

**GOLDLITE ONLINE SERVICES**  
**TERM 1 2025 OPENER EXAMS FORM 3**  
**ALL SUBJECTS COMBINED**

NAME: ..... ADM NO: ..... CLASS: .....

**OPENER EXAMINATION: TERM 1 2025**

**FORM THREE**

**AGRICULTURE**

**TIME: 1 HOUR 45 MINS**

**INSTRUCTIONS:**

- This paper has two sections; A and B.
- Answer all questions in section A and B in the spaces provided after the question.

**SECTION A: (60 MARKS)**

1. State four methods of applying fertilizers when producing crops. (4 mks)

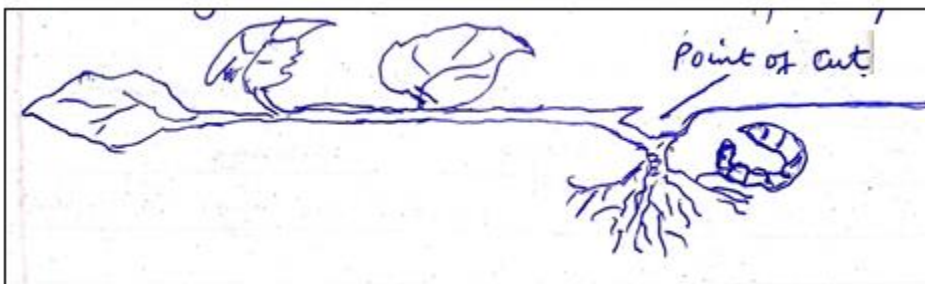
2. State four characteristics of plants used for green manure. (4 mks)

3. Name four factors that determine the spacing of a crop. (4 mks)

4. Name four methods of clearing land before primary cultivation. (2 mks)

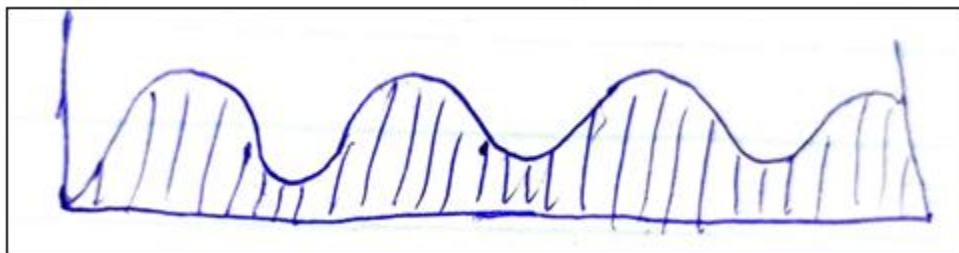
5. Give the field practice described by each of the following statements. (3 mks)
- (i) Replacement of a destroyed seedling .....
  - (ii) Uprooting excess seedlings .....
  - (iii) Uprooting and destroying affected seedlings .....
6. State four types of records kept by a maize farmer. (2 mks)
7. Define the following as applied in agriculture. (2 mks)
- (i) Crop pathology –
  - (ii) Entomology –
8. Mention four divisions in livestock farming. (4 mks)
9. Give two underground water sources in the farm. (1 mk)
10. Calculate the plant population per hectare of maize crop planted at a spacing of 100cm x 50cm. Show your working. (2 mks)
11. State four climatic factors that influence the process of soil formation. (2 mks)

12. The diagram below shows a common field pest.



- (a) Identify the pest shown above. (1 mk)
- (b) Name two crops commonly attacked by the pest. (2 mks)
- (c) State one control measure of the pest. (1 mk)

13. The diagram below shows a tertiary operation in the field.

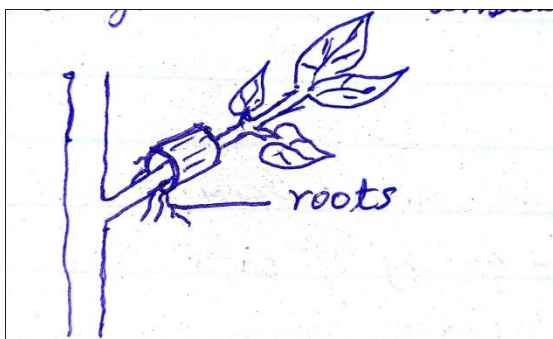


- (a) Name the field practice above. (1 mk)
- (b) State the importance of the practice named in (a) above. (1 mk)
- (c) Apart from the practice above, name two other tertiary operations in the field. (2 mks)

14. (a) Define the term layering.

