FORM 3 TERM 1(ENTRY) EXAMS

ALL SUBJECTS

Compilation of Standard set of Term 1 Questions for the Current Class. Comprehensive Paper in Each Subject.

SUBJECTS TESTED;

Mathematics, English, Kiswahili, Biology, Chemistry, Physics, CRE, Geography, History, Business Studies, Agriculture, French, Home Science & Computer Studies.

SERIES 2

For Marking Schemes

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

MWALIMU CONSULTANCY

FORM 3 ENTRY EXAMINATIONS

SERIES 2

BIOLOGY

TIME: 2½ HOURS

NAME…… ADM NO; …….

CLASS…… DATE…….

INSTRUCTIONS TO CANDIDATES

- *Write your name and admission Number in the spaces provided above.*
- *Sign and write date of examination in the spaces provided above.*
- *Answer **ALL** questions in the spaces provided.*
- *All workings **must** be clearly shown where necessary.*

QUESTIONS

1. (a) In binomial nomenclature, which name is supposed to begin with. **(2mks)**

(i) Small letter

(ii) Capital letter

(b) State any other guideline that should be followed when scientific names are typed or printed.

(1mk)

……

2. Define the following terms as used in the study of living organisms

(i)Ornithology **(1mark)**

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(ii) Ecology **(1mark)**

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(iii) Cytology **(1mark**

……

3. State three adaptations of the alveolus to its functions. **(3mks)**

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4. a) Explain the term cell specialization. **(1mk)**

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b.) State how the following cells are specialized to perform their function.

i). Red blood cell **(1mks)**

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ii. Root hair cell **(1mk)**

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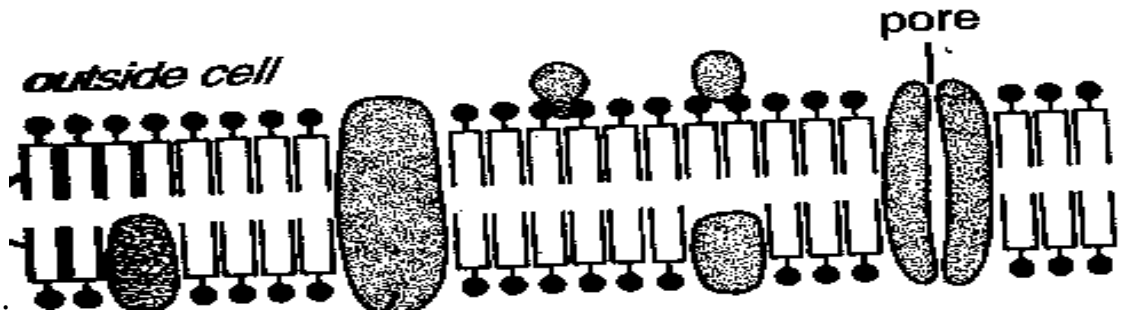
5. Below is a diagram of a structure found in Eukaryotic cells? Study it and answer the questions that follow



a) Identify the structure **(1 mark)**

……

b) State **two** properties of the **structure** **(2 marks)**

……

……

c) On the diagram, label protein layer and phospholipid layer **(2 marks)**

6. List down any two importance of translocated food substances in plants. **(2mks)**

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……

7. State two differences between open and closed circulatory system. **2mks)**

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……

8. State TWO reasons why it is important for plants to lose water vapour to the atmosphere. **(2mks)**

……

……

9. (a) What is blood transfusion? **(2mks)**

……

……

(b) From among the following blood vessels, place each in its correct description.

Artery, capillary, vein, **(3mks)**

Carry blood at highest pressure	Carry blood at lowest pressure	Has thick muscular wall

10. (a) Write down two adaptations of the root hairs to perform their function. **(2mks)**

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11. a) Explain why the leaf of a sisal plant has a thick and shiny cuticle **(2mks)**

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(b)Which blood vessel supplies oxygenated blood to the liver.? **(1mk)**

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12. Name the gaseous exchange site in :

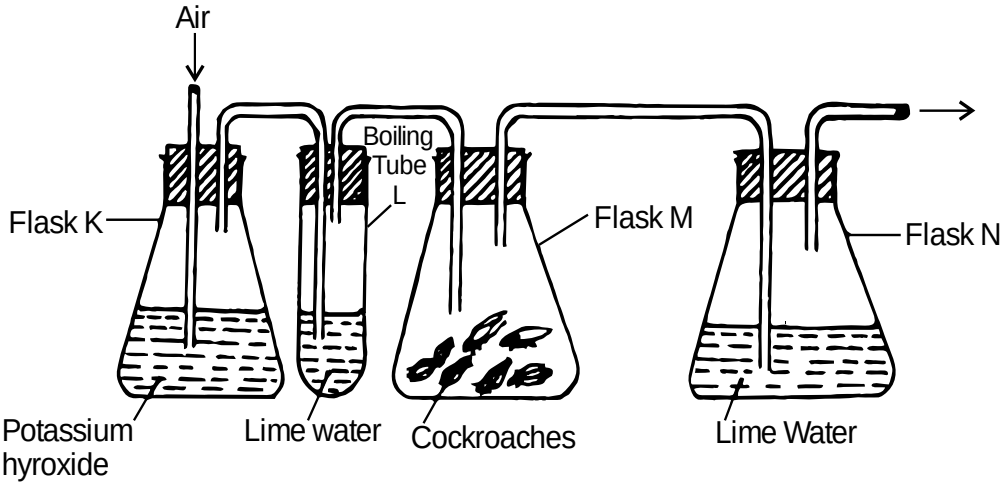
(i) Man **(1 mk)**

……

(ii) Fish **(1 mk)**

……

13. a) The diagram below represents a set-up that students used in an investigation.



a) Name the physiological process that was being investigated. **(1 mark)**

……

b) i) What observation would be made in boiling tube L and N. **(2 mark)**

L-

N-

ii) Give reason for the observation made in flask N. **(2mark)**

……

……

14. How do the following factors affect active transport?

a) Glucose concentration. **(2mks)**

……

……

b) Change in pH. **(2mks)**

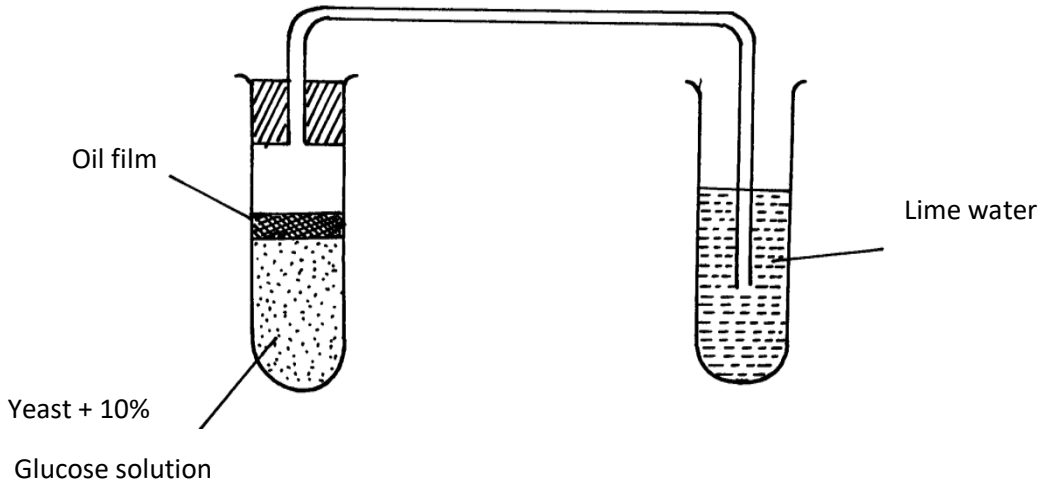
……

……

15. State three differences between glycolysis and krebs cycle. **(3mks)**

Glycolysis:	**Kreb's cycle:**

16. The apparatus below was used to investigate anaerobic respiration:-



(a) How would you remove dissolved oxygen from the glucose before the experiment Commencing? **(1mk)**

(b) State what happens to the lime water as the experiment proceeds to the end **(1mk)**

(c) Describe the reactions in the experiment **(3mks)**

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17. State 2 ways through which plants eliminate their waste products. **(2mks)**

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……

18. State the functions of the following parts of the human skin. **(2mks)**

i) Nerve endings,

……

……

ii) Cornified layer.

……

……

19. Name two components of blood that are not present in the glomerular filtrate. **(2mks)**

……

……

20. (a) Distinguish between digestion and absorption as used in animal nutrition. **(2mks)**

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(b) Amylase is an enzyme involved in the digestion of starch. Name two parts of digestive system where it digests food. **(2mks)**

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(c) How is the palisade layer of the leaf adapted for photosynthesis? **(2mks)**

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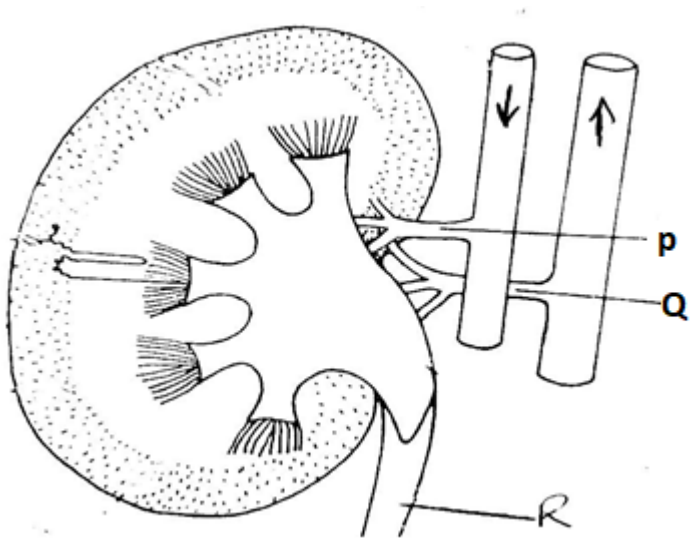
……

21. The diagram below illustrates an internal section of a mammalian kidney.



a) State three differences in composition of fluids passing through vessels **P** and **Q**. **3marks)**

P	Q

b) State two similarities between vessel **P** and vessel **Q** in terms of composition of fluids passing through them. **(2marks)**

……

……

……

c) State the substances that would be in high concentration in fluids that pass through vessel R in individuals:- **(2marks)**

i) Suffering from diabetes mellitus.

……

ii) Suffering from diuresis.

……

d) Name the organ where **R** empties its content to. **(1mark)**

……

22. The diagram below shows an organelle that is found in most cells. Study it and answer the questions that follow.



a. i. Name the organelle. **(1 mark)**

……

ii. State the function of the organelle in a (i) above. **(1 mark)**

……

b. i. Give the full name of the major chemical compound that is formed in the organelle. **(1 mk)**

……

ii. Identify the gas that is required in order to form the compound you have stated in b (i)above. **(1 mark)**

……

c. Give the name of the structure labeled H and state its function. **(2 marks)**

Identity

……

Function

……

d. i. In which cells between spermatozoa or ova would you expect to find a high number of the organelles named in a (i) above? **(1 mark)**

……

……

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

……

……

24. Describe the:

a) Process of inhalation in mammals. **(8marks)**

b) Mechanism of opening and closing of the stomata using the photosynthetic theory. **(12marks)**

FORM 3 ENTRY EXAMINATIONS

SERIES 2

CHEMISTRY

TIME: 2½ HOURS

NAME…… ADM NO; …….

CLASS…… DATE…….

INSTRUCTIONS TO CANDIDATES

1. *Write your name and index no in the spaces provided above.*
2. *Sign and write the date of exam in the spaces provided above.*
3. *Answer all the questions in the spaces provided after each.*
4. *All working must be clearly shown where necessary.*
5. *Candidates should check to ensure that all pages are printed as indicated and that no questions are missing.*
6. *All answers should be written in English.*

QUESTIONS

1. Element **A** has atomic mass 23 and element **B** has atomic mass 7 and also have 12neutorns and 4 neutrons respectively.

(a) Write the electronic arrangement of **A** and **B** **(2mks)**

……

……

(b) Which element has higher ionization energy? Explain **(2mks)**

……

……

……

2.The number of protons, neutrons and electrons in atoms **A** to **F** are given in the table below the letters do not represent the actual symbol of the elements:-

Atoms	Protons	Neutrons	Electrons
A	3	4	2
B	9	10	10
C	12	12	12
D	17	18	17
E	17	20	17
F	18	22	18

(a) Choose from the table the letters that represent:

(i) An atom of a metal **(1mk)**

……

(ii) A neutral atom of a non-metal **(1mk)**

……

(iii) An atom of a noble gas **(1mk)**

……

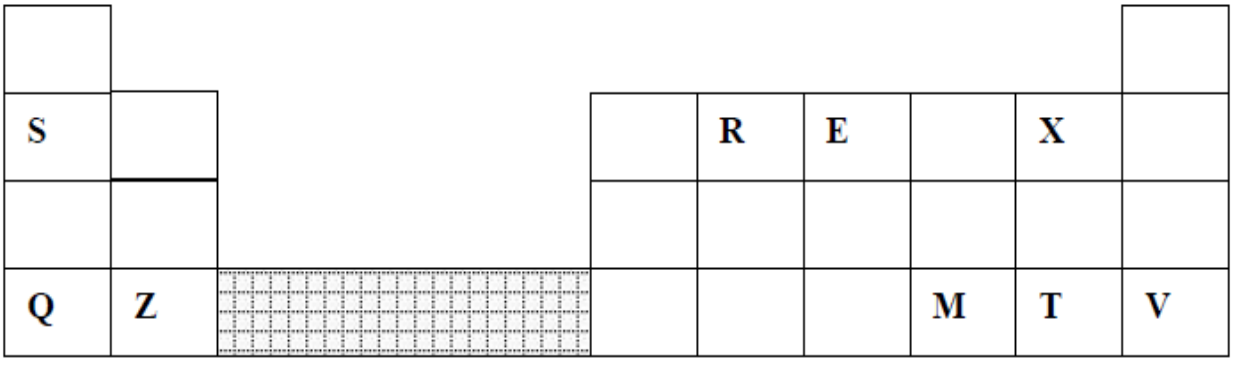
(iv) A pair of isotopes **(1mk)**

……

(v) A cation **(1mk)**

……

3.The grid below represents part of the periodic table. Study it and answer the questions that follow:



(a) (i) Identify the element that gains electrons most readily **(1mk)**

……

(ii) Which of the metal is most reactive? Explain **(2mks)**

……

……

(iii) What name is given to the family of elements to which elements **X** and **T** belong**? (1mk)**

