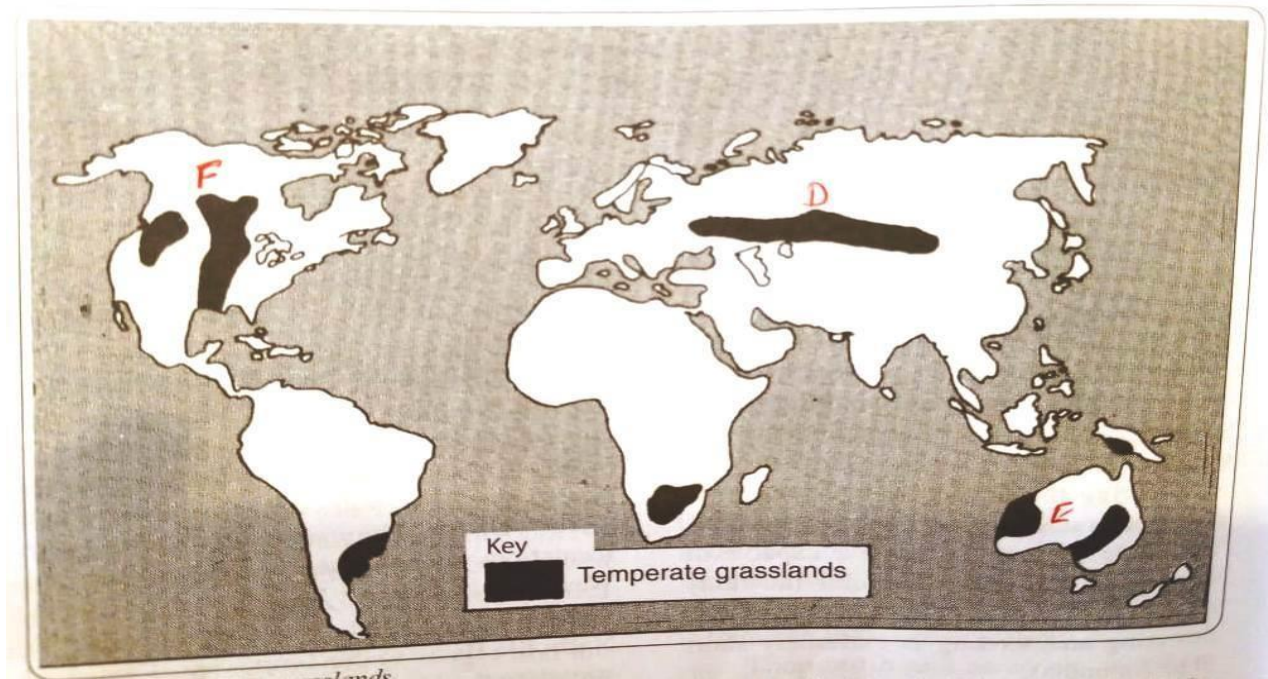
ii) Give **two** reasons for dividing the class into groups. (2mks)

ii) Give **two** reasons for preparing a work schedule. (2mks)

9a) What is secondary **vegetation**

(2mks)

c) The map below shows vegetation regions in the world. Use it to answer questions (i) and (ii)



i) Name the temperate grasslands labelled D, E, F

(3mks)

ii) State **four** characteristics of temperate grasslands

(4mks)

ci) Explain **three** physiographic factors that influence distribution of vegetation in Kenya (6mks)

ii) Give **four** factors that limit the exploitation of tropical rainforests in Africa

(4mks)

d) Give **three** adaptations of desert vegetation to the desert climate

(6mks)

10ai) Differentiate between a sea and an ocean

(2mks)

ii) Give **three** ways in which the sea acquire its load

(3mks)

b) Using well labelled diagrams, explain how each of the following feature is formed

i) Spit

(4mks)

ii) Tombolo

(4mks)

c) Name two types of waves

(2mks)

d) Some students carried out a field study on coastal features found along the coast of Kenya

i) List **three** features as a result of coastal emergence they are likely to have studied

(3mks)

ii) Give **three** disadvantages of using direct observation as a method of data collection

(3mks)

iii) State **four** ways in which features resulting from coastal emergence are of significance to

Kenya

(4mks)

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KCSE 2026 TOPGRADE PREDICTION

(BLUEPRINT REPLICA OF KCSE 2026 EXAMINATION)

GEOGRAPHY

312/2

PAPER 2

TIME: 2¾ HOURS

NAME.....

SCHOOL..... SIGN.....

INDEX NO..... ADM NO.....

Kenya Certificate of Secondary Education.

INSTRUCTION TO CANDIDATES

1. Write your name and Index number in the spaces provided at the top of the page.
2. Answer **all** the questions in Section A. In section B answer question **six** and any other **two** questions from this section.
3. This paper consists of four printed pages.
4. Candidates should answer the questions in English

SECTION A

Question Number	1	2	3	4	5
Marks					

Sub- Total

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SECTION B

Question Number	6	7	8	9	10
Marks					

Sub- Total

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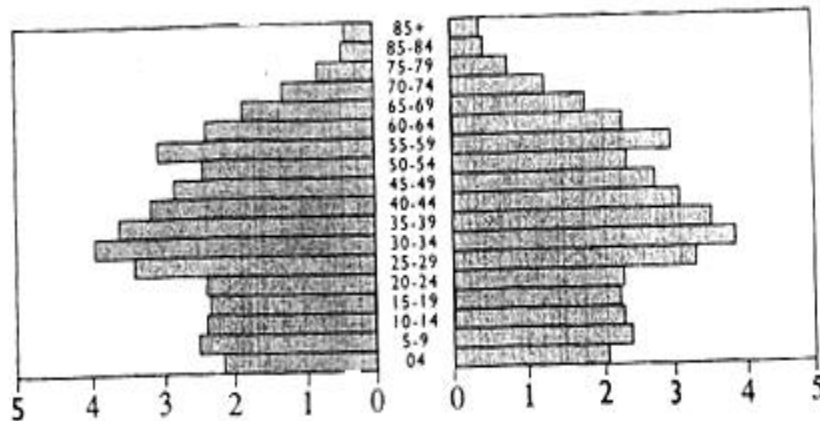
GRAND TOTAL

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SECTION A (25 MARKS)

Answer all the questions in this section

1. a) Give **two** main Branches of Geography. (2 marks)
- b) State **three** ways in which Geography is related to agriculture. (3 marks)
2. a) Identify **two** counties to the West of Rift valley where tea is grown in large scale. (2 marks)
- b) State **three** physical factors that favour tea farming in Kenya. (3 marks)
3. a) Identify **two** traditional methods of fishing used by fishermen in Western Kenya. (2 marks)
- b) State **three** factors that have favoured fishing in the South West Africa fishing ground. (3 marks)
4. Study the population pyramid below to answer the following questions.



Population (in millions)

- (a)(i) Identify **one** country that is represented by the pyramid above (1mk)
 - (ii) Give **three** characteristics of the population represented by the pyramid (3mks)
 - (iii) Give **two** disadvantages of population structure represented by the pyramid. (2mks)
- 5.a) Apart from wood name **two** other sources of renewable energy. (2 marks)
 - b) Give **three** disadvantages of using wood fuel as a source of energy. (3 marks)

SECTION B (75 MARKS)

Answer question six and any other two questions from this section.

6. a) The table below shows milk production by some counties in Kenya in 000' litres between years 2023 and 2024. Use it to answer the following questions.

COUNTY	PRODUCTION IN '000 LITRES
ELGEYO-MARAKWET	50
NAKURU	100
LAIKIPIA	200
UASIN GISHU	250
KIAMBU	400

- (a)(i) Using the data above, draw a divided rectangle measuring 15cm length (7 marks)
- (ii) Calculate the difference in milk production between Uasin Gishu and Nakuru counties. (2 mark)
- (iii) List two advantages of representing data using a divided rectangle. (2 marks)
- b) i) State **four** factors which favour beef farming in the Rift Valley (4 marks)
- ii) Identify **two** traditional breeds of cattle kept by nomadic pastoralists in Kenya. (2 marks)
- c) Explain **four** measures which the Kenya government has taken to assist nomadic pastoralists. (8 marks)
7. a) i) Define the term mining. (2 marks)
- ii) State **three** ways in which minerals occur. (3 marks)
- b) Describe open cast as a method of mining. (5 marks)
- c) Explain **three** ways in which mining leads to development of industries. (6 marks)
- d) You are to carry out a field study on effects of land dereliction around your school.
- i) Give **three** reasons why you would require a route map of the area of the study. (3 marks)
- ii) For your study, you have prepared a working schedule. State three items you would include in the schedule. (3 marks)
- iii) Identify **three** benefits that your visit to the area would have to the community. (3 marks)
8. a) i) Differentiate between forestry and forest. (2 marks)
- ii) Name **three** natural forest reserves found in the western region of Kenya. (3 marks)
- iii) State **three** characteristics of coniferous forests that favour their exploitation. (3 marks)
- b) Explain **three** factors that favour growth of forest in Canada. (6 marks)
- (c) Explain the difference between soft wood forest in Kenya and Canada under the following sub heading
- Condition for growth rate (2 marks)
 - Tree species (2 marks)
 - Processing of forest products (2 marks)
 - Marketing of forest products (2 marks)
- (d) Identify **three** non-wood products derived from Kenyan forests. (3 marks)

9. a) Mention **three** methods which have been used to reclaim land in Kenya. (3 marks)
- b) Explain **three** physical factors that influenced the location of Perkerra Irrigation scheme. (6 marks)
- c) Describe the stages involved in reclaiming land from the Sea in Netherlands. (8 marks)
- d) i) Explain **three** benefits the Dutch got from the Zuider Zee project. (6 marks)
- ii) Give **two** ways that have been used to control pest in Kenya. (2 marks)
10. a) i) Define the term wild life. (2 marks)
- (ii) Distinguish between a Game Reserve and a National park. (2 marks)
- (iii) Give **four** reasons why most National parks and game reserves are located in arid and semi-arid areas in Kenya. (4 marks)
- b) i) Explain **three** problems associated with wildlife in Kenya. (6 marks)
- (ii) Name three game parks in Uganda. (3 marks)
- (c) Explain the measures being taken to manage Wildlife in East Africa. (8 marks)

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KCSE 2026 TOPGRADE PREDICTION

(BLUEPRINT REPLICA OF KCSE 2026 EXAMINATION)

MATHEMATICS

121/1

PAPER 1

TIME: 2½ HOURS

NAME.....

SCHOOL..... SIGN.....

INDEX NO..... ADM NO.....

Kenya Certificate of Secondary Education.