(1 mk)

(b) Use the diagram below to answer the questions that follow.



(i) Identify the type of layering shown above.

(1 mk)

(ii) Apart from the type named in (i) above, name three other types practiced by farmers.

(3 mks)

15. A farmer was advised to apply 200kg CAN/h while top dressing while topdressing the maize crop. CAN contains 20% nitrogen.

(a) Calculate the amount of nitrogen applied/h.

(2 mks)

(b) If CAN fertiliser costs Kshs 150 per kg, how much did the farmer spend to buy the fertiliser?

(2 mks)

16. State four characteristics of fertile soils. (4 mks)

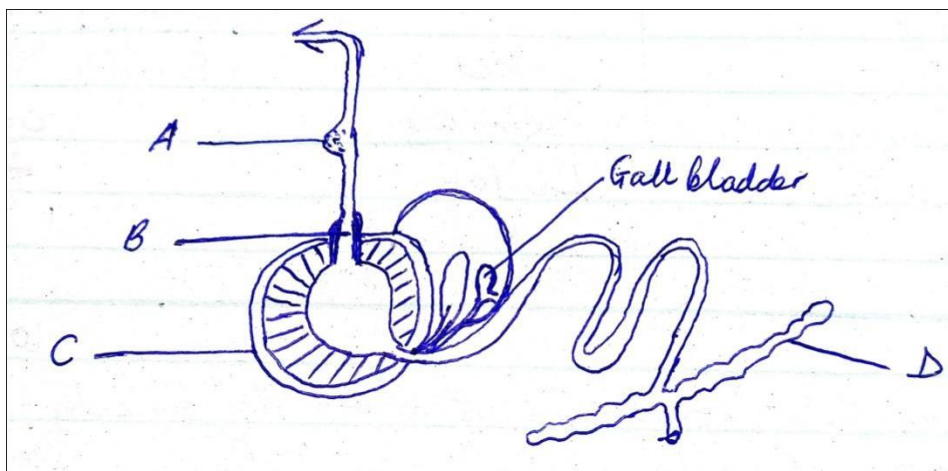
17. Name four constituents that make up soil. (4 mks)

18. Differentiated between mixed farming and mixed cropping. (2 mks)

19. Name three methods used in table formation in tea using pegs. (3 mks)

**SECTION B: (40 MARKS)**

20. The diagram below shows a digestive system of a farm animal.



(a) Name one example of a farm animal with the system above. (1 mk)

(b) Name the parts labeled D, C, B and A. (4 mks)

(c) State two functions of a gall bladder in a mammal. (2 mks)

(d) State three adaptations of part C to its function. (3 mks)

21. (a) A farmer is to prepare a ration containing 20% DCP using cotton seedcake and maize meal containing 30% DCP AND 15% DCP respectively. Calculate the amount of each feedstuff the farmer requires to constitute a bag of 60kg. Show your working. (4 mks)

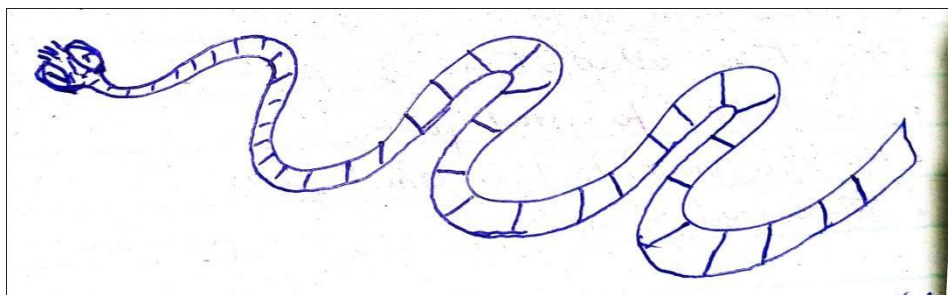
22. Fill in the table below with the correct term.