……

(iv) Explain why:-

(I) Ionic radius of **Q** is larger than that of **M** **(1mk)**

……

……

(II) Atomic radius of **Q** is greater than that of **S** **(1mk)**

……

……

(v) Which of the element in the table does not have the ability to form an ionic or covalent bond? Explain **(2mks)**

……

……

……

(vi) Give the formula of the compound formed between **R** and **Z** **(2mks)**

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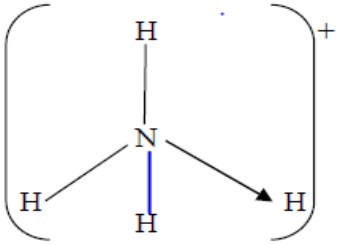
……

4.The structure of ammonium ion is shown below;



a)Name the type of bond represented in the diagram by N ⟶ **H** **(1mk)**

b). Study the table below and answer the questions that follow:-

Substance		**A**	**B**	**C**	**D**	**E**	**F**
Melting Point (°C)		801	113 119	-39	5	-101	1356
Boiling point (°C)		1410	445	457	54	-36	2860
Electrical	Solid	Poor	Poor	Good	Poor	Poor	Poor
Conductivity	liquid	Good	Poor	Good	Poor	Poor	Poor

I Identify with reasons the substances that:

(i) Have a metallic structure **(1½mk)**

……

……

(ii) Have a molecular structure and exist in the liquid state at room temperature and pressure **(1½mk)**

……

……

(iii) Suggest a reason why substance **B** has two melting **points** **(1mks)**

……

……

(iv) Substances **A** and **C** conduct electric current in the liquid state. State how the two substances differ as conductors of electric current **(2mks)**

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5.In an experiment, ammonium chloride was heated in test-tube. A moist red litmus paper placed at the mouth of test first changed blue then red. Explain these observations:- **(2mks)**

……

……

……

6. a) Give the name of each of the processes described below which takes place when salts are exposed to air for sometime**:-** **(3mks)**

i) Anhydrous copper sulphate becomes wet

……

ii) Magnesium chloride forms an aqueous solution

……

iii) Fresh crystals of sodium carbonate, Na2CO3**.**10H2O become covered with white powder of formula Na2CO3**.**H2O

……

7. (a) Write an equation to show the effect of heat on the nitrate of**:-** **(2mks)**

(i) Potassium

……

……

(ii) Silver

……

……

8.You are provided with the following:- solid lead (II) nitrate, magnesium oxide powder, dilute sulphuric (VI)acid and distilled water. Describe how you can prepare a dry sample of lead (II) sulphate. **(3mks)**

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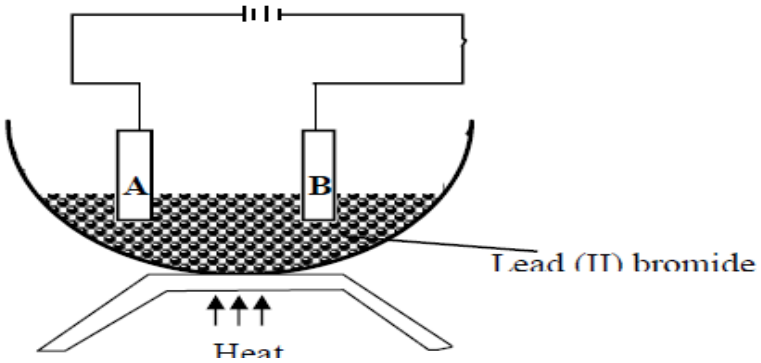
9.Study the diagram below and use it to answer the questions that follow:-



(a) Identify electrodes **A** and **B** **(2mks)**

……

……

(b) Name the product formed at the anode **(1mk)**

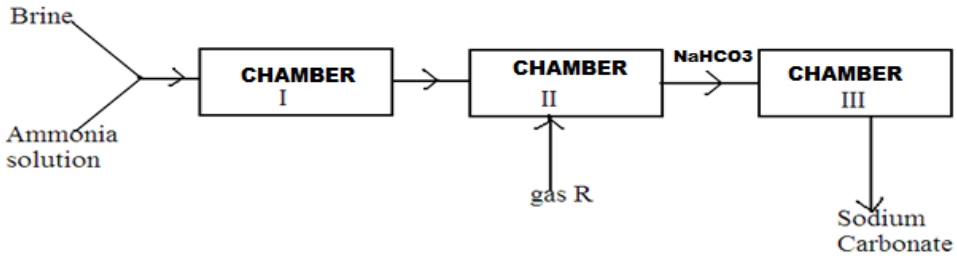
……

(c) Write the electrode half equation of reaction at electrode **A** **(1mk)**

……

……

10. Below is a simplified scheme of Solvay process. Study it and answer the questions that follow.



(a).Identify gas R. **(1mk)**

……

(b)Write an ionic equation for the process in chamber III. **(1mk)**

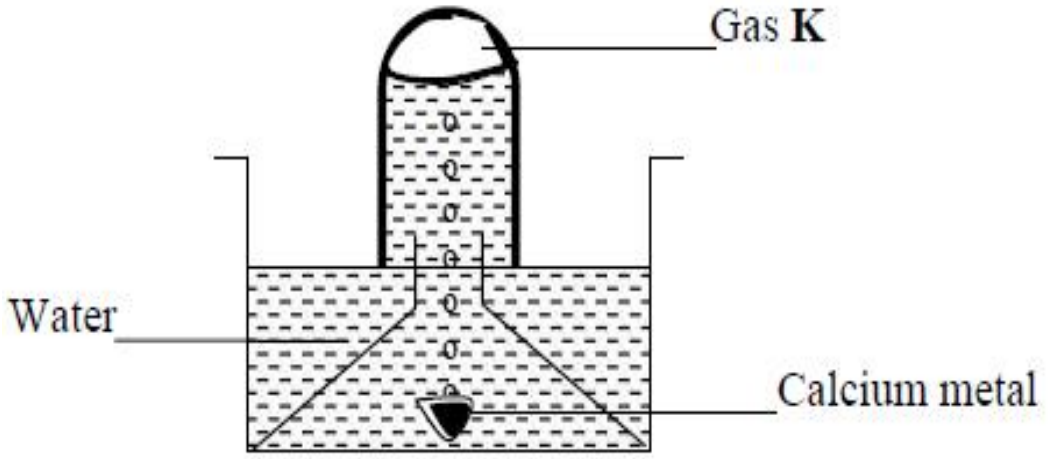
……

(c).Give two uses of sodium carbonate. **(2mks)**

……

……

11. The set up below was used to collect gas **K,** produced by the reaction between water and calcium metal**.**



(a) Name gas **K** **(1mk)**

……

……

(b) At the end of the experiment, the solution in the beaker was found to be a weak base. Explain why the solution is a weak base

……

……

12. Name the process which takes place when **(2mks)**

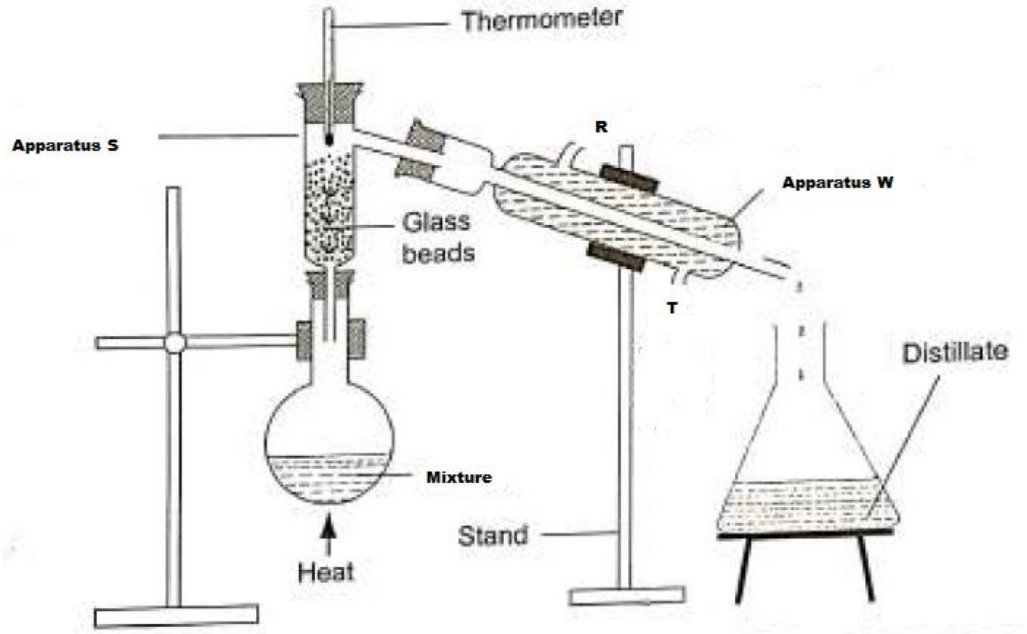
(a) Solid Carbon (Iv) Oxide (dry ice) changes directly into gas

……

(b) A red litmus paper turns white when dropped into chlorine water

……

13.A student left some crushed fruit mixture with water for some days. He found the mixture had fermented. He concluded that the mixture was contaminated with water and ethanol with boiling point of 100oC and 78oC respectively. The set-up of apparatus below are used to separate the mixture.



(i) Name the piece of apparatus labelled **W** **(1mk)**

……

(ii) What is the purpose of the thermometer in the set-up**?** **(1mk)**

……

iii) At which end of the apparatus **W** should tap water be connected? **(1mk)**

……

(iv) Which liquid was collected as the first distillate? Explain **(1mk)**

……

……

(v) What is the name given to the above method of separating mixture? **(1mk)**

……

(vi) State two applications of the above method of separating mixtures **(1mk)**

……

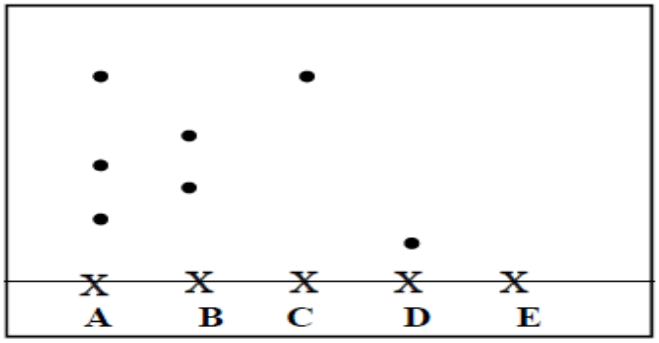
……

(vi) What properties of the mixture makes it possible for the component to be separated by the above methods? **(1mk)**

……

……

14. The following diagram shows a paper chromatogram of substances A, B, C, and D which are coloured



(a) Indicate the solvent front on the chromatogram **(1mk)**

……

(b) Which substance is pure? **(1mk)**

……

……

(c) Substance **E** is a mixture of **C** and **D**. Indicate its chromatogram in the diagram **(1mk)**

……

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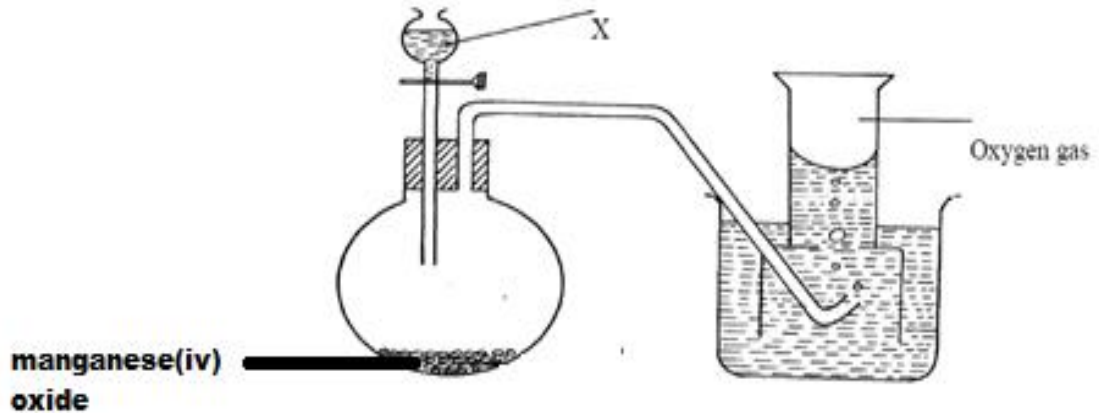
15.The diagram below shows students set-up for the preparation and collection of oxygen gas



(a) Name substance **X** used **(1mk)**

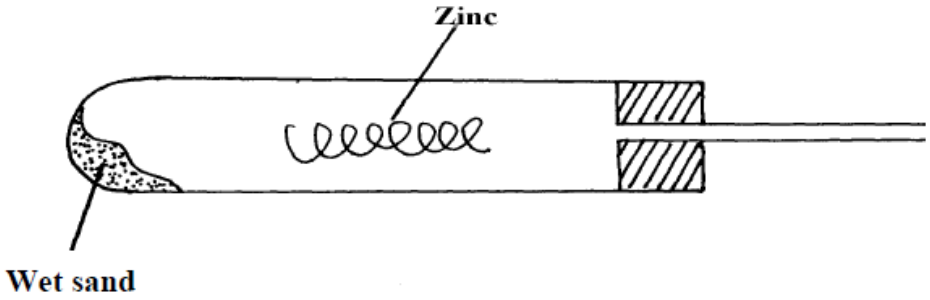
……

(b) Write an equation to show the reaction of sodium peroxide with the substance named in (**1mk)**

……

……

15. A student set-up the experiment as shown below to collect a gas. The wet sand was heated before heating zinc granules



(a) Complete the diagram for the laboratory preparation of the **gas** **(3mks)**

(b) Why was it necessary to heat wet sand before heating Zinc granules? **(1mks)**

……

……

16. Below are PH values of some solutions.

Solution	A	B	C	D
PH	6.7	13.0	2.1	7.0

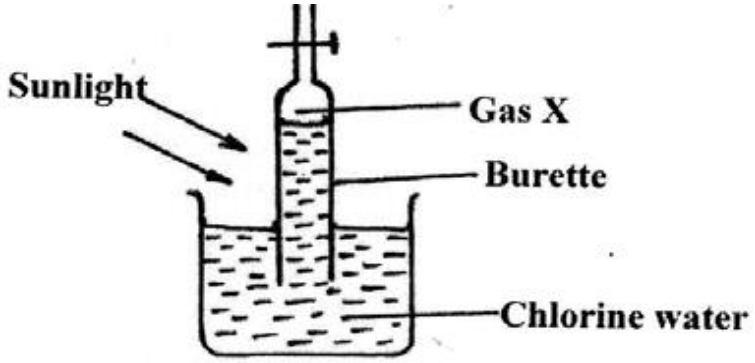
i) Which solution is likely to be

I. rain water **(½ mark)**

II. Sodium hydroxide **(½ mark)**

ii) Which substances will be formed when magnesium reacted with solution C**?(1 mark)**

17. An experiment was set up using chlorine water as shown below.



(i) Identify gas **X.** **(1mk)**

(ii) Write an equation for the production of gas **X.** **(1mk)**

(iii) State any TWO uses of chlorine gas**.** **(2mks)**

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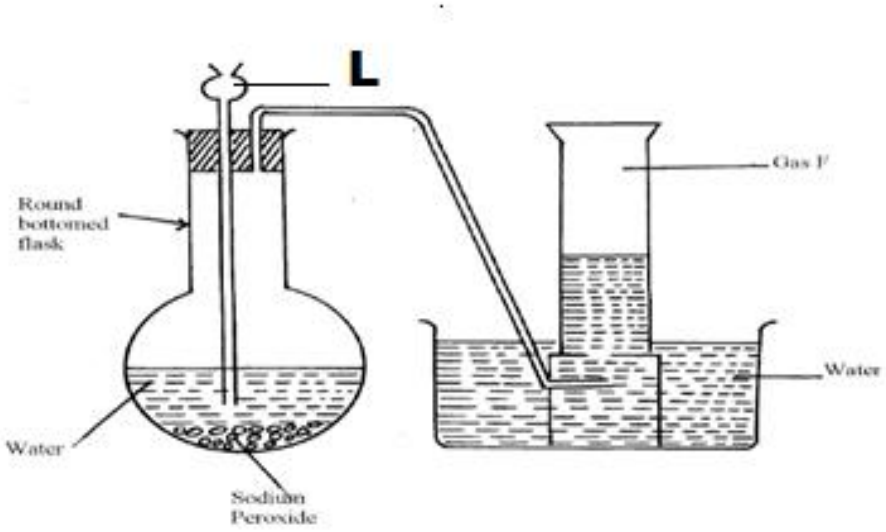
18. The set-up below was used to collect gas **F** produced by the reaction between sodium peroxide and water.