INSTRUCTION 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) The paper consists of **two** sections. **Section I** and **Section II**.
- d) Answer **ALL** the questions in Section I and any **FIVE** questions in Section II.
- e) **Show all the steps in your calculations, giving your answer 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

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)

Attempt All Questions in this section

1. Find the value of y given that

(3 marks)

$$\frac{-2(5+3)-9 \div 3+5}{-3 \times -5y+2y \times 4} = 1$$

2. The length of a minute hand of a clock is 3.5cm. What will be the time if from 10.15am it sweeps through an area of 19.25cm^2 ?

(4marks)

3. Use reciprocal, square and square root table to evaluate to 4 significant figures, the expression

$$\sqrt{\frac{1}{24.56} + 4.346^2}$$

(3marks)

4. Given that $\sin(90-x)^\circ = 0.8$, where x is an acute angle, find without using mathematical table the value of $2 \tan x + \cos(90-x)$ **(3marks)**

5. Find the equation of the tangent and the normal to the curve $y = 2x^3 - 3x^2 + 6$ at the point (2,10) **(4marks)**

6. Simplify $\frac{2y^2 + 3xy - 2x^2}{x^2 - 4y^2}$

(3marks)

7. Find greatest integral value of x which satisfies

$$\frac{2x+3}{2} < \frac{8-3x}{5} < \frac{5x+6}{3}$$

(3marks)

8. One of the roots of the equation $x^2 + (k+1)x + 28 = 0$ is 4. Find the values of k and hence the second root

(4marks)

9. Solve for x in the following without using a calculator or mathematical table.

$$9^x (27^{(x-1)}) = \tan 30^\circ$$

(3marks)

10. A shear parallel to the x -axis maps point $(1, 2)$ onto a point $(5, 2)$. Determine the shear factors and hence state the shear matrix (invariant line is $y=0$) **(3marks)**

11. A solid is in the shape of a right pyramid on a square base on side 8cm and height 15cm. A frustum whose volume is a third of the pyramid is cut off. Determine the height of the frustum. **(3 marks)**

12. The interior angle of a regular polygon is 20° more than three times the exterior angle.

Determine the number of sides of the polygon

(2marks)

13. Three fifths of work is done on the first day. On the second day $\frac{3}{4}$ of the remainder is completed. If the third day $\frac{7}{8}$ of what remained is done, what fraction of work still remain to be done.

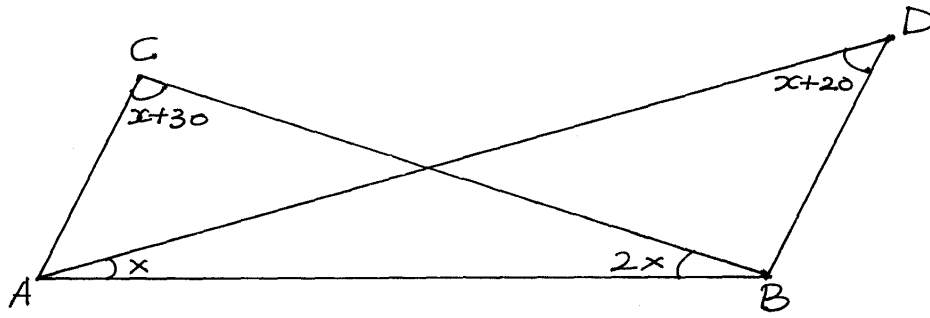
(3marks)

14. A two-digit number is such that the sum of the digits is ten. If the digits are reversed, the new number formed is less than the original number by 18. Find the number

(3marks)

15. In the figure below, $\angle CBD = 2\angle CAD$. Find the value of x

(3marks)



16. Two boys, Ababu and Chungwa, on the same side of a tall building are 100m apart. The building and the two boys are in a straight line and the angles of elevation from the boys to the top of the building are 30° and 20° respectively calculate the height of the building. (3marks)

SECTION II (50 MARKS)

Attempt only five Questions from this section

17. A business lady bought 100 quails and 80 rabbits for sh25600. If she had bought twice as many rabbits as half as many quails she would have paid sh7400 less. She sold each quail at a profit of 10% and each rabbit at a profit of 20%.

a) Form two equations to show how much she bought the quails and the rabbits. **(2marks)**

b) Using matrix method, find the cost of each animal. **(5marks)**

c) Calculate the total percentage profit she made from sale of the 100 quails and 80 rabbits. **(3marks)**

18. A(3,7) B(5,5), C(3,1), D(1,5) are vertices of a quadrilateral

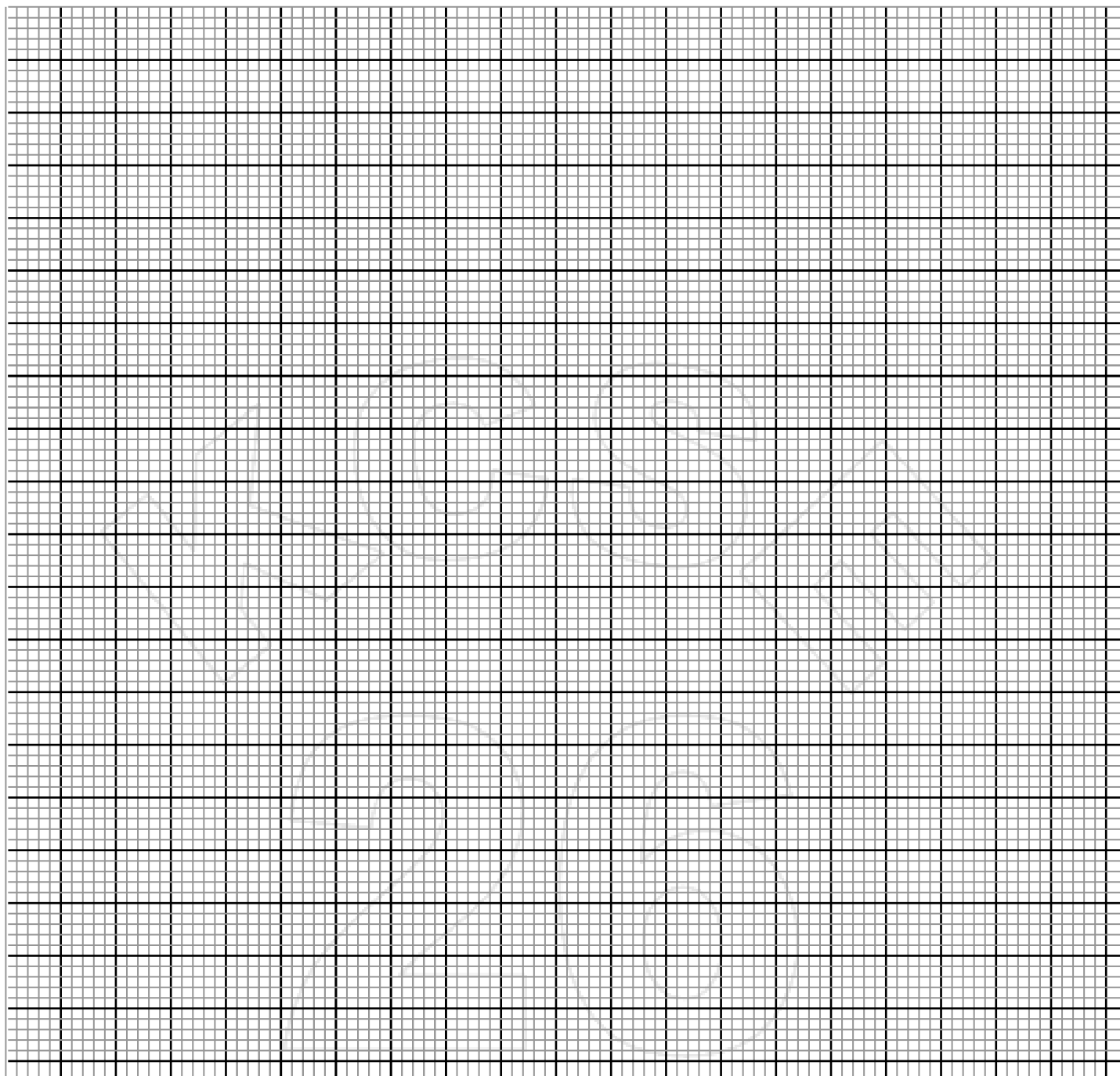
a) On the grid provided below, plot ABCD on a Cartesian plan **(2marks)**

b) $A^1B^1C^1D^1$ is the image of ABCD under a translation $T \begin{pmatrix} -6 \\ -9 \end{pmatrix}$ plot $A^1B^1C^1D^1$ and state its

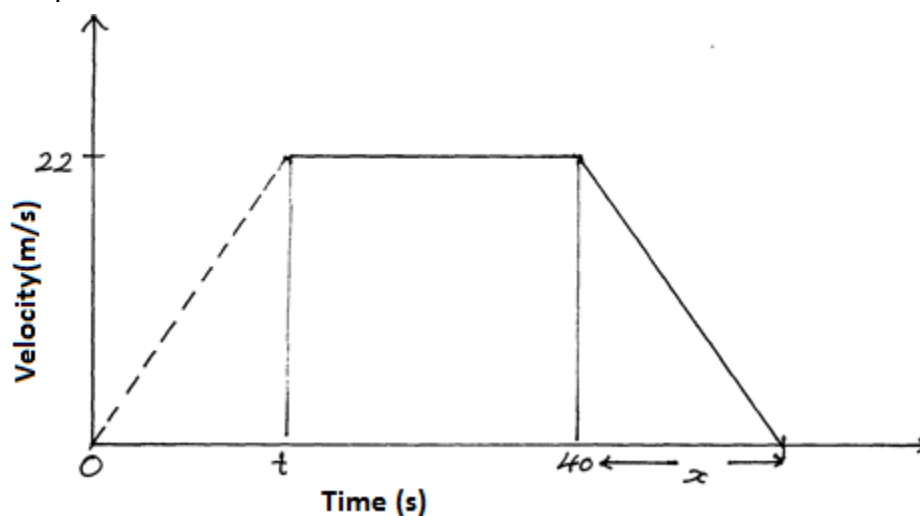
coordinates **(2marks)**

c) Plot $A^{11}B^{11}C^{11}D^{11}$ the image of $A^1B^1C^1D^1$ after a rotation about (-1,0) through a positive quarter turn. State its coordinates. **(3marks)**

d) $A^{111}B^{111}C^{111}D^{111}$ is the image of $A^{11}B^{11}C^{11}D^{11}$ after a reflection in the line $y=x+2$. Plot $A^{111}B^{111}C^{111}D^{111}$ and state its coordinates **(3marks)**