ANIMAL	FROM BIRTH TO WEANING	ADULT	
.....	.....	Ram	.....
Pig	.....	.....	.....
Goat	.....	.....	.....
Rabbit	.....		Doe
.....	Heifer		.....

23. Name the appropriate tool to perform the following: (6 mks)

- Cutting hard branches in coffee .....
- Cutting wood along the grains .....
- Measuring squareness on a piece of wood .....
- Cutting thick sheets of metal .....
- Placing mortar between construction stones .....
- Driving in and removing nails from wood .....

24. Below is a diagram of a livestock parasite. Use it to answer the questions that follow.



- Name two intermediate hosts of the parasite. (2 mks)
- State four control measures of the parasite. (4 mks)

(c) Name two other internal parasites found in farm animals. (2 mks)

(d) State the two main categories of parasites. (2 mks)

25. a) Give four plants sources of protein concentrates in animal ration. (4 marks)

b) Explain six functions of water in nutrition. (6 marks)



## GOLDLITE EXAMS

NAME:.....ADM NO.....CLASS.....

**OPENER EXAMINATION: TERM 1 2025**

**BIOLOGY**

**FORM 3**

**TIME:2 HRS**

### **INSTRUCTIONS**

**Answer All the questions in the space provided.**

1. Name the most appropriate tool that Biology students can use for collecting

i. Crawling animals (1mk)

.....

.....

ii. Flying insects (1 mk)

.....

.....

2. State the name given to the study of:

a) Cells (1 mk)

.....

.....

b) Classification of living organisms (1 mk)

.....

.....

3. a) Define the term species

(1 mk)

.....

.....

b) A Tiger is known as *Panthera Tigris*

i. Identify two mistakes made in writing the scientific name (2 mks)

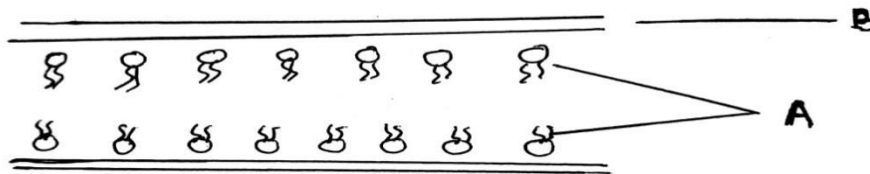
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ii. Explain why a Leopard and a tiger cannot breed yet they belong to the same genus (1 mk)

.....  
.....  
4. A cell was magnified 200 times using a light microscope whose eye-piece lens magnification was X10. What was the magnification of the objective lens (3 mks)

.....  
.....  
5. The cell structure below was observed under the light microscope



a) Identify the cell structure (1 mk)

.....  
.....  
b) Name the labeled parts A and B (2 mks)

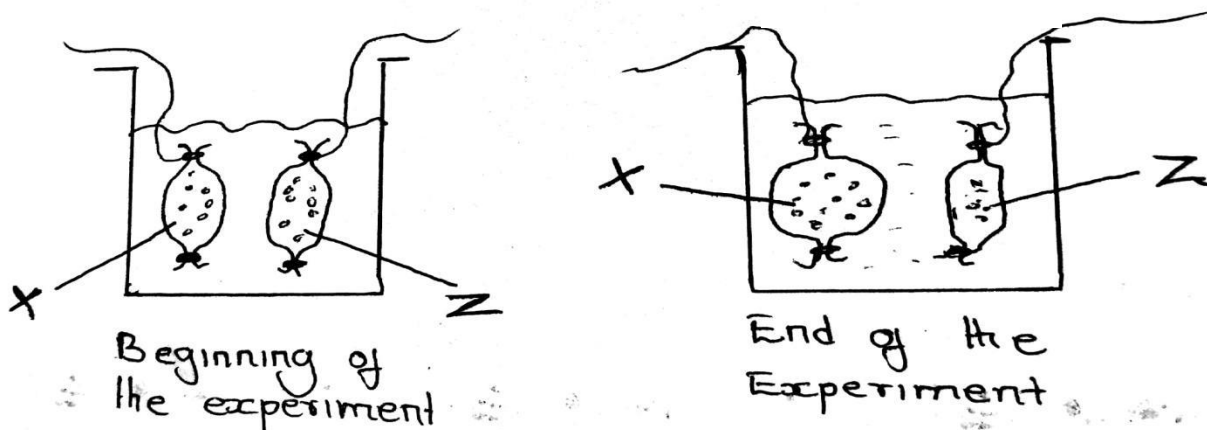
A.....