(i) Name gas **F** **(1mk)**

(ii) At the end of the experiment, the solution in the round bottomed flask was found to be a strong base. Explain why this was so**.** **(1mk)**

……

……

(iii) Which property of gas **F** makes it be collected by the method used in the set-up? **(1mk)**

……

(iv) Give **one** industrial use of gas **F** **(1mk)**

……

……

19. Complete the following table to show the colour of the following indicators in acidic and basic solution **(2mks)**

indicator	Colour in	
	Acidic solution	Basic solution
Phenolphthalein		
Methyl orange		Yellow
Litmus solution	Red	

20.Define the following terms **(2mks)**

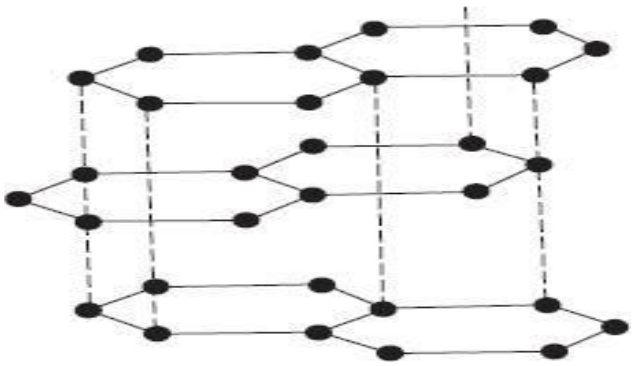
i) Cation

……

ii)Isotopes

……

21. The diagram below represents an allotrope of carbon.



a) name the allotrope**.** **(1mk)**

b)Explain why**:-** **(2mks)**

(i) Its slipperly

……

……

(ii) Conducts an electric current

……

……

FORM 3 ENTRY EXAMINATIONS

SERIES 2

PHYSICS

TIME: 2½ HOURS

NAME…… ADM NO; …….

CLASS…… DATE…….

PHYSICS

FORM 3

TERM ONE EXAM

TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES

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

b) *This paper consists of TWO sections: A and B*

c) *Answer All questions in section A and B in the space provided.*

d) *Show all the steps in your calculations, giving your answers at each stage in the spaces below each question.*

Take: Acceleration due to gravity g = 10m/s^2

Density of water 1 g/cm^3

Density of mercury 13.6 g/cm^3

SECTION A (40MARKS)

1. Figure 1 below shows a measuring cylinder containing some water. A student added 200 drops of water into the measuring cylinder. The Fig 2 shows the measuring cylinder after the addition of the drops

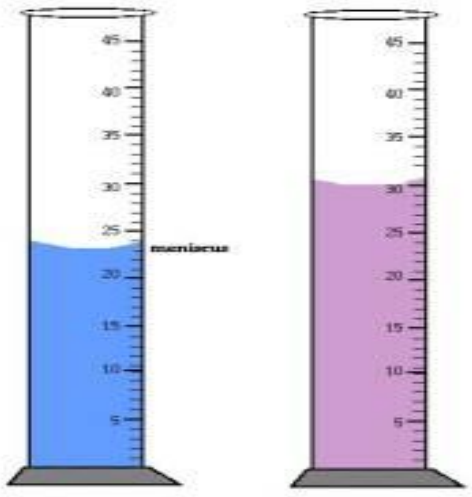


Fig 1 **fig 2**

a). State.

(i). The volume of the water added. **(2mks)**

……

……

……

(ii). Average volume of one drop of water. **(2mks)**

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……

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……

2. State two ways of increasing the surface tension of a liquid **(2 Marks)**

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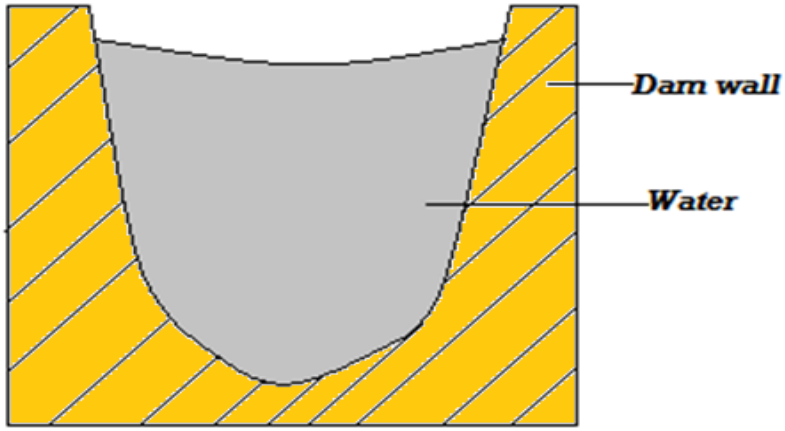
3. The figure below shows the transverse section of a water dam.



(a). Explain why engineers prefer this shape**.** **(2 marks)**

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……

(b). Given that pressure at the deepest point is 400000N/m^2. Determine the depth of this point given that density of water is 1000kg/m^3**.** **(3mks)**

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……

……

4.a) Give a reason why the weight of a body on earth is greater than the weight of the same body on the moon. **(2mks)**

……

……

b). An astronaut weighs 720N on the earth's surface. On a certain planet he weighs 540N. Determine the gravitational acceleration on this planet. (Take g for earth = 10N/kg) **(3mks)**

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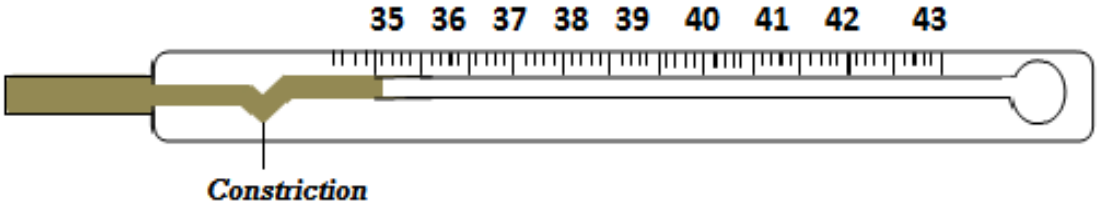
……

5 a). State two properties of a good thermometric **liquid** **(2 marks)**

……

……

b) The figure below shows a clinical thermometer. State the purpose of the constriction**.(1 mark)**



……

6. State Pascal's principle of transmission of pressure in fluids. **(1 mark)**

……

……

7. 1600cm^3 of fresh water of density 1 g/cm^3 is mixed with 1400cm^3 of sea water of density 1.25 g/cm^3. Determine;

a) The total mass of the mixture **(2mks)**

……

……

……

b) The density of the mixture **(2 mks)**

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……

……

8. Name two types of forces which can act between objects which are not in contact. **(2 marks)**

……

……

9. State the kinetic theory of gases **(1mark)**

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……

10. State one advantage of frictional **force** **(1 mark)**

……

……

11. A stop watch started 0.5s after the start button was pressed. The time recorded using the stop watch for a ball falling through a liquid was 2.53s. Determine the time of fall**.** **(1mk)**

……

……

12. State 2 properties of magnets.

……

……

13. Explain why it is easier to loosen a nut using a spanner with a long handle than a spanner with a short handle**.** **(2mks)**

……

……

……

14. State 2 ways in which the stability of a body can be increased. **(2mks)**

……

……

15. State one advantage and one disadvantage of using a convex mirror as driving mirror. **(2mks)**

……

……

16. A pipe of radius 6mm is connected to another pipe of radius 9mm . If water flows in the wider pipe at speed of 2m/s, what is the speed in the narrower pip**e.** **(2mks)**

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……

……

17. A spring stretches by 10mm when supporting a load of 4N. Determine how much it would stretch when supporting a load of 12N. **(3mks)**

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……

SECTION B 60 MARKS

18. **(a)** What is anomalous expansion of water **(1mk)**

……

……

(b) Convert -123° c to temperature to **kelvin** **(2mks)**

……

……

……

(c) State the functions of the following features of a common thermometer

i. Bulb **(1mk)**

……

ii. Capillary bore **(1mk)**

……

iii. Glass stem **(1mk)**

……

19. (a) Differentiate between temperature and heat **(2mks)**

……

……

……

(b) Why are liquids poor conductors of heat than solids **(1mk)**

……

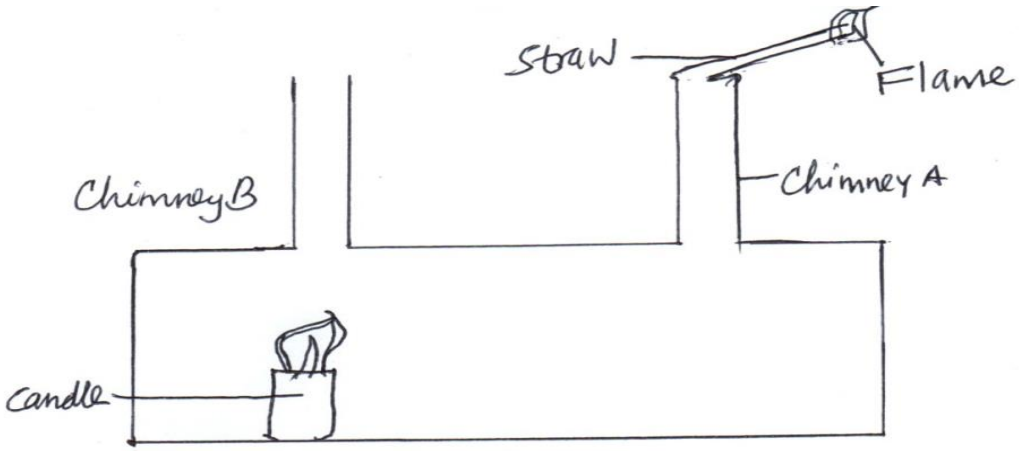
……

(c) Define convection **(1mk)**

……

……

(d) A lighted candle is placed inside a transparent box with two chimneys and a smoldering straw on one chimney as shown



a. State and indicate what is observed in the box **(1mk)**

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b. Explain your observation **(2mks)**

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20. (a) State two properties of a magnet **(2mks)**

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(b) State the basic law of magnetism **(1mk)**

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(c) Define magnetic **field** **(1mk)**

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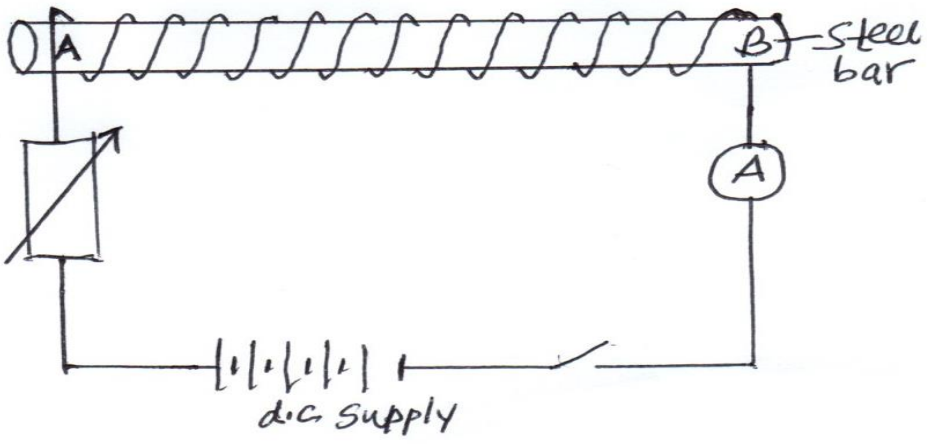
(d) Draw the resultant, magnetic field pattern between two south poles below **(2mks)**



(e) The following diagram represent one method of making a magnet



a. State the rule used to determine the poles of the attained magnet after the steel is magnetized**.** **(1mk)**

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b. Use the rule to determine the polarity of A and B. **(1mk)**

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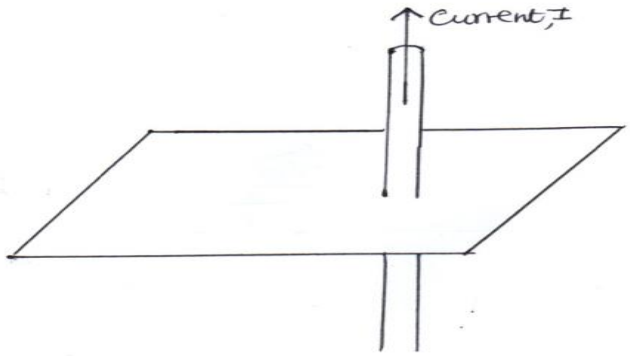
21. (a) The following diagram shows a current flowing in a straight conductor as shown. Draw the magnetic field pattern showing its direction **(2mks)**