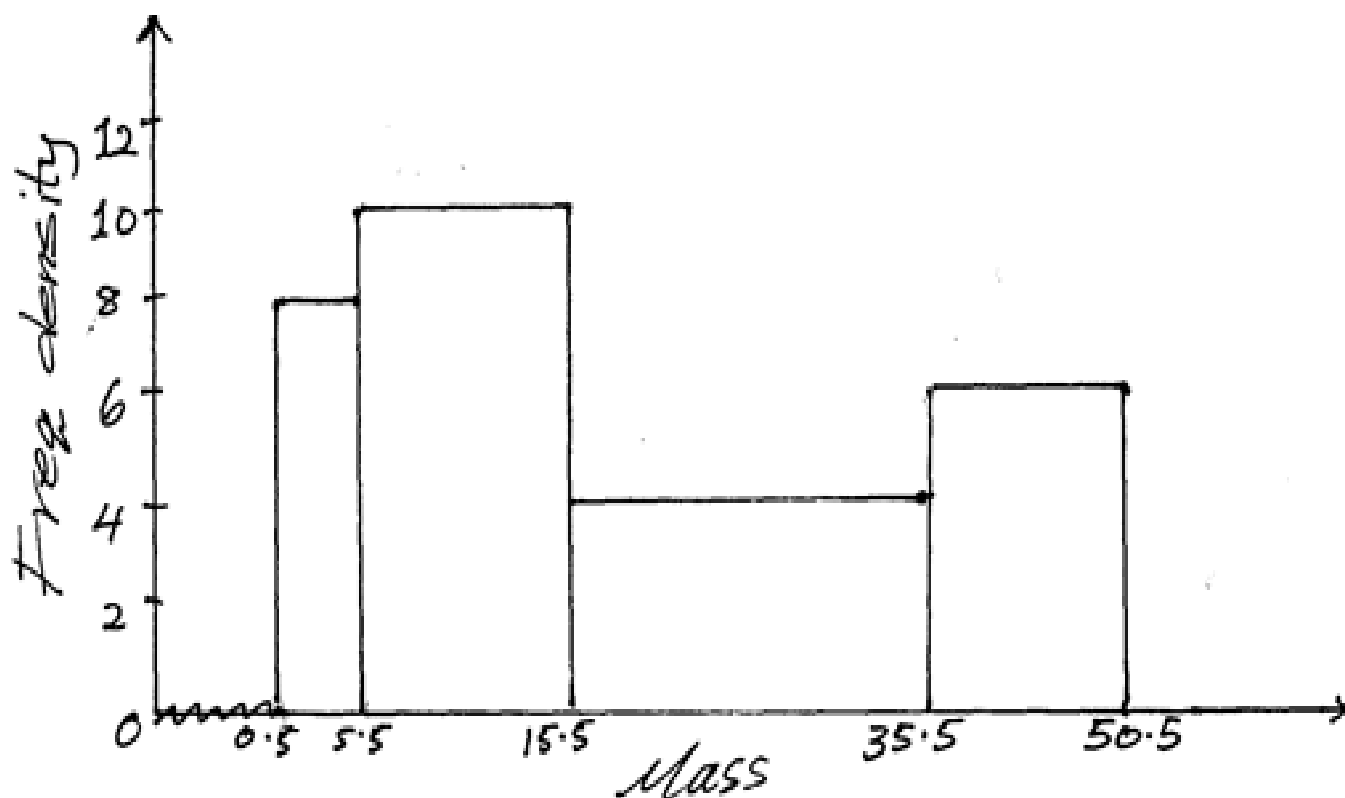


19. The figure below shows a velocity time graph of a journey of a car. The car starts from rest and accelerates at $2\frac{3}{4} \text{ m/s}^2$ for t seconds until it is 22 m/s



- Brakes are applied bringing it uniformly to rest. The total journey is 847 m long. Find.
- a) The value of t , the acceleration time (2marks)
- b) The distance travelled during the first t seconds. (2marks)
- c) The value of x , the deceleration time (4marks)
- d) The rate of deceleration (2marks)

20. The diagram below shows a histogram representing the mass of some pupils in a school.



a) Prepare a frequency distribution table of the data

(3marks)

b) From the table above, estimate

i) The mean mass of the pupils to 3 s.f

(3marks)

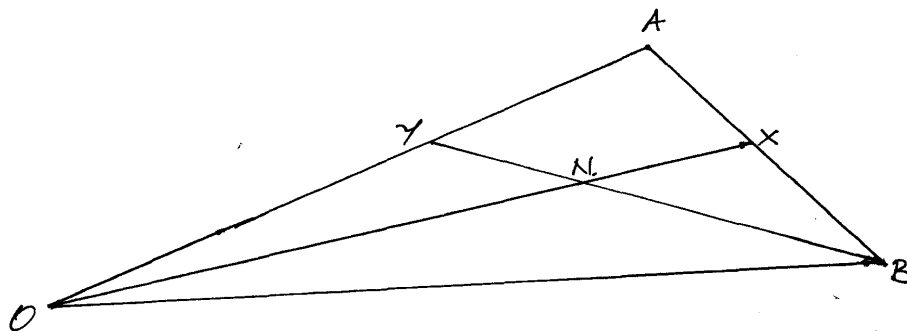
ii) The median mass

(3marks)

iii) How many pupils were 40kg and above

(1marks)

21. In the figure below $\mathbf{OY:YA=1:3}$ $\mathbf{AX:XB=1:2}$ $\mathbf{OA}=\vec{a}$ and $\mathbf{OB}=\vec{b}$. N is the point of intersection of $\mathbf{BY}$ and $\mathbf{OX}$



a) Determine

i) $\mathbf{OX}$

(2marks)

ii) $\mathbf{BY}$

(1mark)

b) Give that $\vec{BN} = k\vec{BY}$ and $\mathbf{ON} = h\mathbf{OX}$, express $\vec{ON}$ in two ways in terms of $\vec{a}$, $\vec{b}$, h and k (3marks)

c) Find the value of h and k and hence show that O, N and X are collinear

(4marks)

22. Using a ruler and a pair of compass only, construct triangle XYZ where XY is 6cm and $\angle XYZ$ is 135° and YZ=7cm **(2marks)**

- a) Measure XZ **(1mark)**
- b) Drop a perpendicular from Z to meet line XY at K , measure ZK. **(2marks)**
- c) Bisect line XY and let the bisector meet line XZ at Q **(1mark)**
- d) Join Q to Y and measure angle XQY **(2marks)**
- e) Find the area of triangle XYZ **(2marks)**

23. Four towns are situated in such a way that town Q is 500km on a bearing of 120° from P. Town R is 240 km on a bearing of 210° from town P, while town S is due north of town Q and due east of town P

- a) Draw a sketch diagram showing the relative position of P, Q, R and S (scale: 1cm : 100km)
(3marks)

b) Find by calculation

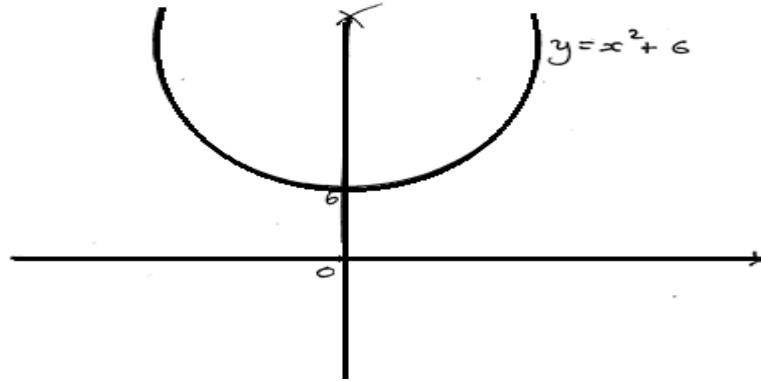
- i) The distance QR (1mark)

- ii) The distance QS (2marks)

- iii) The angle PRSQ (2marks)

- iv) The area of triangle PQS (2marks)

24.The figure below shows a sketch of the graph of $y = x^2 + 6$.



a) Estimate the area bounded by the curve, the x -axis and the line $x = -4$ and $x = 4$ using

i) The trapezium rule with 8 sides

(3marks)

ii) The mid- ordinates rule with and strips

(3marks)

b) What percentage error is caused by estimating the area of the curve using the mid ordinates rule as in a (ii) above

(4marks)

KCSE 2026 TOPGRADE PREDICTION

(BLUEPRINT REPLICA OF KCSE 2026 EXAMINATION)

MATHEMATICS

121/2

PAPER 2

TIME: 2½ HOURS

NAME.....

SCHOOL..... SIGN.....

INDEX NO..... ADM NO.....

Kenya Certificate of Secondary Education.

INSTRUCTION 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) The paper consists of **two** sections. **Section I** and **Section II**.
- d) Answer **ALL** the questions in Section I and any **FIVE** questions in Section II.
- e) Show all the steps in your calculations, giving your answer 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.
- h) Candidates should answer the questions in English.

FOR EXAMINER'S USE

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

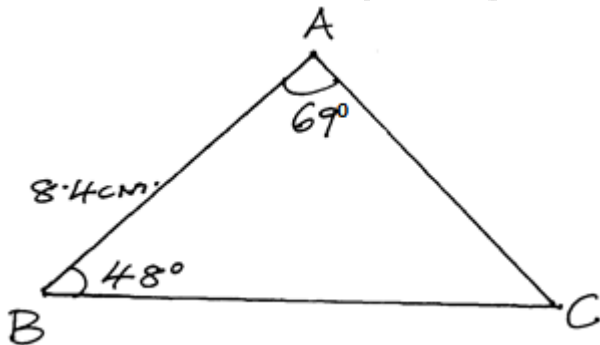
SECTION A (50MARKS)

Answer All Questions in this section

1. The area of a rectangle is 48.4cm^2 and its length is 9.37cm . Calculate the percentage error in width (3marks)

2. The base of a triangle is $(3x - 2)\text{cm}$. The height of the triangle is 5cm shorter than its base. Given that the area of the triangle is 25cm^2 . Find length of the base. (4marks)

3. Find the area of the triangle shown below (3marks)



4. Express the following expression in surd form and simplify by rationalising the denominator

$$\frac{2}{1 - \tan 30}$$

(3marks)

5. **Solve** for x in the expression $(\log_2 x)^2 + \log_2 x^3 = 10$

(3marks)

6. The table below is part of the tax for monthly income for the year 2007

Monthly income (ksh)	Rate %
Under ksh 10165	10
From 10165 but under ksh19741	15
From 19741 but under ksh29317	20

In that year, John's monthly gross tax was Ksh 2885. Calculate his monthly income **(3marks)**

7. A quantity E is partly constant and partly varies as square root of F.

i) Write down an equation connecting E and F where K and C are constants respectively.

ii) If $F=25$ where $E=22$ and $F=49$ when $E=28$. Find the value of K and C **(3marks)**

8.a) Expand $\left(1 + \frac{1}{2}x\right)^7$ in ascending power of x **(1mark)**

b) Using the first four terms of the expansion in (a) above estimate the value of $\left(1\frac{1}{30}\right)^7$ **(2marks)**

9. Find the number of terms of the series $5+8+11+14+17+\dots$ that will give a sum of 2183 **(3marks)**

- 10.** Find the inverse of the matrix $M = \begin{pmatrix} 4 & -3 \\ 2 & 1 \end{pmatrix}$ hence find the co-ordinates of the point at which line $4x - 3y = 4$ and $2x + y = 7$ intersect **(3marks)**

- 11.** A trader mixed grade I, II and III of coffee in the ratio 2:3:5 respectively. Grade I cost Sh650 per kg, grade II costs sh 500 per kg and grade III costs sh 420 per kg.

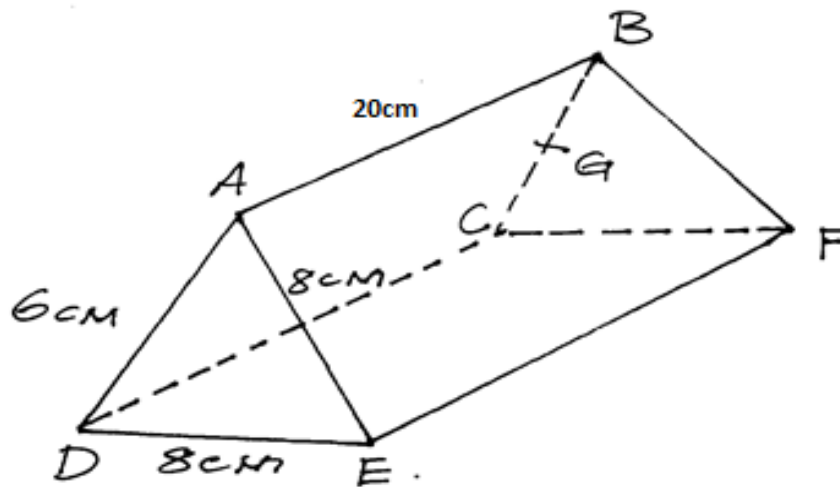
a) Find the cost of one kg of the mixture **(2marks)**

b) If the trader sold the mixture at a profit of 20% calculate the selling price of 3kg of the mixture **(2marks)**

12. Solve for the equation $4\cos^2 x = 5 - 4\sin x$ for $0^\circ \leq x \leq 360$

(3marks)

13. The figure below has a cross-section of the prism which is an isosceles triangle of side $AE = 8\text{cm}$, $DE = 8\text{cm}$ and $AD = 6\text{cm}$, where $AB = 20\text{cm}$



a) If G is the mid-point of side BC find

i) GF

(1mark)

ii) AG

(1mark)

b) The angle between line DF and plane ABCD

(2marks)

14.a) Construct triangle PQR in which $PQ=QR=5\text{cm}$ and angle $PQR=90^\circ$ **(2marks)**

b) Draw the locus of S which moves in such a way that it is always on the same side of PR as Q and angle $\hat{PSR} = 45^\circ$ **(1mark)**

15. Determine the amplitude and period in the function $y = \frac{1}{2}\sin(3x - 60)$ **(2marks)**

16. Two towns P and Q are located on the equator such that P is due east of Q. The distance between the two towns is 1920nm. If the latitude of p is 50°E . Determine the longitude of Q**(3marks)**

SECTION B (50 MARKS)

Answer any five questions from this section

17. The cost of Jane's car at the beginning of year 2000 was sh 750,000. It depreciated in value by 7% per year for the first 3 years, by 8% for the next two years and 11% per year for the subsequent years.

a) Find the value of the car at

i) The start of the year 2003

(2marks)

ii) The end of year 2007

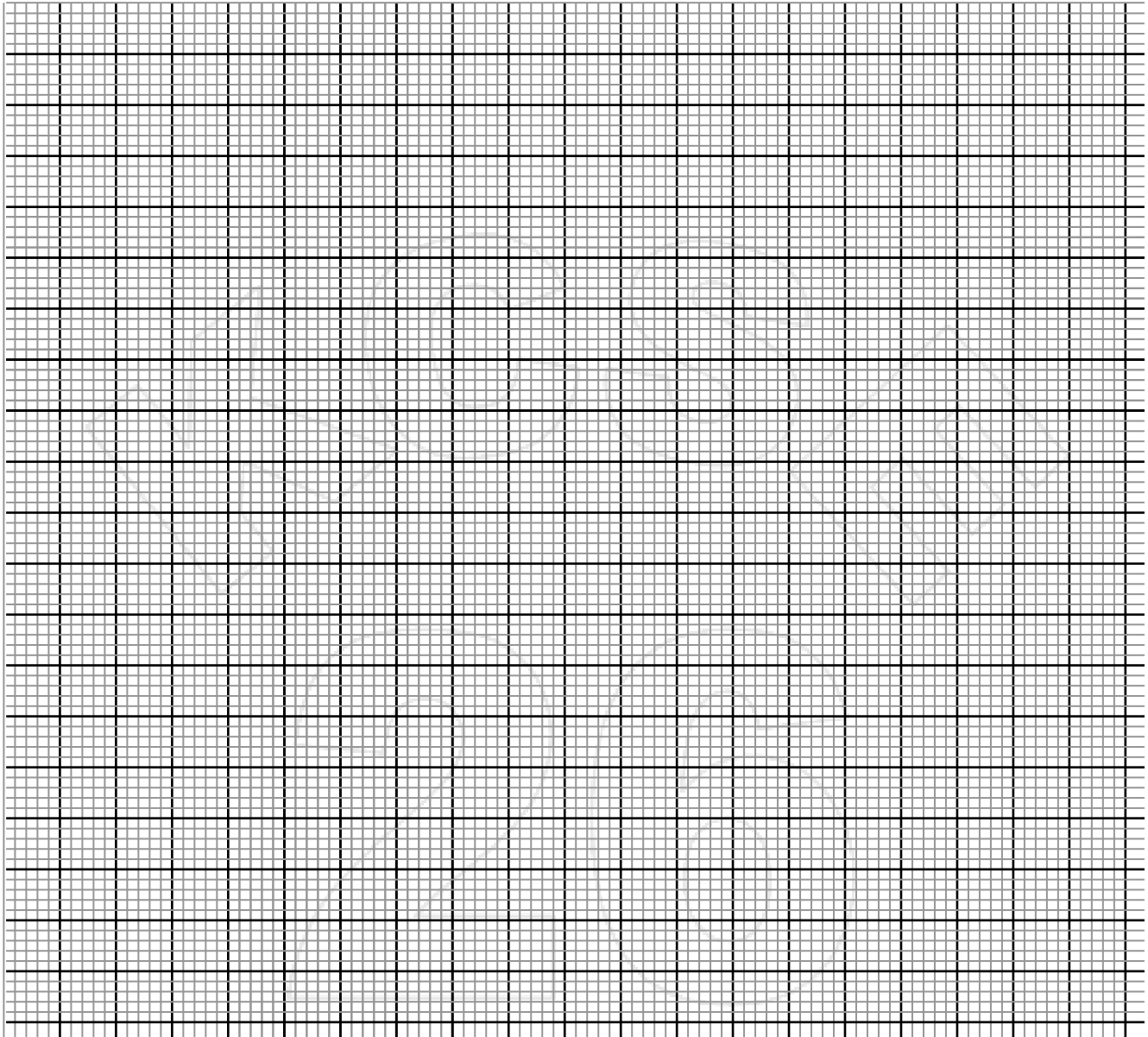
(3marks)

b) At the beginning of 2008, Jane sold the car through Mary's dealers at 22% more than its actual depreciated value to Lucy. Taking Mary's sale price as the car's value after depreciation. Find the average monthly rate of depreciation for the 8 years.

(5marks)

18. MNP is a triangle with vertices M,(2,2),N(2,-2) and P(-1,-4). Draw the triangle MNP. **(1mark)**

a) If vertex N(2,-2) is mapped to N^1 (5,-2) by a shear with x-axis invariant, draw triangle $M^1N^1P^1$, the image of triangle MNP under the shear. **(2marks)**



b) Find the matrix that represent the shear in (a) above

(2marks)

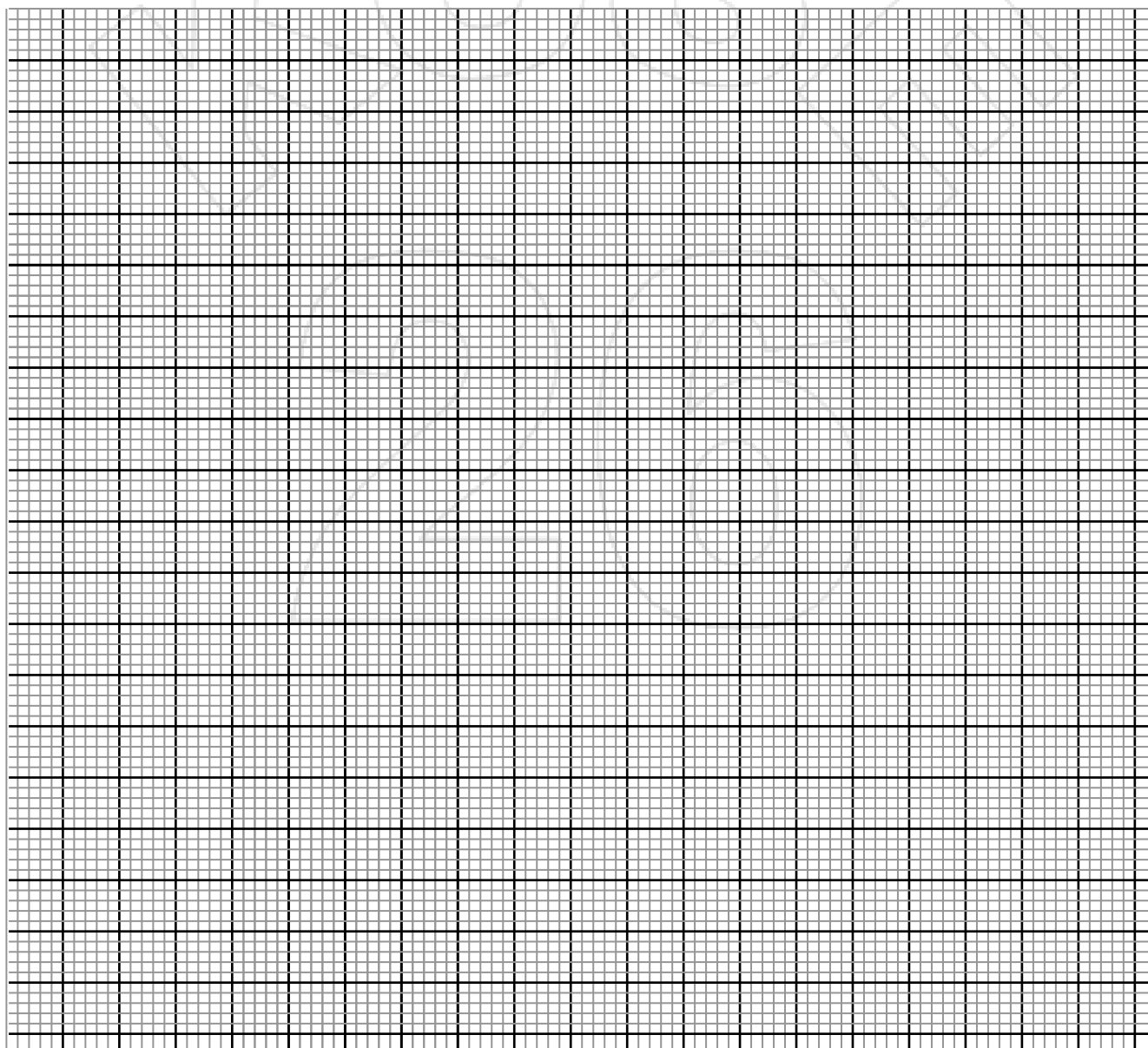
- c) A transformation where matrix is $T = \begin{pmatrix} 0 & 1 \\ 1 & 1.5 \end{pmatrix}$ maps triangle $M^1N^1P^1$ onto $M^{11}N^{11}P^{11}$. Draw the triangle $M^{11}N^{11}P^{11}$ (3marks)