(b) (i) State one factor on which the magnetic strength of an electromagnet depends on showing how each factor relates to strength. **(1mk)**

……

……

(ii) How does the factor you have stated above in b (i) affect the magnetic strength of an electromagnet **(1mk)**

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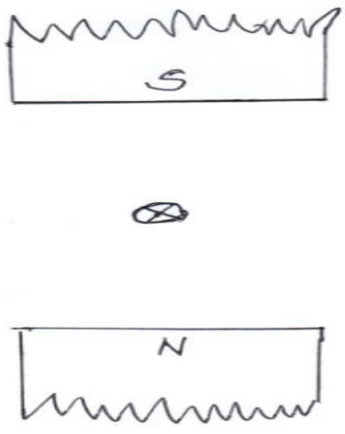
(c) A straight current carrying conductor is placed between two poles of bar magnets as shown below.



i. Draw the resultant field lines after interaction of the magnetic fields of the poles and those of the conductor. **(2mks)**

ii. Indicate the direction of the force acting on the conductor **(1mk)**

22. (a) Define the following terms:

a. Transverse waves **(1mk)**

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b. Longitudinal waves **(1mk)**

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(b) A water wave travels 12m in 4s. If the frequency of the waves is 2Hz, calculate

i. The speed of the wave **(2mks)**

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ii. The wavelength of the wave **(3mks)**

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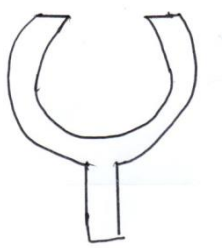
23. (a) The prongs of a tuning fork are made to vibrate by striking them against a hard surface and vibrate

a. Draw the waves produced **(2mks)**



b. Name the type of wave drawn **(1mk)**

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(b) State two factors which affect velocity of sound in air **(2mks)**

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(c) Two boys stood 200m from a wall. One banged two pieces of wood together while the second one started a stop watch and stopped it when he heard the echo. If the time shown on the stop watch was 1.2 seconds. Calculate the speed of sound in air**.** **(3mks)**

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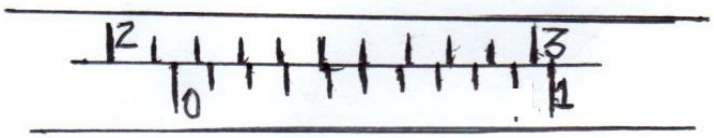
24. (a) A form 2 student used a vernier calipers to measure the diameter of a ball bearing. Determine the reading shown **(2mks)**



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(b) An oil drop of diameter 0.5 mm spreads on the surface of water to form an oil patch of diameter 0.2m. Estimate the thickness of the oil patch**.** **(3mks)**

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25. (a) Define the following terms as applied in curved mirrors

a. The pole **(1mk)**

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b. Center of curvature **(1mk)**

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(b) An object pin of height 2cm is placed 4cm in front of a concave mirror of focal length 3cm. construct a ray diagram by scale drawing to find the position of the image **(3mks)**

From your diagram, determine

c. The image distance **(1mk)**

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d. Magnification of the image **(2mks)**

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26. (a) State the principle of moments **(1mk)**

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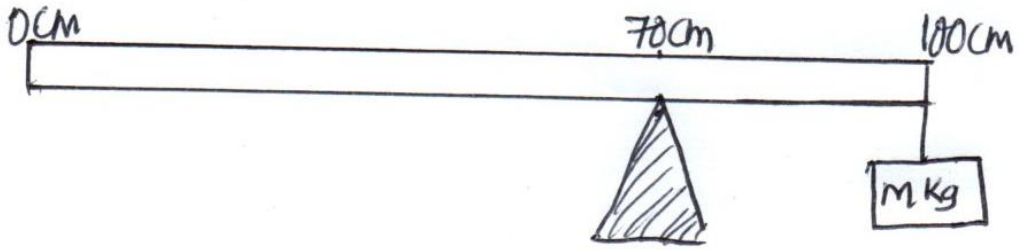
(b) A uniform wooden bar, 100cm long balances at 70 cm mark when a mass of m kg is attached at 100cm mark as shown below.



If the mass of the wooden bar is 200 g, find the mass, m which balances the wooden bar (g = 10N/kg) **(3mks)**

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FORM 3 ENTRY EXAMINATIONS

SERIES 2

AGRICULTURE

TIME: 2 HOURS

NAME…… ADM NO; …….

CLASS…… DATE…….

443

AGRICULTURE

FORM THREE

TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES:

1. *This paper consists of three sections; A, B and C*
2. *Answer ALL the questions in sections A, B and C.*
3. *All answers to be written in English*

FOR OFFICIAL USE ONLY

SECTION	QUESTION	MAX. SCORE	CANDIDATE SCORE
A	1 – 16	40	
B	17 – 21	30	
C	22 – 24	40	
	TOTAL	100	

SECTION A: 40 MARKS

Attempt All Questions.

1. Name two breeds of camel **(2 mks)**

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2. Give two factors which characterize small scale farming **(2 mks)**

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3. Give two examples for each of the following categories of water pipes

a. Metal pipes **(1 mk)**

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b. Hose pipes **(1 mk)**

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4. State two factors that influence the quality of farmyard manure **(2 mks)**

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5. Name three farm records that should be kept by a poultry farmer **(3 mks)**

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6. Describe three properties of nitrogenous fertilizer **(3 mks)**

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7. Give three reasons for using certified seeds for planting **(3 mks)**

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8. Describe the procedure followed in preparing seed potatoes for planting. **(3 mks)**

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9. Differentiate between olericulture and pomoculture as used in crop production **(1 mk)**

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10. Give three factors to consider when choosing a nursery site. **(3 mks)**

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11. Give two advantages of crop rotation **(2 mks)**

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12. State three disadvantages of mono – cropping in crop production **(3 mks)**

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13. What is meant by the following words:

i. Pruning (**1 mk)**

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ii. Rouging **(1 mk)**

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14. State three reasons for maintaining livestock in good health. **(3 mks)**

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15. State three uses of water in the body of the animal. **(3 mks)**

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16. List two methods of testing soil pH in agriculture**.** **(2 mks)**

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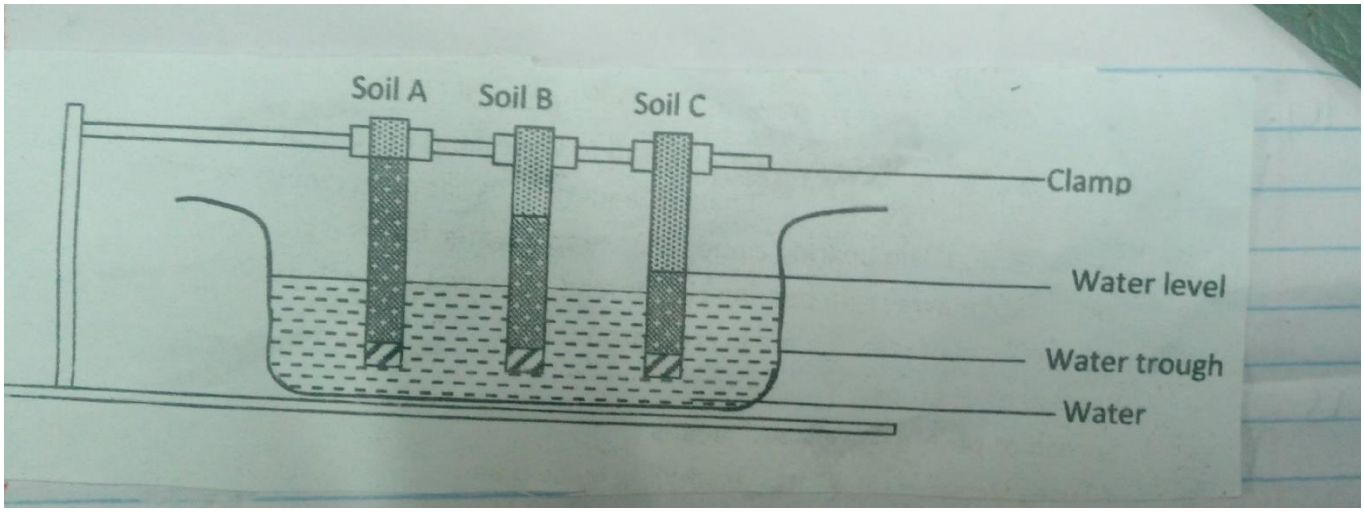
SECTION B: 30 MARKS.

ATTEMPT ALL QUESTIONS.

17. An experiment was carried out with three different soils. The soils were put in different capillary tubes of equal sizes. The capillary tubes were placed in water trough containing water. The results after six hours are shown in the diagram below. Study it and answer the questions that follow.



a. What was the aim of this experiment? **(1 mk)**

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b. Name the soil A, B and **C** **(3 mks)**

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c. State two ways of improving soil C for growth of crops. **(2 mks)**

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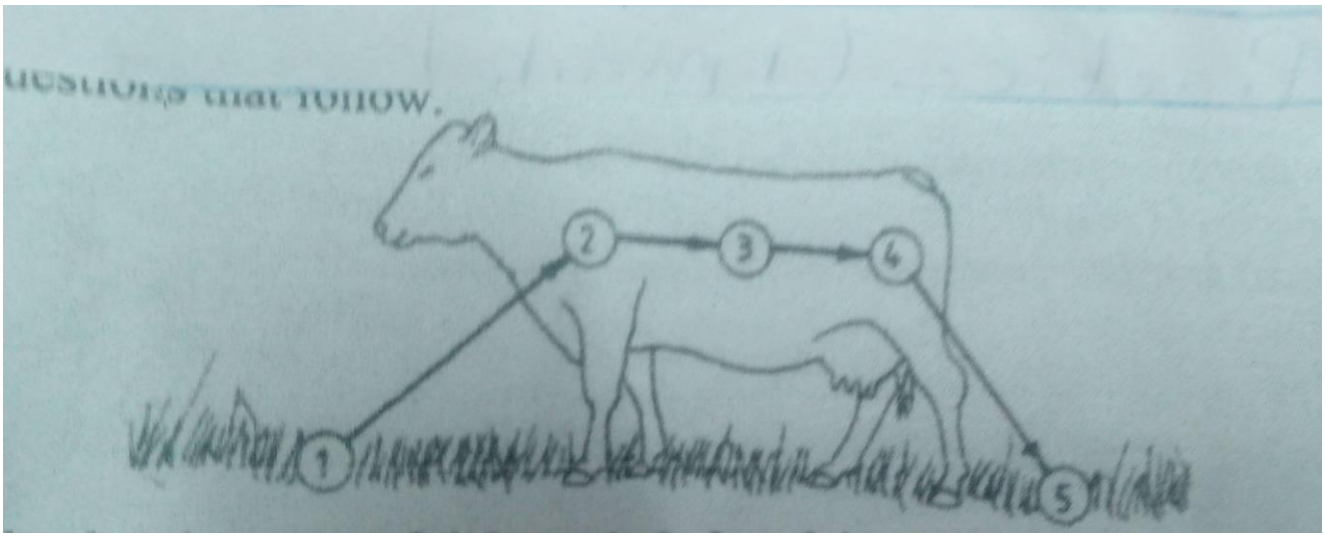
18. The diagram below illustrates the stages of life cycle of a tick. Study the diagram and answer the questions that follow.



a. Describe the development of ticks at stage 1, 2, 3, **and 4.** **(4 mks)**

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b. Classify the tick on the basis of the life cycle. **(1 mks)**

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c. Give three non – chemical methods of controlling ticks. **(3mks)**

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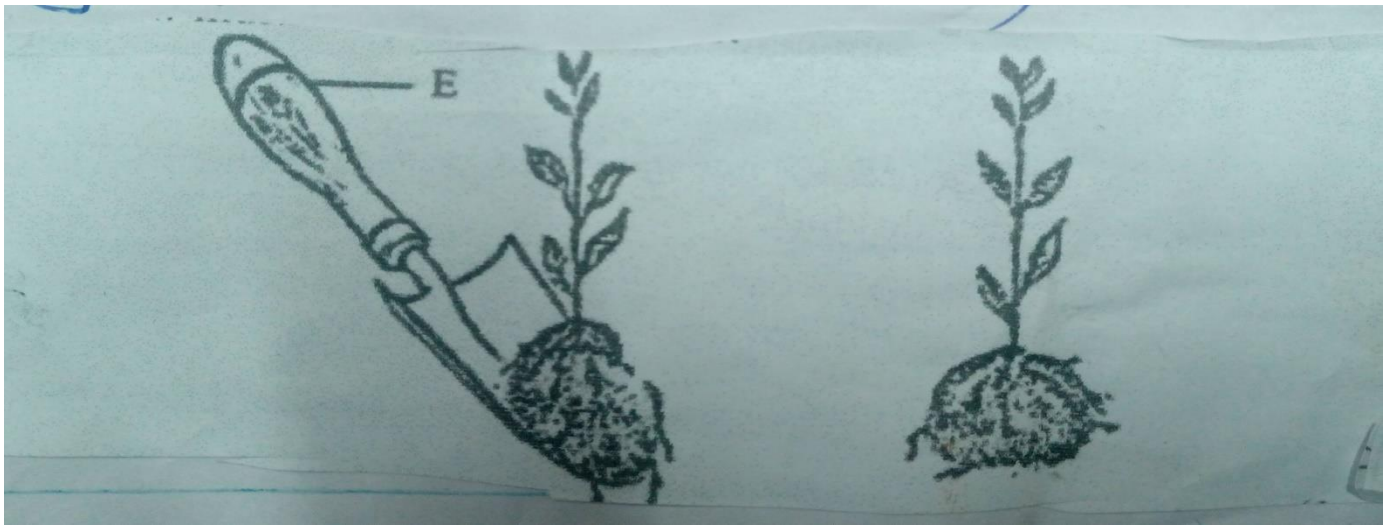
19. The diagram below illustrates a nursery practice. Study it and answer the questions that follow.



a. Name the practice. **(1 mk)**

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b. Give a reason why the tool labeled E is important in the practice illustrated. **(1 mk)**

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c. What is the appropriate stage of growth for carrying out the illustrated practice in vegetables? **(1 mk)**

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d. Explain two activities that ensure the illustrated practice is called out successfully**.** **(2 mks)**