- d) **Describe** fully a single transformation that maps triangle $M^{11}N^{11}P^{11}$ back onto triangle MNP and give its transformation matrix. (2marks)

19. Complete the table below for the equation $y = x^3 - 3x^2 - 5x + 7$ (2marks)

x	-3	-2	-1	0	1	2	3	4	5
y	-32		8	7	0		-8		32

- b) Draw the graph of $y = x^3 - 3x^2 - 5x + 7$ (3marks)



c) Use your graph to estimate the roots of the equation $x^3 - 3x^2 - 5x + 7 = 0$ **(2marks)**

d) Use your graph to solve the equation $x^3 - 3x^2 - 10x + 17 = 0$ **(3marks)**

20. The table below shows marks scored by 40 students in a test

Marks	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81-90
frequency	1	5	8	12	7	4	2	1

a) Calculate the upper quartile and lower quartile

(4marks)

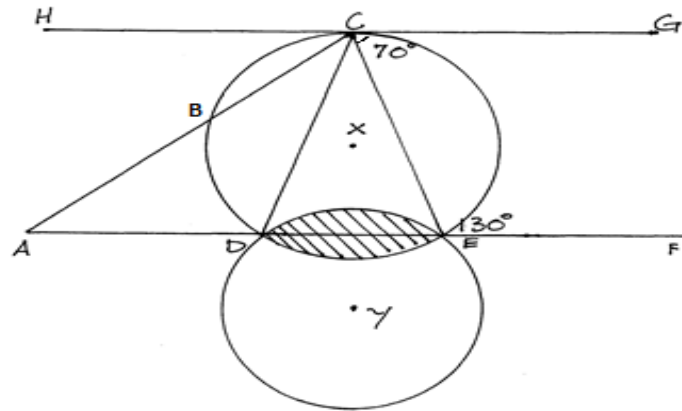
b) If 30% of students failed the test, find the pass mark

(3marks)

c) The pass mark was set at 25 marks. How many students passed the test.

(3marks)

- 21.) The diagram below shows two intersecting circles with centres X and Y. HG is a tangent to the circle centre X at C. Angle GCE = 70° and angle CEF = 130° . Given that CB = 5cm, BA = 4cm, AE = 12cm and radius DY = 6cm.



- a) Determine
i) Angle DXE (2marks)

- ii) Length DE (2marks)

- iii) Angle DYE (2marks)

- b) Calculate the area of the shaded region (take $\pi = \frac{22}{7}$) (4marks)

22.a) Wekesa has two fair tetrahedral solids one red and other green. The faces of red solid are numbered 1 to 4 while the faces of green solid are numbered 2,3,5 and 6. He tosses the two solids at the same time and recorded the number that is the bottom face of each solid. If **k** is the number that is at the bottom face of red solid while **t** is the number that is at the bottom face of green solid, find the probability that

i) $2k+t=7$ (1mark)

ii) $(2k+t)$ is at most 9 (1mark)

iii) $2k \geq t$ (2marks)

b) In a group of 40 people, 10 are healthy and every person of the remaining 30 has either high blood pressure, a high level of cholesterol or both. Given that 15 have high blood pressure, 25 have high level of cholesterol and x have both. If a person is selected at random from this group. What is the probability that he/ she

i) Has high pressure only (2marks)

ii) Has high level of cholesterol only

(1mark)

iii) Has high blood pressure and high level of cholesterol

(1mark)

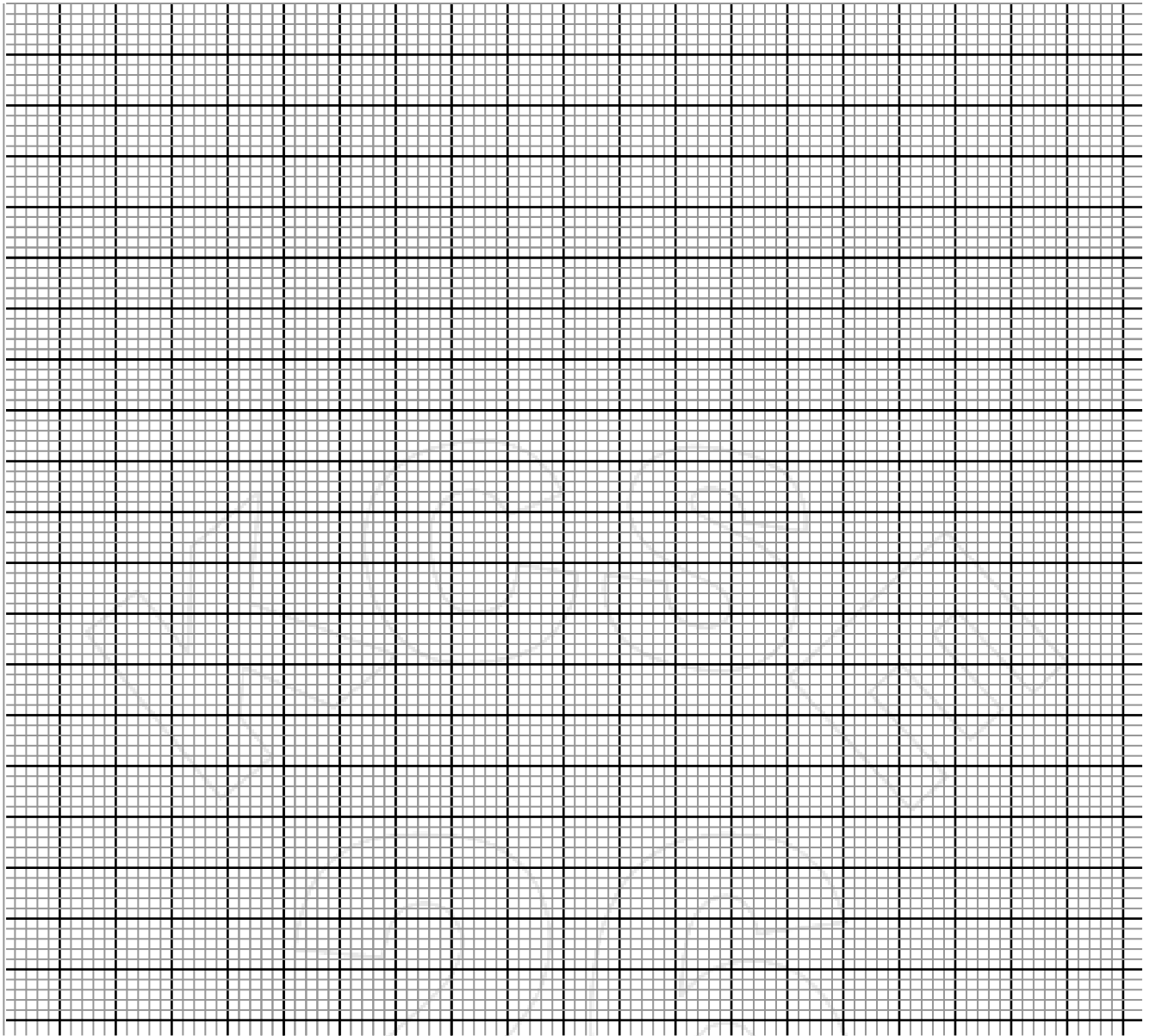
iv) Has either high blood pressure or high level of cholesterol

(2marks)

23. A company was contracted to transport 1200 tonnes of sand. The company used type A and type B trucks to do the job. Each type A truck carries 10 tonnes of sand per trip while B carries 15 tonnes per trip. The total number of trips must not be less than 70 and type B truck must make at least twice as many trips as type A truck while the latter must make not less than 10 trips. Taking x to represent the number of trips made by type A trucks and y to represent the number of trips made by type B trucks

a) Write down all the inequalities representing the above information **(4marks)**

b) Represent the inequality graphically **(4marks)**



- c) The company makes a profit of sh2000 per trip made by each type A truck and sh 3000 per trip made by each type B truck.
- i) Using a search line, determine the number of trips each type of truck must be made to maximise the profit **(1mark)**
- ii) Hence calculate the maximum profit **(1mark)**

24.a) Find the area of the region bounded by the curve $y = x^3 - x$ and the axes between the point $x = -1$ and $x = 1$ **(4 marks)**

b) At a certain instant a body is moving in a straight line at 20 cm/s. Its acceleration during the first 5 seconds of the subsequent motion is $(30 - 6t)$ cm/s² where t is the time in seconds. After 5 seconds it travels with a constant speed. Find

i) Its velocity after 2 seconds **(2 marks)**

ii) The greatest velocity attained **(2 marks)**

iii) The distance travelled in 10 seconds **(2 marks)**

THIS IS THE LAST PRINTED PAGE!

KCSE 2026 TOPGRADE PREDICTION

(BLUEPRINT REPLICA OF KCSE 2026 EXAMINATION)

COMPUTER STUDIES

451/1

PAPER 1

TIME: 2½ 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) This Paper consists of **two** sections **A** and **B**.
- (c) Answer **all** the questions in **section A**.
- (d) Answer **question 16** (compulsory) and any other **three** questions from section **B**.
- (e) **All** answers should be written in the spaces provided.
- (f) **Candidates should answer the questions in English.**

FOR EXAMINERS USE ONLY

SECTION	QUESTION	
A	1 – 15	
B	16	
	17	
	18	
	19	
	20	
TOTAL MARKS		

SECTION A (40 MARKS)

Attempt ALL questions from this section

1. What is meant by Data Communication Equipment (DCE)? (1 mark)

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.....

2. a) Name **three** types of graphics used in a word processor (3 marks)

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.....

b) Distinguish between subscript and section breaks (2 marks)

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3. Joan a secretary at Junior Secondary School carries out her daily duties using computers and suffers wrist strain. State three ways she would reduce wrist strain. (3 mark)

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4. State **three** disadvantages of entering data using touch sensitive screens in tablet computers. (3 marks)

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5. State **any two** techniques used by a network administrator to detect and prevent computer crimes. (2 marks)

.....