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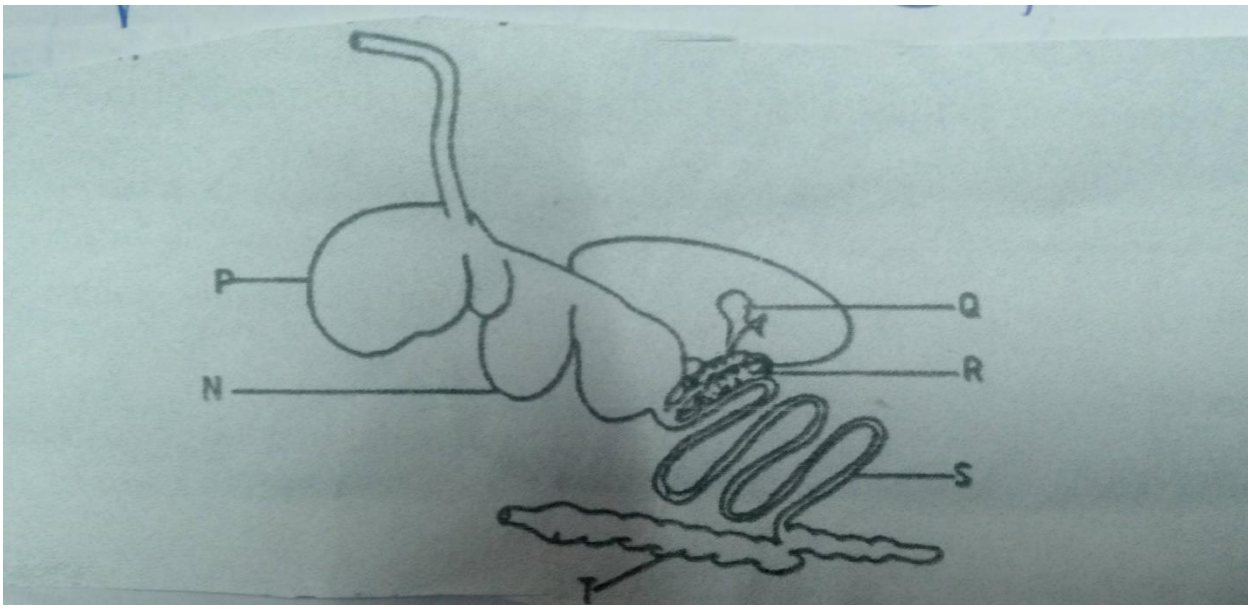
20. The diagram shows the digestive system of cattle. Study it and answer the questions that follow.



a. Name the parts labeled **N, P and Q.** **(3 mks)**

N

P

Q

b. State one function of the parts labeled **(2 mks)**

S

T

c. Give one enzyme produced by each of the parts labeled R and **S.** **(2 mks)**

R

S

21. A member of Young Farmers Club in Sabasaba secondary school was advised to apply fertilizer 30:20:10 in a tomato plot measuring 10m by 5m at the rate of 300Kg per hectare. (1 ha = 10,000m^2)

a. State the percentage of:

i. P_2O_5 in the complete **fertilizer (1 mk)**

ii. K_2O in the complete fertilizer. (**1 mk)**

b. Calculate the amount of fertilizer the member would require for the plot. Show your working. (2 mks)

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SECTION C: 40 MARKS

ATTEMPT ALL THE QUESTIONS.

22. Describe the production of kales under the following sub headings

a. Nursery preparation **(3 mks)**

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b. Management of seedlings in the nursery **(4 mks)**

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c. Give one condition under which blossom end rot disease may occur in tomatoes **(1 mk)**

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23.

a. State five effects of strong winds in crop production. **(5 mks)**

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b. Explain eight environmental conditions that may lead to low crop yields **(8 mks)**

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c. State four advantages of irrigation **(4 mks)**

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24.

a. Describe signs of ill health in livestock **(10 mks)**

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b. Describe five farming practices that help to achieve minimum tillage. **(5 mks)**

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FORM 3 ENTRY EXAMINATIONS

SERIES 2

BUSINESS STUDIES

TIME: 2½ HOURS

NAME…… ADM NO; …….

CLASS…… DATE…….

BUSINESS STUDIES

FORM THREE

TIME:2 HRS

INSTRUCTIONS TO CANDIDATES

- ***Write your name and admission number in the spaces provided.***
- ***Answer all questions in the spaces provided in this booklet***
- ***Candidates should check the question paper to ascertain that all pages are printed as indicated and no questions are missing.***

FOR EXAMINER'S USE ONLY

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

Question	14	15	16	17	18	19	20	21	22
Marks									

TOTAL SCORE

QUESTIONS

1. Outline the benefits that John a student would get from studying business studies. **(4mks)**

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2. Outline four barriers to effective communication. **(4mks)**

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3. State four characteristics of a successful entrepreneur . **(4mks)**

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4. State the type of human wants one would satisfy in each of the following. **(4mks)**

a) A tourist going to Maasai Mara National Park_____

b) Cooking food for school children_____

c) Playing football_____

d) Putting on clothes_____

5. State four reasons why a form four leaver would want to start a business

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6. Outline four features of liners in sea transport. **(4mks)**

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7. Outline four advantages of a bonded warehouse to the importer

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8. State four features of land as a factor of production. **(4mks)**

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9. Identify four limitations that make consumer-initiated methods ineffective in protecting consumers in Kenya **(4mks)**

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10. Outline the rewards of each of the following resources. **(4mks)**

	Resource	Reward
(a)	Carpenter	
(b)	Fertile soil	
(c)	Investor	
(d)	Machinery	

11. James is a manufacturer and a distributor of building materials. Outline four types of insurance policies that he may take for his business **(4mks)**

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12. Highlight four ways in which a business idea can be implemented **(4mks)**

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13. Highlight four characteristics of chain stores. **(4mks)**

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14. State four importance of communication to a business **(4mks)**

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15. Below are some factors that influence the operations of a business. Indicate whether the factor is associated with internal or external environment.

	Factor	Environment
(a)	Demographic	
(b)	Business culture	
(c)	Business policies and styles	
(d)	Competitors	

16. Outline four duties of commercial attachees **(4mks)**

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17. Outline four circumstances under which cash in order may be used. **(4mks)**

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18. Highlight four advantages of containerization **(4mks)**

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19. Outline four features of services. **(4mks)**

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20. Traders have been complaining about poor services delivery in Wakulima warehouse. Give four reasons for this **(4mks)**

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21. Explain five advantages of a sole proprietorship business. **(10mks)**

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22. Explain five ways in which the working environment in the office can be improved**(10 mrks)**

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FORM 3 ENTRY EXAMINATIONS

SERIES 2

CHRISTIAN RELIGIOUS EDUCATION

TIME: 2½ HOURS

NAME…… ADM NO; …….

CLASS…… DATE…….

INSTRUCTIONS:

- ***Answer ALL the questions***
- ***All answers must be written in English***

QUESTIONS

1. Name the five major divisions of Old and New Testament. **(5mks)**
2. Outline four similarities between traditional African view of evil and Christian understanding of sin**.** **(8mks)**
3. Outline five activities of David that showed he had faith in God. **(5mks0**
4. Give five ways in which Christian enhance the true worship of God today. **(5mks)**
5. Outline the role of God in African Traditional African society. **(5mks)**
6. Highlight factors that have brought changes in African Traditional African society **(5mks)**
7. Outline Jeremiahs prophecy concerning the messiah **(6mks)**
8. Describe the call of the first disciples**.** **(8mks)**
9. State five lessons that Christian learn from the call of the first disciples. **(5mks)**
10. Describe the transfiguration of Jesus **(8mks)**
11. Identify six ways in through which the church continues with the healing ministry of Jesus Christ **(6mks)**
12. Narrate the parable of the shrewd manager (**Luke 16:1-13)** **(8mks)**

13. With reference to the story of the rich man and Lazarus, explain the teaching of Jesus on proper use of wealth (Luke 16; 19-31). **(5mks)**
14. Give five reasons why Christian pray**.** **(5mks)**
15. Identify six ways in which Christians prepare themselves for the second coming of Christ.(**5mks)**
16. Give six reasons why Peter denied Jesus. (**6mks)**
17. list five names that are used to refer to Lord's Supper today**.** **(5mks)**

FORM 3 ENTRY EXAMINATIONS

SERIES 2

HISTORY & GOVERNMENT

TIME: 2½ HOURS

NAME…… ADM NO; …….

CLASS…… DATE…….

INSTRUCTIONS

(a) *This paper consist of three sections: A,B and C.*
(b) *Answer all questions in all sections*
(c) *Answers to all questions must be written in the answer booklet provided.*
(d) *Candidates should answer the questions in English.*

SECTION A(25 MKS)

1. Define the term 'pre-history' **(1mk)**

2. Give one contribution of archaeology to the study of history **(1mk)**

3. Identify two aspects of man's culture that had their origin in the late stone age **(2mks)**

4. Give two reasons why man moved from forests to settle in grasslands. **(2mks)**

5. Identify two agrarian changes that took place in Britain in the 18rh century **(2mks)**

6. Identify one natural factor that caused the Abagusii to migrate from mount Elgon region to their present homeland. **(1mk)**

7. Identify one age-group of elders among the Akamba. **(1mk)**

8. State the main factor that contributed to the growth of city states along the Kenya coast before 1500 AD. **(1mk)**

9. Define ‘ National integration’. **(1mk)**

10. State two results of the construction of the suez canal. **(2mks)**

11. Give two features of the Roman roads by 300 AD. **(2mks)**

12. State the main contribution of the discovery of chroloform in the field of medicine. **(1mk)**

13. Give two ways in which the constitution of Kenya guarantees the rule of law. **(2mks)**

14. Identify two developmental rights of a child. **(1mk)**

15. State two characteristics of human rights. **(2mks)**

16. Give one reason why human rights are important. **(1mk)**

17. Identify the head of a county in Kenya. **(1mk)**

SECTION B

18. (a) State three characteristics of microlithics tools used by the late stone age period. **(3mks)**

(b) Explain six problems faced by early humans in hunting and gathering activities. **(12mks)**

19.(a) State five disadvantages of road transport. **(5mks)**

(b) Explain five negative impacts of modern means of communication. **(10mks)**

20.(a) Identify three ways in which water was used in industries during the 18th century**.(3mks)**

(b) Explain six social effects of the industrial revolution in Europe during the 18th century **(12mks)**

SECTION C: 30 MARKS

21.(a) Give three factors that led to the growth of the Buganda kingdom. **(3mks)**

(b) Describe the political organization of the Asante kingdom**.** **(12mks)**

22.(a) Identify three ways in which Direct democracy is exercised in Kenya. **(3mks)**

(b) Explain six features of Kenya's independence constitution**.** **(12mks)**

FORM 3 ENTRY EXAMINATIONS

SERIES 2

GEOGRAPHY

TIME: 2½ HOURS

NAME…… ADM NO; …….

CLASS…… DATE…….

SECTION A: (25MARKS)

Answer All Questions In This Section In The Spaces Provided

1. a) i)What is environment in Geography **(2mks)**

b)i) Explain how Geography is related to medicine **(2mks)**

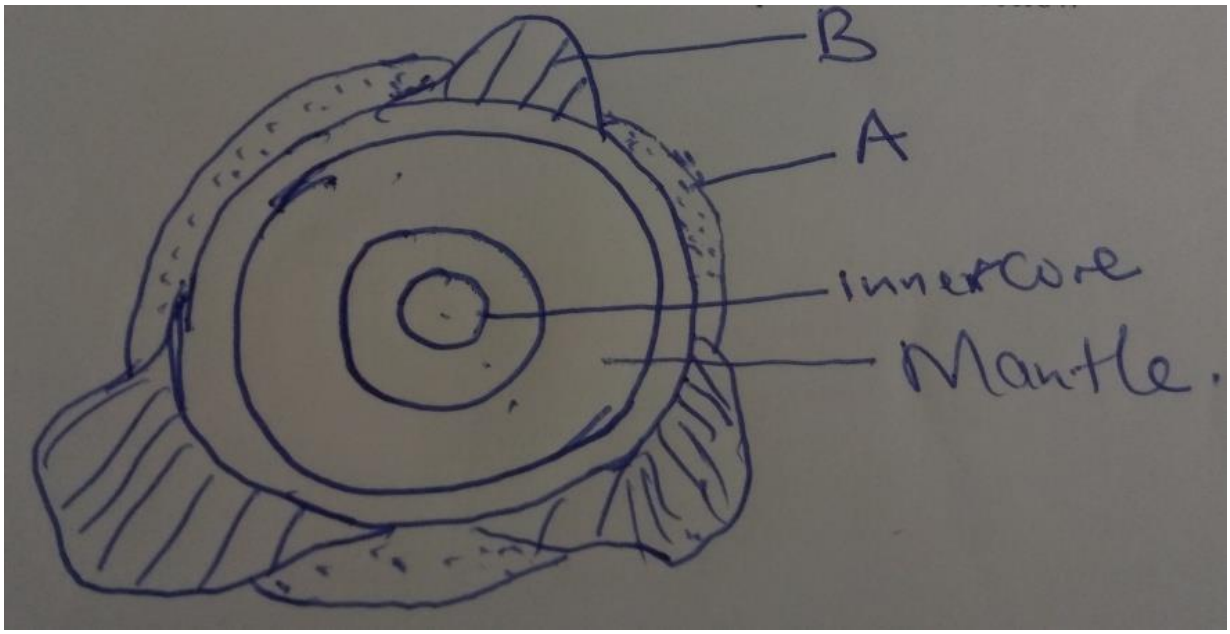
2. a)State four reasons why it is important to study Geography **(4mks)**

b) Define the Geomorphology **(2mks)**

a)Describe the formation of Lava plateau **(4mks)**

b) Give one example of a Lava plateau in Kenya **(1mk)**

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



a)Name the part labelled **(2mks)**

A-

B-

b)Give three characteristics of outercore **(3mks)**

4. a)Define the term rock. **(2mks)**

b)Name three types of igneous rocks **(3mks)**

Section B : Answer Question 6 Any Other Two In This Section (75mks)

5. a) The table below represents rainfall and temperature figures for a town in Africa . use it to answer the questions that follow

Month	J	F	M	A	M	J	J	A	S	O	N	D
Temp (0^0C)	27	28	28	28	27	25	25	24	25	26	27	26
Rainfall (mm)	25	38	99	140	277	439	277	69	142	201	71	25

i) Using a scale , 1cm represent 50mm, draw a bar graph to represent the rainfall data **(7mks)**

ii) Calculate the annual range of temperature for the town **(2mks)**

b) Outline three characteristics of the tropical continental climate **(3mks)**

c) With aid of diagram, show how variation in altitude have brought zones of Natural vegetation on Mt. Kenya **(5mks)**

d) i) Student from a school in Murang'a carried out a field study at Mt. Kenya forest. Outline two hypotheses for their study. **(2mks)**

ii)What are the advantages of studying forests through field work. **(4mks)**

iii)what problems are they likely to encounter in the field **(2mks)**

6. a)i) What is earth movement **(2mks)**

ii) Give three forces that are responsible for lateral earth movements **(3mks)**

iii) Give 3 main examples of major tectonic plates **(3mks)**

b) i)Name three Dormant volcanoes in East Africa **(3mks)**

ii)Give other two types of volcanoes apart from dormant volcano **(2mks)**

iii) Explain the significance of vulcanicity **(10mks)**

c) Give any two causes of earthquakes **(2mks)**

7. a) Give any two uses of soda ash **(2mks)**

b) Explain the importance of soda ash /trona to the economy of Kenya **(10mks)**

c) Outline the problems facing Soda Ash /trona mining in Kenya **(3mks)**

d) i) Give two uses of diamond **(2mks)**

ii)Explain how transport influences the exploitation of minerals **(2mks)**

e)Explain three benefits of petroleum production to the economies of OPEC (Oil Producing & Exporting Countries) **(6mks)**

8. a) Name one fold mountain **(1mk)**

i) Asia –

ii) North America -

b) i) Apart from fold mountains name 3 other features resulting from folding **(3mks)**

c) Your to carry out field study on faulting in Rift valley

i)Name 4 features that you would identify which are as result of faulting **(4mks)**

ii) Apart from using secondary sources, state five other ways you would prepare for field study **(5mks**

ii) Explain the significance of fold mountain to human activities **(8mks)**

d) Name three types of fault you are likely to identify **(3mks)**

FORM 3 ENTRY EXAMINATIONS

SERIES 2

ENGLISH

TIME: 2½ HOURS

NAME…… ADM NO; …….

CLASS…… DATE…….

INSTRUCTIONS TO CANDIDATES

(a) *Write your name, admission number and school in the spaces provided at the top of the page.*

(b) *Write the date of the examination in the spaces provided above.*

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

(d) *Students should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.*

(e) *Ensure your work is neat.*

FOR EXAMINER'S USE ONLY

QUESTION	MAXIMUM SCORE	STUDENT'S SCORE
1. FUNCTIONAL WRITING	20	
2. CLOZE TEST	10	
3. COMPREHENSION	20	
4. ORAL SKILLS	20	
5. POETRY	10	
6. GRAMMAR	20	
TOTAL	100	

1. FUNCTIONAL WRITING (20MKS)

Imagine you have met a friend in a supermarket who, for five years used to be a close friend to you in secondary school. You two got separated immediately after you sat for K.C.S.E examination. Write the dialogue you hold from the time you meet to the time you part.

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2. CLOZE TEST (10MKS)

Fill in each of the blank spaces in the following passage with the most appropriate word

Inter religious leaders have called on the government to involve them 1……..sensitizing faithful to take up Covid – 19 vaccines. This, 2…….say, will help meet the 10 million vaccination target set 3……..the Health Ministry.

4…….Christian and Muslim leaders said they would use informal and 5……channels to encourage followers to 6…….the jabs.

"I stand on the 7……..every Sunday to inspire and pray for the faithful. What if I add messages to encourage 8……..uptake?" said Moses Shiribwa Smith, former regional coordinator of the National Council of Churches in Kenya (NCCK), Western region. "As a religious leader, 9……want to see people lead 10……lives to continue worshipping God," he added.

3. Comprehension (20mks)

Read the following comprehension passage and then answer the questions that follow.

A BILL OF RIGHTS

A bill of rights is a written list of rights and freedoms of citizens of a country. It is designed to recognize, protect and preserve the dignity of people. It is therefore an important part of Kenya's constitution. The bill is a guidance for ensuring that no citizen is treated unfairly. The right to life is a basic right. Every person has a right to live. The life of a person begins at conception. Abortion is, therefore not permitted except in cases where the life of a mother is in danger. It is therefore a crime to take another person's life.

Every person is equal before the law, and has the right to equal protection and benefit of the law. Before the law, there should be no difference with regard to a person's sex, religion, political affiliation, race or status in society. The law should be applied in all cases equally. For instance, if the law states that the punishment for stealing is imprisonment, it should be applied in all cases whether the person who has stolen is a Christian or Hindu, male or female, master or servant.

The state shall not discriminate directly or indirectly against any person on any basis including race, sex, pregnancy, marital status, health status, ethnic or social origin, colour, age, disability, religion, conscience, belief, culture, dress, language or birth. People should not discriminate directly or indirectly against others on the same basis. For instance, if a student performs well in the Kenya Certificate of Primary Education (KCPE) they should not be denied admission to secondary school because of their religion, race or culture. The state will therefore, take specific measures to ensure that people are not discriminated against.

Women and men have the right to equal treatment including the right to equal opportunities in political, economic, cultural and social activities. In addition, both men and women have an equal right to inherit, have access to and manage property. Any law, culture, custom or tradition that undermines the dignity, welfare, interest or status of women or men is prohibited. For instance, although in some cultures all property including land belongs to the men, the constitution states that women have a right to own property too. By law, women in such a community can insist on their right to own land and property.

In the proposed revised constitution of Kenya, the state shall take measures to ensure that women and their rights are protected. The state shall also provide reasonable facilities and opportunities to ensure that women realize their full potential and advance in the society.

The youth constitute an important part of the society and are entitled to enjoy all rights and freedoms set out in the bill of rights, taking into account their unique needs. The state shall try to ensure that the youth have access to quality and relevant education, training and employment. The youth shall also be given a chance to participate in governance. The state shall also ensure that the youth have enough chances in the social, political economic as well as other areas of national life. The youth, like other citizens have a right to associate with others to further their interests within the limits of the law. They are also entitled to protection from any culture, custom, tradition or practice that undermines their dignity or quality of life. They should lead a life free from exploitation, discrimination or abuse.

It is the duty of every state to observe respect, protect, promote and fulfill the rights and freedoms of the citizens. Laws, policies and other measures should be used to ensure that these rights and freedoms are recognized. A person has the right to complain to the commission of human rights and administrative justice, and take legal action if the rights or freedom are violated, infringed or denied.

Questions

i. What is a bill of rights? **(1mk)**

……

……

ii. Explain the purpose of the bill of rights? **(2mk)**

……

……

……

iii. State two rights mentioned in the passage? **(2mks)**

……

……

iv. In what ways, according to the Bill of Rights, are women treated as equal to men? **(3mks)**

……

……

……

……

v. Explain how the state can ensure that the rights and freedoms of the youth are safeguarded? **(3mks)**

……

……

……

……

vi. Explain, using an example how you can be discriminated against because of your age religion or sex? **(3mks)**

……

……

……

……

vii. To whom can people complain if their rights are violated or denied? **(1mk)**

……

viii. Explain the meaning of the following words as used in the passage **(5mks)**

a. Dignity

b. Promote

c. Infringed

d. Violated

e. Unique

4. ORAL SKILLS (20mks)

I miss you in the morning
I miss you late at night
Just to think about you
Is my joy and my delight
I can't wait to see you;
Please hurry and come back
You always make me happy;
You have that special knack

QUESTIONS

a. Identify **two** examples of rhyming words used in this poem. **(2mks)**

……

……

b. Apart from rhyme Identify and illustrate **two** sound patterns used in this poem**.** **(4mks)**

……

……

……

c. Write down words pronounced the same as the following words. **(5 mks)**

(i) Cell …….

(ii) Die …….

(iii) Flour …….

(iv) Idle …….

(v) Knight …….

d. Underline the silent letters in the following words. **(5mks)**

(i) Bomb

(ii) Ghost

(iii) When

(iv) Knot

(v) Wreck

e. For each of the words below, write two sentences to bring out different meanings of the word.

(i) Refuse **(2 marks)**

……

……

……

(ii) Contest **(2 marks)**

……

……

……

5. POETRY (10 marks)

AFRICA

Cloudless and regal burns the day
Over the sand of Africa.

Parrots curl their golden feet
Round ebony boughs, and drink the heat,
While the lizard sees from his limestone ledge,
The burnt air dance at the precipice edge.

Four thousand feet in the sky's pale arch
The lazy armies of clouds march;
Four thousand feet in the plain below
Straw huts drowse and the stream winds slow.

Lilies and crocodiles flower in the mud,
And teak logs spin in the wayward flood.

Like noon's own spirit burns the day
Over the beaches of Africa.

QUESTIONS

a. Identify three pairs of rhyming words **(3mks)**

……

……

……

b. Give any two lines or phrases that are repeated in the poem. **(2mks)**

……

……

……

c. Give the meaning of the following words **(3mks)**

regal (stanza 1)……..

ebony(stanza 2)……..

ledge (stanza 2)……..

d. Give an example of personification**.** **(1 mk)**

……

……

e. What do you think is the meaning of the line: **"Lilies and crocodiles flower in the mud"? (2 mks)**

……

……

……

……

6. GRAMMAR (20MKS)

a. The sentences below are erroneous. Rewrite by correcting the errors. (4mks)

i. The playfull puppy ran besides me.

……

……

……

ii. The boy ran passed me.

……

……

……

iii. I will not come late untill late in the knight.

……

……

……

iv. The two restlers are arguieng again in the ring.

……

……

……

b. **Rewrite the sentences below according to the instructions given without changing their meanings. (5mks)**

i. I don't know if a person has glue or not.

Use "anyone"

……

……

ii. He is the father of my wife.

Begin: He is my…

……

……

iii. I go to Malaysia at a time like this next week.

Correct the error

……

……

iv. That was the biggest mistake she made.

Rewrite to end: ……made!

……

……

(i) I **have not** seen him for three days now.

Shorten the underlined words.

……

……

c. Choose the more suitable option from the bracket to fill in the blank space. **(5mks)**

i. …….stars are there in the sky? (how many, how much)

ii. …….water is in the lake? (how many, how much)

iii. There is ……at the gate. (anything, something)

iv. She met a…….of tourists on her way to school. (flock, tribe)

v. There was a …….of cats at the beach. (army, nuisance)

d. Fill in the most suitable preposition. **(3mks)**

i. I feel really sorry …….his daughter.

ii. I have to be polite …… everyone.

iii. You shouldn't be angry …….her for revealing your secret.

e. **Put the most suitable form of the word in brackets.** **(3mks)**

i. The cat chased its tail ……. (frantic)

ii. Today another probe was …….launched. (success)

iii. In their eyes shone …… (happy)

FORM 3 ENTRY EXAMINATIONS

SERIES 2

KISWAHILI

TIME: 2½ HOURS

NAME…… ADM NO; …….

CLASS…… DATE…….

MAAGIZO:

I. Andika jina lako na nambari yako katika nafasi ulizoachiwa.

II. Tia sahihi yako na uandike tarehe ya mtihani.

III. Jibu maswali yote katika karatasi hii.

KWA MATUMIZI YA MTIHANI PEKEE

SWALI	UPEO	ALAMA
INSHA	20	
UFAHAMU	10	
MATUMIZI YA LUGHA	40	
ISIMUJAMII	10	
FASIHI SIMULIZI	10	
SHAIRI	10	

KIDATO CHA PILI

SEHEMU YA A INSHA **ALAMA 20**

Andika kisa kitakachomalizika kwa maneno:

….Hapo ndipo nilipong'amua kuwa watu wenye ukarimu na utu wapo licha ya kuwa ni nadra kupatikana. Mja huyo aliahidi kumtua mzigo uliomlemea.

SEHEMU YA 'B' UFAHAMU **ALAMA 10**

Soma makala yafuatayo kisha ujibu maswali yanayofuata.

Mtaa wa Kisumu Ndogo, viungani mwa jiji la Mombasa. Mgonjwa amekuwa mgonjwa malana. Jamaa na marafiki walikuwa wameambiwa hospitali, "Mrejesheni nyumbani." Kwa hiyo hamna matumaini tena ya kupata ahueni. Huyu ni wa kukatika roho dakika yoyote kuanzia sasa. Yu tayari kukutana na Muumba wake. Wamemrejesha kwenye kibanda chake *kilichotalizwa* udongo na kuezekwa makuti machakavu. Amepotelea kwenye kitanda chake cha kamba. Sharti utazame kwa makini ndipo ubaini kwamba palikuwa na mtu pale kitandani. Kabakia sindano kwa ukondefu. Baadhi ya watu waliozika imani na huruma zao, watu wenye kejeli zilizopindukia, wanamwita mbu.

Ukutani kumetandikwa fremu yenye picha yake alipokuwa bado na siha yake. Alipokuwa anaikanyanga ardhi mpaka inatetemeka, wakati alipokuwa akisakatia kadanda timu ya Bandari FC kwenye Uwanja wa Manispaa na kote nchini. Wakati alipoichezea timu ya taifa Harambee Stars wakati alipotamba jijini Mombasa. Pale kila jicho jijini ilipomtumbulia yeye. Wakati kila ulimi ukimsifia na kila sikio kupenda kusikia jina lake, Otii.

Jamaa zake si watu wa kusibiri mvua kunyesha ndipo waanze kutafuta pahala pa kununua mwavuli. Wanaamini juu ya upangaji wa mikakati mapema. Kwa hivyo, wamekutana jioni hiyo kando ya kitanda chake kupanga mikakati ya mazishi.

"Anzeni mapema kuchangisha fedha za kusafirisha maiti," alisema mwenyekiti wa Chama cha Watu wa Nyumbani. "Tutahitaji kuchangisha fedha za kununua jeneza, mavazi ya kumvisha maiti pamoja na fedha za kukodisha magari ya kuchukua maiti na waombelezaji kutoka hapa Kisumu Ndogo, Mombasa, hadi Sidindi karibu na Kisumu Kubwa, Kisumu asilia.

"Nizikeni hapa," anasema muwele. "Gharama zote hizo za kunipeleka Sidindi za nini?"

Kimya kinajiri.

"Unasikia anasema nini?" Anakumbusha mwanachama mmoja.

"Gharama hizo ni zetu si zake," anajibu katibu wa chama. "Yeye atuachie tupange mambo. Anahaha nini? Yeye si mbwa wa kutupwa barabarani au mwituni akishafariki bwana. Lazima tumzike nyumbani Sidindi. Hatuwezi kukiuka mila na ada zetu kwa kumwachia mwenzetu kutupiliwa mbali kana kwamba hana kwao."

"Nasema nizikeni hapa."

"Unaskia vile anavyosema."

"Kauli yake si muhimu," mwenyekiti alisema. "Katika mila na desturi zetu kauli ya marehemu si chochote, si lolote. Muhimu ni kwamba sharti mtu wa kwetu azikwe nyumbani."

Wanapomtazama Otii wanaona anatokwa na chozi kwenye jicho moja lililokuwa halijafunikwa na shuka. Chozi linadondoka taratibu na kuteremikia kwenye shavu lake kavu kasha kumalizikia kwenye shuka.

Anapiga chafya na kukohoa mara kadhaa.