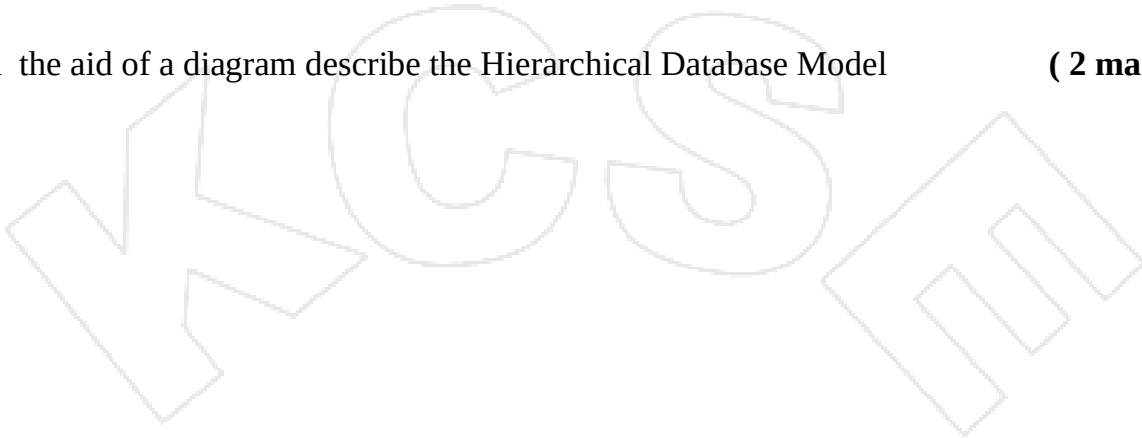
.....

6. State **two** transmission media used in wireless transmission (2 marks)

.....

.....

7. With the aid of a diagram describe the Hierarchical Database Model (2 marks)



8. List any **three** factors that should be considered when developing a database application (3 marks)

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9. Name any **two** types of validation checks during data entry (2 marks)

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10. Differentiate between hardware and software portability. (2 marks)

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11. State **three** ways in which computer virus infection can be prevented other than through restricting the usage of removable storage media. (3 marks)

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12. State **two** advantages of **real time** data processing mode. (2 marks)

.....

.....

13. a) State **two** roles of an information system (2 marks)

.....

.....

b) State the stages of system development life cycle in which each of the following activities that place. (3 Marks)

- i. Staff training.....
- ii. Error correction.....
- iii. Cost effectiveness

14. A company in town wishes to link its offices together; the linking may be through wireless or fibre optic network media. State **two** benefits that the company would gain from the use of metropolitan area network (MAN) (2 marks)

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.....

15. Mwalimu Cooperative has recently introduced magnetic ink character recognition for processing customer cheques. Give any three benefits they are likely to gain from its use. (3marks)

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SECTION B (60 MARKS)

Answer question 16 and any other THREE questions from this section B

16. Below is a pseudocode for a program that is meant to be used for calculating the sum and average of all even numbers between 50 and 100 and display results.

1. set sum = 0
2. for num = 0 to 100 do
3. num = num + 1
4. sum = num + sum
5. average = sum/count
6. end
7. print sum, average

- a. The pseudocode has four logical errors, identify and correct the errors. **(8 Marks)**
- b. Draw a flowchart for the corrected version of the pseudocode in (a) above. **(7 Marks)**

17. (a) Differentiate between a **select** query and **action query** as used in databases. **(2 marks)**

(b) Explain **four** elements of database **(4 marks)**

(c) Explain the use of each of the following field properties as used in databases **(3 marks)**

(i) Validation rule

(ii) Input mask

(iii) Indexed

(d) Kiprono has been experiencing a lot of problems in his computer while using it. As a result, he was advised to do the following in order to avoid the problems.

(i) Compress the disk files

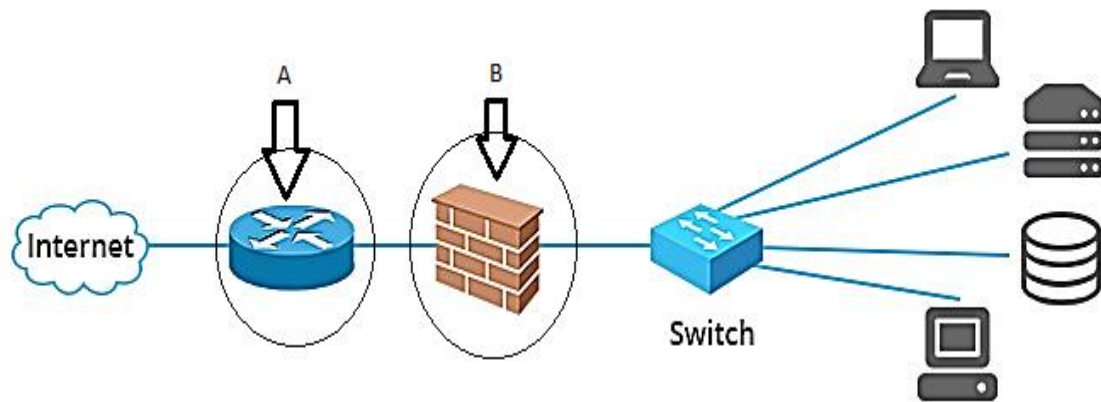
(ii) Defragment the disk.

Explain the difference between the two terms above **(2 marks)**

(e) Differentiate between Multi-user operating system and Multithreading operating system. **(2 marks)**

(f) State **two** roles of a programmer in system development life cycle **(2 marks)**

18(a) The diagram below shows a network arrangement that includes a network security feature to protect data and information. Use it to answer the questions that follow.



- (i) The networking device labeled **A** is used to connect computers to a WAN (Internet). Name the device used for this purpose. **(1 mark)**
- (ii) The part labeled **B** is a security feature used to protect data traffic in the network. Identify and explain the function of this part. **(2 marks)**
- (b) Define a network node. **(1 mark)**
- (c) State any **two** functions of a network operating system. **(2 marks)**
- (d) The internet has been embraced as a great resource for information and a variety of applications. State **two** ways in which a book publisher can make use of the internet. **(2 marks)**
- (e) Name and explain **two** types of twisted pair cable used in data transmission **(3 marks)**
- (f) With aid of a labeled diagram, describe ring network topology; stating **one** disadvantage of such network. **(4 marks)**

19(a) Convert each of the following numbers to decimal equivalent; given that the left most bit is a sign bit.

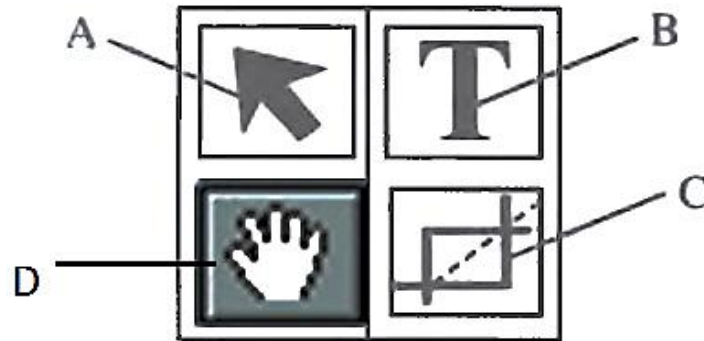
- (i) 0101011 **(2 marks)**
- (ii) 111110101 **(2 marks)**
- (b) Differentiate between **enhanced BCD** and **ASCII-8** coding scheme of representing data in computers. **(2 marks)**
- (c) Compute the following binary arithmetic expressions.
 - (i) $1010.101 + 11.011$ **(2 marks)**
 - (ii) $1010.101 - 11.011$ **(2 marks)**

(d) Convert 12.625_{10} to 6-bit binary notation. (2 marks)

(e) Using 8-bit two's complementation, perform the following binary operation. (3 marks)

$$111010_2 - 27_{10}$$

20 The figure below is a toolbar for a DTP package.



(a) Name and state the functions of the tools labeled A, B, C and D. (4 marks)

(b) Using relevant examples give **four** advantages of using desktop publishing software. (4 marks)

(c) State **four** advantages of automated production. (4 marks)

(d) Most industries use computers for process control. Give any **three** benefits of this. (3 marks)

This is the last page printed

KCSE 2026 TOPGRADE PREDICTION

(BLUEPRINT REPLICA OF KCSE 2026 EXAMINATION)

COMPUTER STUDIES

451/2

PAPER 2

TIME: 2½ HOURS

NAME.....

SCHOOL..... SIGN.....

INDEX NO..... ADM NO.....

Kenya Certificate of Secondary Education.

Instructions to Candidates

- (a) Indicate your name and index number at the top right corner of each printout.*
- (b) Write your name and index number on the storage medium provided*
- (c) Write the name and version of the software used for each question attempted in the answer sheet.*
- (d) Answer ALL questions*
- (e) All questions carry equal marks*
- (f) Passwords should not be used while saving in the storage medium provided.*
- (g) All answers must be saved in your storage medium provided*
- (h) Make a printout of the answers on the answer sheets provided.*
- (i) Arrange your printouts and staple them together.*
- (j) Hand in all the **printouts** and the **storage medium** used.*

QUESTION	TOTAL SCORE	CANDIDATE SCORE
1	50	
2	50	
TOTAL	100	

QUESTION 1

A Company in Mombasa sells computer spare parts to its customers. The Company wishes to work out the pay details for its employees.

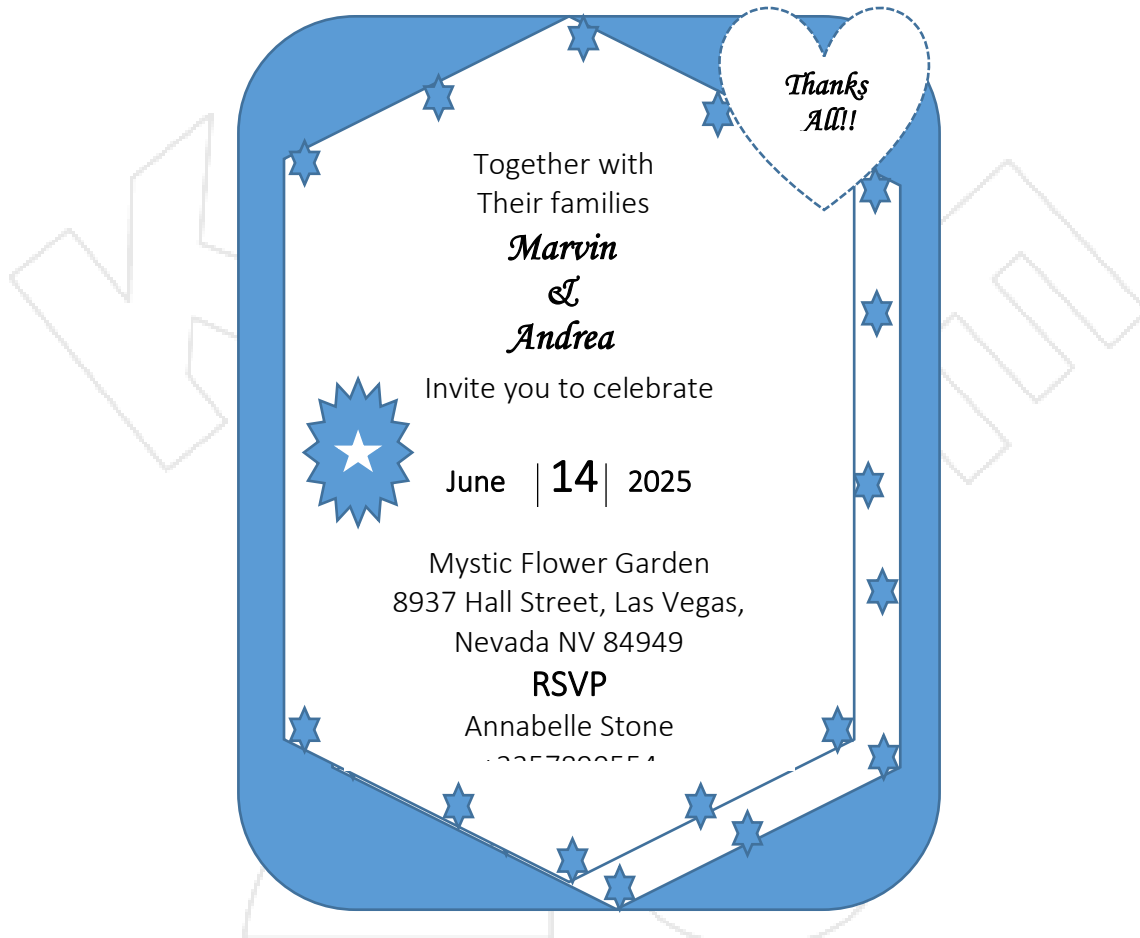
EMPLOYEE NAME	YEARS WORKED	BASIC PAY [KSHS]	DEPARTMENT	SALES [KSHS]	HOURS OF OVERTIME
RUKENYA KWENA	5	24,000	ADMIN	16,000	10
BILLY LUCAS	13	28,000	SALES	25,000	11
LILIAN OKOTH	7	17,000	MARKETING	22,000	12
EVANS ONDIEKI	11	18,000	SALES	12,000	15
GEOFFREY MUTUMA	15	26,000	ACCOUNTS	11,000	22
HUMPHREY LOKI	10	25,000	ADMIN	30,000	12
CEDRIC MUKUI	11	19,000	SALES	35,000	33
FREDRICK CHEGE	15	25,000	MARKETING	14,000	14
OSMAN HUSSEIN	14	23,000	ADMIN	25,000	0
JEREMY NYAMU	18	27,000	ACCOUNT	14,000	7

- (a) Using the information above, design a spreadsheet and enter the given data as it appears. Give it the title “COMPANY PAYMENTS”. Save the workbook file as **COMPANY1(14marks)**
- (b) (i) Copy the data into Sheet 2 and rename it as **COMPANY2** and use it to answer the questions that follow **(1 mark)**
- (ii) Calculate the total sales and total mileage giving them an appropriate label **(2marks)**
- (iii) Rotate the column headings to 45° **(2 marks)**
- (iv) The employee's sales commission is calculated as 12% of the employee's sales. Input this commission rate in cell C20 and label it appropriately. Bold the label and change its font to size 16 **(4marks)**
- (v) Insert a new column labeled 'Sales commission' between 'sales' and 'hours of overtime'. **(2marks)**
- (vi) Create a formulae to give the amount of sales commission for each employee by making references to sales commission cell. **(3marks)**
- (c) (i) Convert the basic pay and sales to two decimal places. **(2marks)**
- (ii) Use a function in a new column labeled REMARK to put the remark EXCELLENT' for only those employees whose sales is greater than 22,000, 'GOOD' those employees whose sales are between 15000 to 21999 otherwise the remark should be 'LOW SALES. **(6marks)**
- (iii) Apply both outline and inside double line border to the worksheet portion with data **(3marks)**
- (d) Overtime payment is done by multiplying 5% of sales with the hours worked. Use a formula to calculate the overtime pay for each of the employees in a new column labeled “OVERTIME PAY” **(2marks)**
- (e) Use a function to compute the Total payment of each employee. It should be summation of Basic pay, Sales Commission and Overtime pay. Give it the heading TOTAL PAYMENT. Save the changes. **(2marks)**

- (f) Use an appropriate subtotals function to show how much TOTAL PAYMENT the company gives to employees in each department **(4marks)**
- (g) Print **COMPANY1, COMPANY2** and **all the formulas used in company2.** (3marks)

2. i) Open a desktop publishing program and set the page layout in inches as follows. **(5marks)**

- a) Paper size : 2.6” width by 3.2” height
- b) Portrait: orientation
- c) Margins: 0.25” all round
- d) Layout type : multiple pages per sheet
- e) Target paper size; A4



ii) Designs the card as it appears ensuring that the card covers all the space in the page.

(42marks)

iii) Save the publication as Anniversary Card

(1mark)

iv) Print out 8 copies of the card on a single A4 page

(2marks)

KCSE 2026 TOPGRADE PREDICTION

(BLUEPRINT REPLICA OF KCSE 2026 EXAMINATION)

HOME SCIENCE

441/1

PAPER 1

TIME: 2½ HOURS

NAME.....

SCHOOL..... SIGN.....

INDEX NO..... ADM NO.....

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

- The paper consists of three sections
- Answer all questions in sections A and B, and any two question in section C.

FOR EXAMINERS USE ONLY

SECTION	QUESTION	MAX. SCORE	CANDIDATE SCORE
A	1 - 19	40	
B	20	20	
C	21-23	40	
TOTAL		100	

SECTION A (40 MKS)

1. Explain the role of sweat glands in soiling the body. (2mks)

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2. Mention two qualities that make machine fell seam suitable for making a night dress. (2mks)

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3. Give two characteristics of clothes made of fabric that develops static electricity. (2mks).

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4. Explain how living a relatively sedentary lifestyle can lead to obesity. (1mk)

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5. Give two reasons why low heeled shoes are recommended for a pregnant mother. (2mks)

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6. State four uses of fat in flour mixtures. (2mks)

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7. Identify linen using a burning test. (3mks)

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7. Name two methods of credit buying. (2mks)

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8. Differentiate between garnishing and decorating food. (2mks)

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9. Give four factors that affect the efficiency of a detergent. (2mks)

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10. Mention four preparations that are done on a fabric before laying out. (2mks)

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11. (a) State two possible causes of anaemia. (2mks)

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12. (i) Suggest two measures to take immediately nose bleeding occurs. (2mks)

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13. Give three reasons for a needle breaking during machining. (3mks)

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14. Mention two ways of improving maiz meal porridge. (2mks)

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15. Giving examples,differentiate between fixed and flexible expenses. (2mks)

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16. State two uses of facings in garment construction. (2mks)

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17. Mention three ways of identifying warp threads in the absence of a selvedge. (3mks)

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18. Distinguish between anorexia nervosa and bulimia. (2mks)

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SECTION B (20 MKS) Compulsory.

20. You are taking care of your uncle who is recovering from covid-19 infection;

- (a) Explain how to would clean the cemented floor of his bedroom. (8mks)
(b) Describe the procedure you will use to dry clean his neck tie. (6mks)
(c) Explain how you will wash and dry his woolen socks. (6mks)

SECTION C (40 MKS)

Answer any 2 questions

21.(a) Outline four ways of improvising abrasives at home. (4mks)

(b) Discuss three principles of food preservation. (6mks)

(c) Describe the functioning of each of the following;.

(i) Electric air fan.

(ii) Air conditioner. (4mks)

(d) Outline six principles of wise buying. (6mks)

22.(a) Discuss three basic instructions on use of medicine. (6mks)

(b) Explain three ways of providing variety in meal planning and management.

(c) Discuss any two processes that are harmful to woolen fibres and the harm they cause. (4mks)

(d) State and explain two types of play that promote child development. (4mks)

23.(a) State and explain four types of colour schemes used when furnishing the house. (8mks)

(b) Describe four methods of lighting a house. (8mks)

(d) Outline four points on use and care of a sewing machine. (4mks)

KCSE 2026 TOPGRADE PREDICTION

(BLUEPRINT REPLICA OF KCSE 2026 EXAMINATION)

HOME SCIENCE

441/2

PAPER 2

TIME: 2½ HOURS

SCHOOL..... SIGN.....

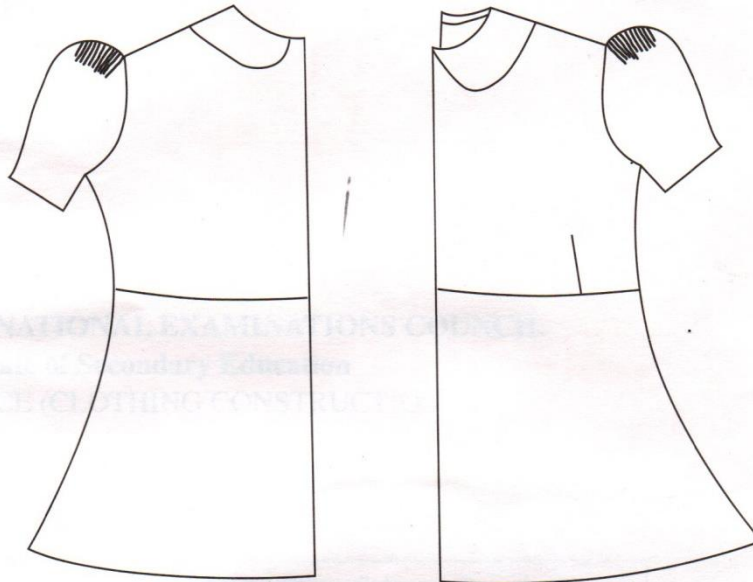
Kenya Certificate of Secondary Education.