"Basi kila mtu anajaribu awezavyo kukusanya fedha za kusafirisha maiti. Sawa?"

"Sawa," wanasema wote sawia.

MASWALI.

1. Thibitisha kuwa anayerejelewa katika makala haya alikuwa fukara. **Alama 1**

……

……

2. Otii alikuwa Maarufu sana kabla ya kuwa mgonjwa. Fafanua. **Alama 2**

……

……

……

3. Eleza maana ya: "Jamaa zake si watu wa kusubiri mvua kunyesha ndipo waanze kutafuta pahala pa kununua mwavuli". **Alama 1**

……

……

4. Chama cha watu wa nyumbani walifanya kinyume na matakwa ya Otii. Eleza. **Alama 1**

……

……

5. Taja sifa zozote mbili zinazojitokeza za wahusika wanaopanga mikakati ya mazishi. **Alama 1**

……

……

6. Andika na ueleze misemo yoyote miwili iliyotumika hatika hadithi hii. **Alama 2**

……

……

7. Eleza maana ya msamiati. (i) Kilichotalizwa

(ii) Muwele **Alama 2**

SEHEMU YA 'C' SARUFI NA MATUMIZI YA LUGHAALAMA 40

1. Taja sauti zenye sifa zifuatazo

(a) Kikwamizo ghuna cha menoni

(b) Irabu ya nyuma kati

(c) Kiyeyusho cha midomo

Alama 3

2. Kwa kutoa mifano tofautisha kati ya mizizi funge na mizizi huru.

Alama 2

3. Andika kwa ukubwa wingi:

Mji mkubwa umejengwa nyumba za kifahari.

Alama 2

4. Yakinisha sentensi ifuatayo;

Usipojikakamua kiume hutafaulu katika mitihani.

Alama 1

5. Tita ni la kuni ilhali _____ ni kwa mizigo. **Alama 1**

6. Weka nomino zifuatazo katika ngeli zake. **Alama 2**

(i) Kijakazi

(ii) Petroli

7. Kwa kutoa mfano, onyesha matumizi matatu ya kiakifishi:

Parandesi **Alama 3**

8. Andiika sentensi ifuatayo katika usemi wa taarifa.

"Leo jioni tutamtembelea shangazi yako jijini". Mama akamwambia

Alama 2

9. Changanua sentensi ifuatayo kwa mstari.

Sisi wawili tutatuzwa tuzo. **Alama 2**

10. Tunga sentensi katika wakati uliopita hali timilifu. **Alama 2**

11. Ainisha mofimu katika neno:

Apikaye **Alama 3**

12. Tunga sentensi ukitumia vivumishi vinavyotoa maana zifuatazo: **Alama 2**

(i) Kutobagua

(ii) Kutobakiza

13. Unda nomino dhahania kutokana na vitenzi

(i) Safari

(ii) Lima **Alama 2**

14. Tunga sentensi ukitumia kivumishi kisisitizi cha mbali kidogo ukitumia nomino ya ngeli ya I-ZI

Alama 2

15. Tunga sentensi ukitumia kihusishi chochote cha wakati **Alama 2**

16. Kamilisha jedwali. **Alama 2**

Kutenda	Kutendesha	Kutendeshea
Cheza	_____	_____
Lia	_____	_____

17. Banisha vitenzi katika sentensi;

Babu yangu alikuwa akisafiri jana jioni

Alama 2

18. Weka shadda kwenye maneno yafuatayo ili kubadilisha maana kwenye mabano.

(i) Walakini (dosari)

(ii) Barabara (shwari)

Alama 2

19. Unganisha sentensi ifuatayo ili kupata sentensi ambatano

Walimu hao walipewa uhamisho.

Walimu wengine hawakupewa

Alama 2

20. Andika katika wingi

Ndizi hili langu limeoza. **Alama1**

SEHEMU YA 'D' ISUMUJAMII **ALAMA 10**

Soma kifungu kifuatacho kisha ujibu maswali yanayofuata.

Niaje Wasee! Ma likizo ndiyo hayo yameingia. Round hii tumefunga siku mob. Mambo imebadilika. Tukiwa ma holiday NI POA KUCHILL ili kuepukana na ball au magonjwa.

1. Tambua sajili ya makala uliyosoma. **Alama2**

……

……

2. Eleza sifa sita za sajili uliyotaja hapo juu. **Alama 6**

……

……

……

……

……

……

Alama 2

3. Istilahi zifuatazo za isimujamii zina maana gani?

a. Lahaja

……

b. Uwililugha

……

SEHEMU YA E: FASIHI SIMULIZI **ALAMA 10**

1. (a) Eleza maana ya:

(i) Ushairi simulizi **Alama1**

(ii) Taja vipera viwili vya Ushairi simulizi **Alama2**

……

……

2. Mbolezi huwa na umuhimu katika jamii. Eleza umuhimu wake kwa hoja tatu. **Alama 3**

……

……

……

3. Fafanua aina zifuatazo za hadithi. **Alama 2**

(i) Mighani

(ii) Hurafa

4. Eleza aina mbili za hadhira. **Alama 2**

SEHEMU YA F: USHAIRI — ALAMA 10

Soma ushairi ufuatao kisha ujibu maswali

Dunia yetu dunia, watu wanakufitini,
Dunia huna udhia, watu wanakulaani,
Dunia huna hatia, wabebeshwe kila zani,
Dunia unaonewa, umetenda kosa gani!

Dunia umenyamaza, umetua kwa makini
Dunia vitu, watu wanataka nini?
Dunia wanakucheza, binadamu maliani,
Dunia unaonewa, umetenda kosa gani!

Dunia utu akose, huvutia mdomoni.
Dunia ebu waase, hao watu mafatani,
Dunia chuki upuse, munipate afueni,
Dunia unaonewa, umetenda kosa gani?

Dunia pewa lawama, za uongo si yakini,
Dunia wanakusema, ni manjunju si raini,
Dunia huna hasama, waja ndio kisirani
Dunia unaonewa,umetenda kosa gani!

Dunia kuharibika, hayo amezusha nani?
Dunia watu humaka, hao wanaokuhini
Dunia umejazia, kila tunu ya thamani
Dunia unaonewa, umetenda kosa gani?

MASWALI

1. Taja sifa zozote mbili za binadamu kama zinavyojitokeza katika shairi. **Alama 2**

……

……

2. Hii ni shairi ya aina gani kwa mujibu wa aina mbili kuu za mashairi**.** **Alama 1**

……

3. Eleza umbo la ubeti wa tatu **Alama 4**

……

……

……

……

4. Shairi hili linaweza kuwekwa katika bahari mbalimbali. Zitaje bahari mbili. **Alama2**

……

5. Eleza maana ya msamiati ufuatao kama ulifyotumika katika shairi.

(i) Mafatani **Alama 1**

……

……

……

FORM 3 ENTRY EXAMINATIONS

SERIES 2

MATHEMATICS

TIME: 2½ HOURS

NAME…… ADM NO; …….

CLASS…… DATE…….

INSTRUCTIONS TO CANDIDATES

1. *Write your name and admission number in the spaces provided at the top of this page.*
2. *This paper consists of two sections:* **Section I and Section II.**
3. *Answer **all** questions in* **section I** and Section **II.**
4. *Show all the steps in your calculations, giving your answers at each stage in the spaces below each question.*
5. *Marks may be given for correct working even if the answer is wrong.*
6. ***KNEC** Mathematical tables may be used.*

For Examiner's Use Only

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Total

17	18	19	20	21

Grand Total

SECTION I (50 Marks)

Answer all the questions in this section

1. Evaluate $\frac{-4\ of\ (-4+-5\div 15)+-3-4\div 2}{84\div -7+3--5}$ **(3 marks)**

2. Muya had $6\frac{2}{3}$ hectares piece of land. He donated $\frac{7}{8}$ hectare to a school and $1\frac{1}{2}$ hectare to a children home .The rest of the land was shared equally between the son and the daughter. Find the size of the land that each child got**.** **(3 marks)**

3. Without using mathematical table or calculate evaluate $\frac{\mathbf{1.9\times 0.032}}{\mathbf{20\times 0.0038}}$ **(3 marks**)

4. The shopping centres Miseleni and Katheka are 17 km apart. Kioko walks towards Miseleni at an average speed of 9 km/h. Forty-five minutes later Cherono cycles from Katheka towards Miseleni at an average speed of 30 km/h. Calculate the distance from Miseleni when Cherono catches up with Kioko**.** **(4 marks)**

5. Use logarithm tables to **evaluate** **(4 marks)**

$$\frac{1721^2 \times \sqrt{0.024}}{321}$$

6. Solve for the value of x which satisfy the equation; **(3 marks)**

$$32^{x-3} \times 8^{x+4} = 64 \times 2^x$$

7. Moraa spends a total of Ksh. 970 on buying 3 text books and 5 pens. If she had bought 2 textbooks and 8 pens, she would have saved Ksh. 90. Find the cost of one text book. **(3 marks)**

8. A piece of wire is to be divided into 20cm or 24cm or 28cm for construction and leave 15 cm piece .Find the shortest length of the **wire** **(3 marks)**

9. Given that $3x$ is an acute angle and $sin\ 3x\ =\ cos\ 2x$ find the value of x. **(3 marks)**

10. A retailer buys 30 boxes of strawberries at sh. 30 each and sells 27 boxes at 30% profit. How much profit does he make**?** **(3 marks)**

11. Factorize then simplify **(3 marks)**

$$\frac{2bx - 2by + 3ax - 3ay}{3a + 2b}$$

12. The base of an open rectangular tank is 3.2m, by 2.8 m .Its height is 2.4m .It contains water to a depth of 1.8m. Calculate the surface area inside the tank that is not in contact with water. **(3 marks)**

13. An empty 300 ml bottle has a mass of 270g. Calculate the mass of the bottle when it is full of a liquid whose density is $1.1 gcm^{-3}$ **(3 marks)**

14. Evaluate the expression below using reciprocal tables and give your answer to two decimal places. **(3 marks)**

$$\frac{6}{321}+\frac{2}{0.042}$$

15. By factor method find the cube root of the following;

a) $\sqrt[3]{\mathbf{8}}$ **(1 mark)**

b) $\sqrt[3]{64}$ **(2 marks)**

16. Simplify the expression **(3 marks)**

$$\frac{2x^2+3x-2}{x^2-4}$$

SECTION II (50 Marks)

Answer all the questions in the spaces provided

17. The height in centimeters of 18 form one students are shown below

132	132	156	147	162	168
174	141	136	161	148	152
140	174	162	143	154	174

a) Using a class width of 10 and starting with a class of **130 – 139** as the first class make a frequency distribution **table** **(2 marks)**

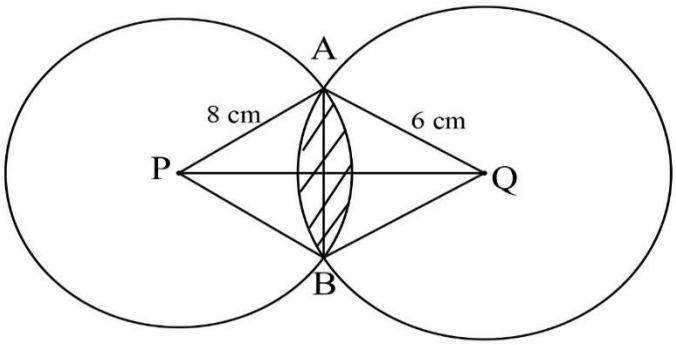
b) State the modal class **(1 mark)**

c) Modify the above table and calculate

i. Mean height **(4 marks)**

ii. Median height **(3 marks)**

18. The figure below shows two circle of radii 8cm and 6cm with center P and Q respectively.



The circles intersect at point A and B. The lines PQ and AB are perpendicular to each other and meet at X. If the common chord AB is 9 cm, calculate

a) $\angle AQB$ **(2 marks)**

b) $\angle APB$ **(2 marks)**

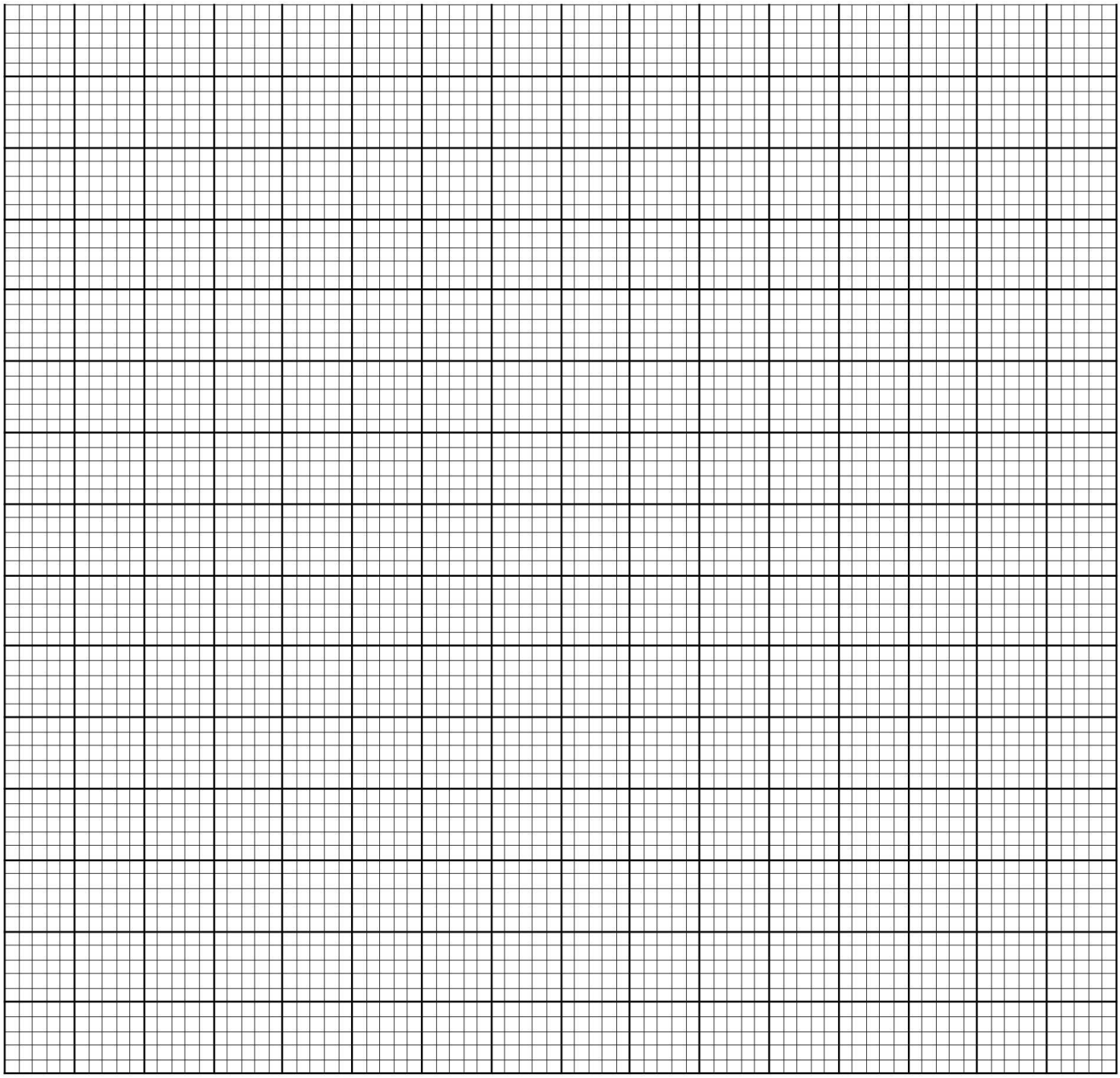
c) Area of segment whose centre is P **(2 marks)**

d) Area of segment whose centre is Q **(2 marks)**

e) Area of the region between the intersecting circles **(2 marks)**

19. A kite has vertices $A(1,1), B(6,2), C(6,6)$ and $D(2,6)$.

a) Draw the kite ABCD**.** **(1 mark)**



b) On the same axes draw,

i. $A'B'C'D'$ the image of ABCD under a rotation of a positive quarter turn about the origin. State its coordinates. **(3 marks)**

ii. $A''B''C''D''$ the image of $A'B'C'D'$ under a reflection in the line $y - x = 0$. State its coordinates. **(3 marks)**

iii. $A'''B'''C'''D'''$ the image of $A''B''C''D''$ under enlargement of scale factor -0.5 about the origin. State its coordinates. **(3 marks)**