CONFIDENTIAL

HOMESCIENCE 441/2 (PRACTICAL)

CLOTHING CONSTRUCTION

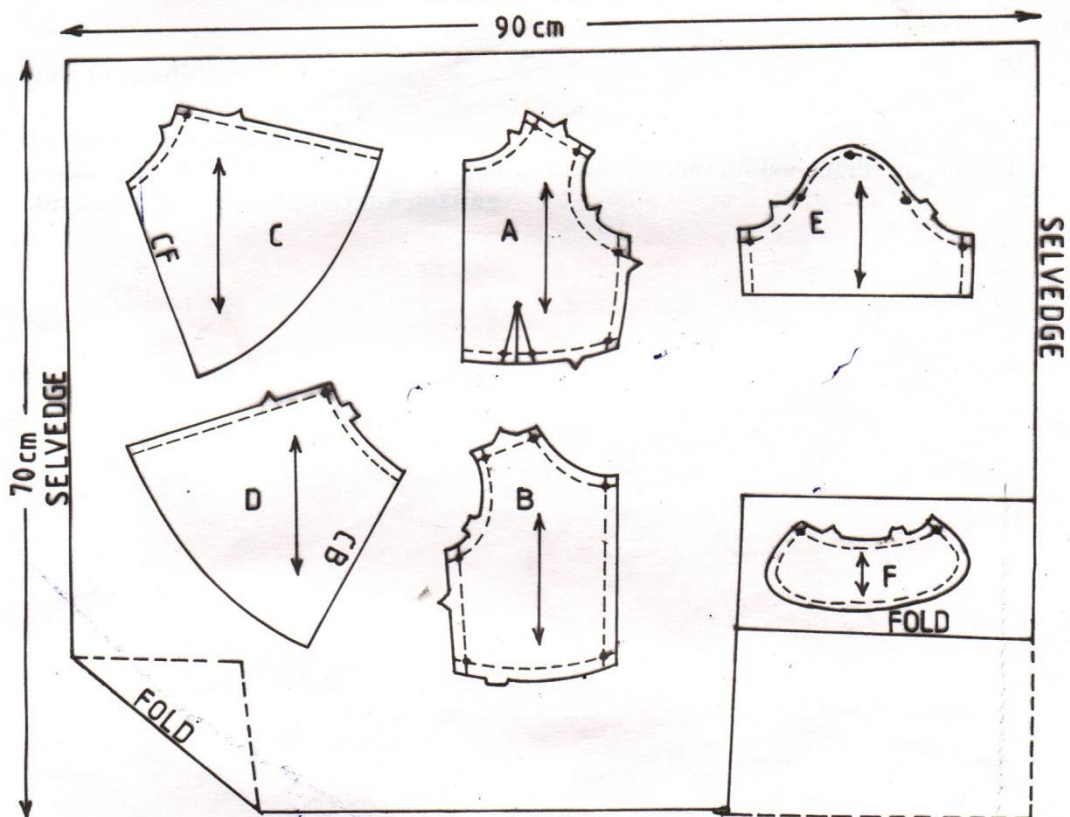
DRESS VIEW



BACK

FRONT

LAYOUT (NOT TO SCALE)



KCSE 2026 TOPGRADE PREDICTION

(BLUEPRINT REPLICA OF KCSE 2026 EXAMINATION)

HOME SCIENCE

441/2

PAPER 2

TIME: 2½ HOURS

NAME.....

SCHOOL..... SIGN.....

INDEX NO..... ADM NO.....

Kenya Certificate of Secondary Education.

HOMESCIENCE

PAPER 2

CLOTHING CONSTRUCTION

TIME: 2 ½ HRS

Instructions to candidates

- (a). This paper consist of three printed pages
2. **Candidates should check the question paper to ascertain that all pages are printed as indicated and that no questions are missing.**
3. Candidates **must** use machine stitches appropriately in the construction of the garment.
4. Hand stitches used **instead** of machine stitches will not be marked.
5. Hand stitches will only be allowed for the making of hemming and tacking stitches.

THE TEST

A pattern of a girls dress has been provided .You are advised to study the sketches ,read instructions and layout carefully before you begin the test.

1.MATERIALS PROVIDED

A Bodice front

B Bodice back

C Skirt front

D Skirt Back

E Sleeve

F Collar

G Cut out a crossway strip measuring 18cm long and 9cm wide.

2.Plain light weight cotton fabric 70cm long by 90 cm wide.

3.cotton sewing thread to match the fabric.

4,One large envelope.

THE TEST

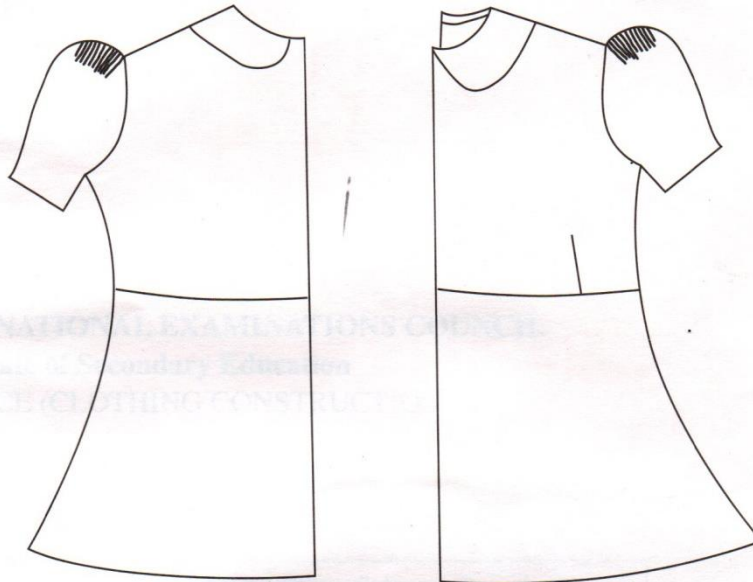
Using the materials provided, cut out and make the **LEFT SIDE**, of the girls dress to show the following processes.

- a) Cutting out (17mks)
- b) Making of the dart at the front bodice (6½mks)
- c) Making of a shoulder seam using a double stitched seam (8mks)
- d) Making of the side seam on bodice skirt using an open seam (11mks)
- e) Attaching of the bodice pieces to the skirt pieces using a plain seam and neatening half of the back seam using loop stitches (11mks)
- f) Preparation of the collar and attaching of the collar using a crossway strip (15½mks)
- h) Making of the underarm seam using an open seam (6mks)
- i) Preparation and attachment of the sleeve .Do not trim or neaten the seam allowance (8½)
- j) Overall presentation(6½ mks)

OMIT

The management of the lower hem of the skirt and the sleeve.

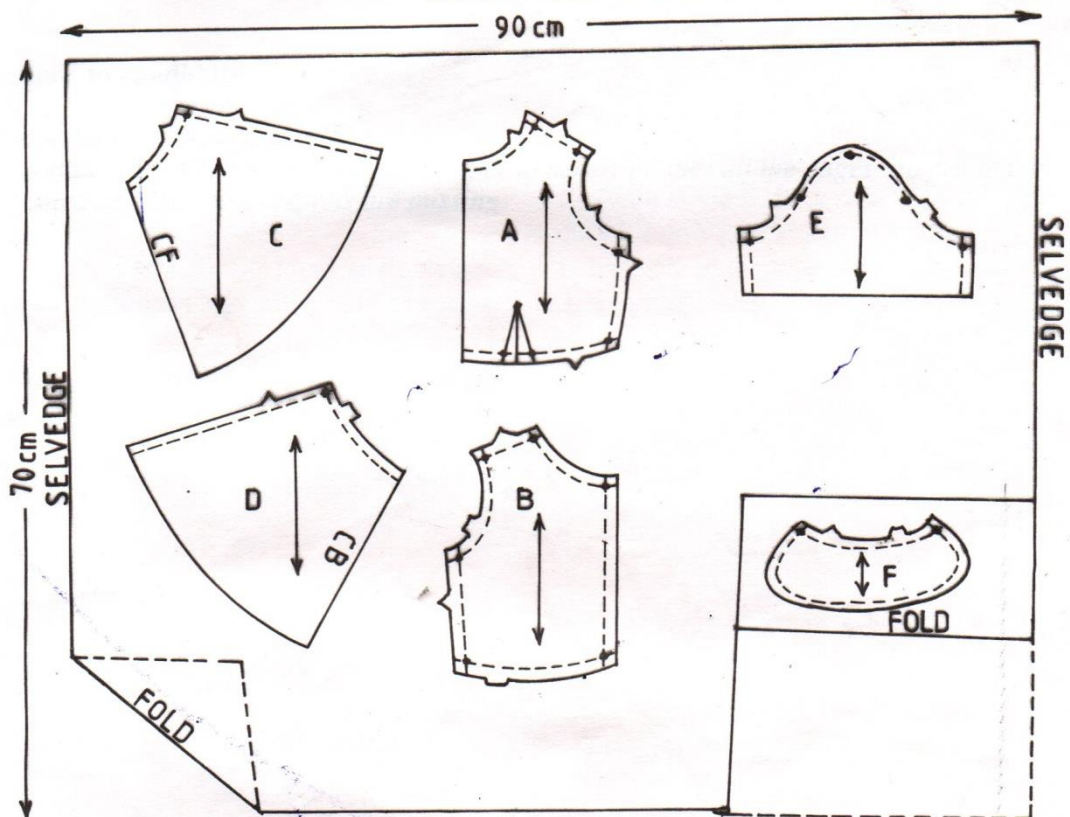
DRESS VIEW



BACK

FRONT

LAYOUT (NOT TO SCALE)



KCSE 2026 TOPGRADE PREDICTION

(BLUEPRINT REPLICA OF KCSE 2026 EXAMINATION)

HOME SCIENCE

441/3

PAPER 3

TIME: 1¾ HOURS

NAME.....

SCHOOL..... SIGN.....

INDEX NO..... ADM NO.....

Kenya Certificate of Secondary Education.

441/3

HOMESCIENCE

(FOODSANDNUTRITION)

PAPER3

1¾HRS

PLANNING SESSION:30MINUTES PRACTICAL TEST SESSION:1 ¼ HRS

Instructions to Candidates

1. -Read the test carefully.
2. -Write your name and index number on every sheet of paper used.
3. -Textbooks and recipes may be used during the planning session as reference materials.
4. -You will be expected to keep to your order of work during the practical session.
5. -You are only allowed to take away your reference materials at the end of the planning session.
6. -You are not allowed to bring additional notes to the practical session

THE TEST

You are a dayscholar who stays with your aunt . Using the ingredients provided prepare, cook and serve:

A two dish supper for both of you. Include a nutritious drink.

- Liver/Beef/Green/Peas.
- Green bananas / Rice
- Vegetables
- Tomatoes
- Onions
- Cooking fat
- Salt
- Garlic
- Sweet pepper
- Spices.
- Pineapples/mangoes

PLANNING SESSION 30minutes

Use separate sheets of paper for each task listed below and a carbon paper to make duplicate copies.

Then proceed as follows:

1. Identify the dishes and write down their recipes.
2. Write down your order of work.
3. Make a list of the foodstuffs and equipment you will require.

THE END

26

TO ALL CANDIDATES;

*Incase a Significant Number of these Questions
Appear in KCSE Exam, Don't panic!*

TAKE IT EASY



FOR MARKING SCHEMES
CONTACT

0746-222-000

0753-222-000

kcsepredictions@gmail.com

SUCCESS

TO ALL

KCSE CANDIDATES