20. (a) A line L passes through the points $A(-2,3)$ and $B(-1,6)$

i. Find the gradient of the line L **(1 mark)**

ii. Find the equation of the line L in the form $y = mx + c$ **(2 marks)**

(b) A second line P is perpendicular to line L at point $(-1,6)$ .Find the equation of line P in the form $ax + by = c$ **(2 marks)**

(c) Given that a third line Q is parallel to line L and passes through point $(1,2)$. Find the equation of lines Q in the form $ax + by = c$ **(2 marks)**

(d) Find the point of intersection of lines P and **Q** **(3 marks)**

21. On the graph provided draw the region that satisfies the following linear inequalities.

(10 marks)

$2x - y \geq -4$

$x + y \leq 4$

$y \geq 0$

$x < 3$

FORM 3 ENTRY EXAMINATIONS

SERIES 2

COMPUTER STUDIES

TIME: 2 HOURS

NAME…… ADM NO; …….

CLASS…… DATE…….

QUESTIONS

1. a) Distinguish between a **computer drive** and **computer driver**. **(2marks)**

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b) Define the term **peripheral devices**. **(2marks)**

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c) Apart from keyboard and mouse, give **five** devices connected to the system unit. **(5marks)**

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d) State **two peripheral** devices connected to the computer via PS2. **(2marks)**

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e) Jane encountered desktop computer with the following features

- *3.0 USB ports*
- *4.0 GB primary storage*
- *19" TFT VDU*
- *500 SATA HDD*
- *Linux 7.1*
- *AVG antivirus*

i) Give **three** reasons for wide use of USB gadgets in the society today. **(3marks)**

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ii) What is the meaning of the following specifications : (4marks)

- 4.0 GB primary storage

-19" TFT VDU

- 500 SATA HDD

-Linux 7.1

2) i) Give **six factors** to consider when selecting an **OS** to install in your computer. **(6marks)**

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ii) State **three** advantages of using command-line based operating system when working with a computer. **(3marks)**

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3. Describe **three symptoms** of a computer infected by virus. **(3marks)**

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4. i) Define the term **utility software**. **(2marks)**

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ii) Give **four** examples of utility software. **(4marks)**

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5. State **four** properties that an operating system displays about a file. **(4marks)**

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6. a) Define a **microcomputer**. **(2marks)**

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b) State **five** reasons for the increased use of microcomputers in government offices **(5marks)**

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7. State **four** facilities that will ensure proper ventilation in a computer laboratory.**(4marks)**

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8. State **three** advantages of Optical Character readers or recognition as a method of input. **(3mks]**

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9. a) What is a computer **motherboard**? **(2marks)**

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(b) State any **four** components found or attached on the computer motherboard. **(4marks)**

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10. State **four** advantages of Liquid crystal display (LCD) monitors over cathode ray tube monitors as used in computers. **(3marks)**

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11. State three ways in which an operating system secures a computer system. **(3marks)**

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8. List down any **four** hardware components you can add or upgrade in a computer system. **(4mks)**

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9. i) Briefly explain the following terms: **(10marks)**

Cell

_____

_____

Range

_____

_____

Label

_____

_____

Value

_____

_____

Function

_____

_____

_____

ii) Use the sample worksheet provided to answer the questions below.

	A	B	C	D	E	F
1	Items	Jan	Feb	Mar	April	Total
2	Fees	400	460	400	400	
3	Food	300	350	305	270	
4	Electricity	100	100	100	100	
5	Fuel	150	150	150	150	
6	Transport	380	270	150	300	
7	Total					

a) Write down the **data type** that is stored in cell C5. **(1mark)**

_____

_____

b) What cell contains the data item representing transport for the month of February? **(1mark)**

_____

_____

c) Write down the formula that may be used to compute the total in cell F6. **(2marks)**

_____

_____

d) Name any **two** types of **graphs** that may be supported by spreadsheets. **(1mark)**

_____

_____

_____

10. a) Describe **three** comparisons of traditional method of typing a document on a typewriter against using a word processor. **(6marks)**

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b) List **two** arithmetic operations that can be performed on a row of numeric data in a word processing table. **(2marks)**

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c) Explain the following terms as used in word processing. **(3marks)**

Indenting

_____

_____

Alignment

_____

_____

Word wrap

_____

_____

d) List four text formatting features of a word processor. **(4marks)**

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FORM 3 ENTRY EXAMINATIONS

SERIES 2

HOME-SCIENCE

TIME: 2 HOURS

NAME…… ADM NO; …….

CLASS…… DATE…….

INSTRUCTIONS

Answer all the questions in section A and B and any two questions in section C.

SECTION A – 40 MARKS

1.Give the correct meaning of the following:-

(i) Stain

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(ii) Suction **(2m)**

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2. List down three known causes of food spoilage. **(3m)**

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3. Outline three functions of water in the body. **(3m)**

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4. Mention three uses of mineral fibres. **(3m)**

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5. Highlight on three qualities of a well made seam. **(3m)**

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6. Give two examples of fat soluble and two examples of water soluble vitamins

Fat soluble	water soluble
(i)	(i)
(ii)	(ii)

7. State three reasons for maintaining a clean drainage. **(3m)**

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8. Give two negative effects of using antiperspirants. **(2mks)**

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9. Suggest 3 ways of preventing fractures. **(3m)**

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10. Point out three dangers of poor sanitation. **(3mks)**

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11. Identify three precautionary measures to take when cleaning stainless steel**.** **(3m)**

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12. Give two advantages of cooking with electricity. **(2m)**

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13. Three points to remember when darning articles include**:-** **(3m)**

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14. Highlight three points to observe when using disinfectant**s.** **(3m)**

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15. Give two qualities of a good **advertisement** **(2m)**

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SECTION B – (20MARKS)

(COMPULSORY)

16. You have planned to spend your Saturday afternoon at home.

(a) Describe how you will launder your loosely coloured cotton T-shirt **(7mks)**

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(b) Discuss the steps you will follow in caring for a used duster**.** **(5mks)**

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(c) Give the procedure for thorough cleaning a silver tray**.** **(4mks)**

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(d) Explain how you will thorough clean a calabash. **(4mks)**

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SECTION C – (40MARKS)

Answer only two questions from this section, in the spaces provided.

17(a) Outline five properties that make cotton fabric suitable for nightwear**.** **(5m)**

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(b) List down five advantages of using a refrigerator a home**.** **(5m)**

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(c) Give 3 advantages and two (2) disadvantages of using commercial patterns**.** **(5m).**

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d) State and explain five qualities of a fabric for making an apron **(5m)**

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1**8(a)** Point out five characteristics of soft water. **(5m)**

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(b) State five factors to consider when selecting storage equipment for laundry. **(5m)**

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(c) By use of relevant, clear diagrams describe how to work out an open seam**.** **(7m)**

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(d) Discuss three ways of draining water waste from a building**.** **(3m)**

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19(a) Give 5 points on the care of a sewing machine**.** **(5m)**

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(b) State five qualities of a well made ironing board**.** **(5m)**

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(c) Name three embroidery and two neatening stitches and sketch each of them**.** **(5m)**

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(d) Suggest five appropriate measures to take when handling a child with kwashiorkor. **(5m)**

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FORM 3 ENTRY EXAMINATIONS

SERIES 2

FRENCH

TIME: 2 HOURS

NAME……. ADM NO; …….

CLASS…… DATE…….

Répondez a toutes les questions

Grammaire

I Ecrivez les phrases correctes en utilisant ‘se faire mal’ ou ‘avoir mal’ **10pts**

1. Ma tète me fait mal

2. Monique a mal à la poitrine

3. Nous avons mal à la gorge

4. Les doigts te font mal

5. Vos dos vous font mal

II Conjuguez les verbes entre parenthèses au passe compose **16pts**

Ex ; je (manger) un gâteau

Hier, j’ai mange un gâteau

1. Mon frère (aller0 chez le dentiste

2. Je (faire) les courses hier après-midi

3. Ma mère et mon père (venir) a la fête de l'école

4. Nous (visiter) les sites extraordinaire pendant le séjour en France

5. Avant d'entrer dans la piscine, les nageurs (se doucher)

6. Les deux petites filles (mourir) de rire

7. Vous (prendre) le cafe ce café le matin avant de partir

8. Je (etre) malade la semaine dernière

III Utilise le COD ou COI convenable 7pts

1. Je cherche les clés

2. Mon ami parle aux touritses

3. Tu prends la douche

4. Maman donne un cadeau à son fils

5. Vous avez acheté la nouvelle voiture.

6. Lucie téléphoné a ses parents

7. Le president parle aux citoyens

IV Conjuguez les verbes modaux approprièment 5pts

1. _____ -vous des légumes et des fruits? (vouloir)

2. Cet élève _____apprendre a être autonome. (pouvoir)

3. Nous _____offrir un voyage a nos parents. (devoir)

4. Tu _____ conduire la voiture? (savoir)

5. Il _____ etre attentive en classe. (falloir)

V Complete these sentences using the demonstrative adjective ce, cette, cet or ces. (10mks)

1. Tu as lu _____ livre de Daniel Pennac?
2. Ce soir, je vais dîner chez _____ voisins d'à côté.
3. _____ femme de Jean-Luc, elle est italienne?
4. _____ fils de ma sœur habitent à Paris.
5. J'adore _____ beaux garçons.
6. Comment s'appelle _____ professeur?
7. Il habite dans _____ grande maison en face de la poste.
8. Je n'aime pas _____ filles
9. J'attends _____ autobus avec impatience.
10. _____ étudiante s'appelle Sylvie.

VI Ecrivez l'adjectif correct comme dans l'exemple 5mks

Ex : Joséphine est élégante. Et napoléon est _____

Napoléon est élégant aussi

1. La chatte est petite et le chien est _____
2. Le bébé est intelligent et la jeune fille est _____
3. Son mari est calme et sa mère est _____
4. Leurs cousins sont brillants et leurs cousines sont _____
5. L'actrice est comique et l'acteur est _____

VII Réécrivez les phrases suivantes en utilisant 'venir de +infinitif 10mks

1. Les finalistes de rugby font la répétition

2. Le président annonce les résultats de l'élection

3. Elle amène son chien au concours

4. Les touristes américains arrivent en ville

5. L'alpiniste fait l'ascension de la montagne

VIII Répondez aux question avec 'y' et 'en' 7mks

1. Ils viennent de la campagne

Non,

2. Margaret et Winnie vont chez le dentiste

Oui,

3. Tu es allé en France

Oui,

4. Vous êtes sortis du bureau?

Oui,

5. Monsieur Diop vient de Dakar

Non,

6. Elle passe par la poste

Oui,

7. Pierre est chez le boulanger

Oui,

IX Réécrivez les phrases en utilisant 'aller +infinitif 10mks

1. Nous voyons le directeur de cette école

2. L'infirmière soigne le petit fils de Malika

3. Ils voyagent en France à Grenoble

4. Le pécheur pèche dans le lac demain matin

5. Je reviens au village après dix ans

Section II dictée 5pts

1

2

3

4

5

Section III Compréhension

Lisez le texte et répondez aux questions

Passage I

Le SIDA

Aujourd'hui, madame Njoroge téléphone le docteur. Mais pourquoi est-ce qu'elle telephone ? Parce que son mari est très malade. Il a le SIDA. Mais qu'est-ce que c'est le SIDA?

C'est le syndrome immunodéficitaire acquis. Le docteur ne décroche pas le cabine téléphonique. Il est très occupe car il y a beaucoup de malades. Madame Njoroge est très impatient et elle s'inquiète. Elle ne veut pas attendre. Soudain, elle entend son mari tousse terriblement. Elle accroche et cours vers lui. Mon Dieu ! Il vomit et sa peau est très sèche. Il a des blessures partout et il est très maigre ! Il gémit de douleur, faites attention ! C'est une maladie terrible le SIDA.

Questions

a) Qui est malade 1pt

b) Ecrivez le mot suivant entier 1mk

SIDA

c) Est-ce que madame Njoroge est patiente? 1mk

d) Donnez trois symptômes du SIDA 3mks

Section IV Rédaction 10mks

Ecrivez une rédaction sur

‘Mon weekend passe’

Or

‘Le voyage que je ne vais pas oublier’

THE END

FOR THE FOLLOWING;

- ✓ONLINE TUITION
- ✓REVISION NOTES
- ✓SCHEMES OF WORK
- ✓SETBOOKS VIDEOS
- ✓TERMLY EXAMS
- ✓QUICK REVISION KITS
- ✓KCSE TOPICALS
- ✓KCSE PREMOCKS
- ✓TOP SCHOOLS PREMOCKS
- ✓JOINT PREMOCKS
- ✓KCSE MOCKS
- ✓TOP SCHOOLS MOCKS
- ✓JOINT MOCKS
- ✓KCSE POSTMOCKS
- ✓TOP SCHOOLS PREDICTIONS
- ✓KCSE PREDICTIONS
- ✓KCSE REVEALED SETS

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