B .....

c) State one function of the above structure (1 mk)

.....  
.....

6. In an experiment equal amounts of three different sugar solutions were placed in the risking tubings X, Y and Z. the tubings were placed in a beaker of water containing 5% sugar solution. The set up was left for two hours. The results were as shown in the diagram below.



- a) Name the process being investigated in the experiment (1 mk)

.....

.....

- b) Account for the observations made at the end of the experiment (3 mks)

.....

.....

.....

- c) State three importance of the process named in (a) above in living organisms (3 mks)

.....

.....

.....

7. i) Name the carbohydrates that is  
(3 mks)

a) Found in abundance in mammalian blood

.....  
.....

b) Stored in mammalian liver

.....  
.....

c) Stored in plant seeds

.....  
.....

ii) List two importance of water in living organisms (2 mks)

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

8. The enzyme pepsin and trypsin are secreted as inactive precursors:

a) What are the name of the precursors (2 mks)

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

b) Why are they secreted in an inactive form (1 mk)

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

9. State two structural and two environmental factors that affect the rate of transpiration

a) Structural (2 mks)

.....

.....

.....

.....

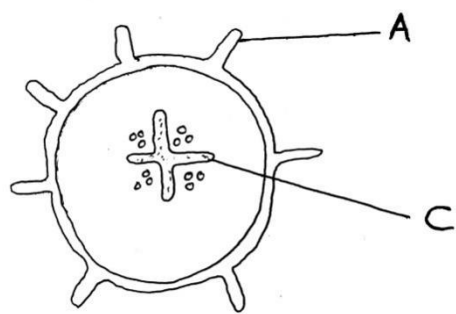
b) Environmental (2 mks)

.....

.....

.....

10. The diagram below is a transverse section of a certain part of a dicotyledonous plant



a) Which part of the plant was the section made from (1 mk)

.....

.....

b) Give reasons for your answer (1 mk)

.....

.....

c) State the functions of the parts labeled A and C (2 mks)

A.....

.....

C.....

.....

11. Give an example of an animal with (2 mks)

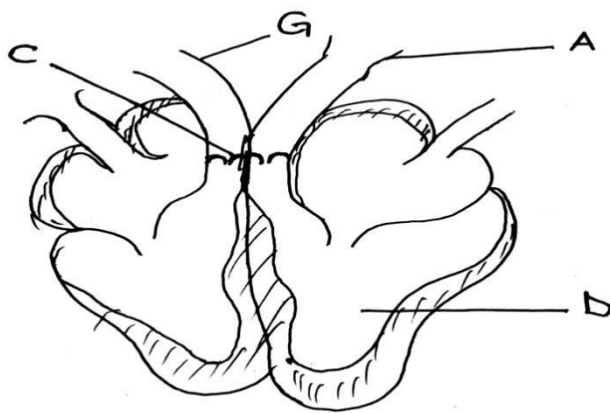
a) Open circulatory system

.....  
.....

b) Closed circulatory system

.....  
.....

12. The diagram below show the internal structure of a mammalian heart



a) Using arrows show the direction of blood flow in and out of the heart ( 2mks)

.....  
.....

b) Name the parts labeled (2 mks)

A.....

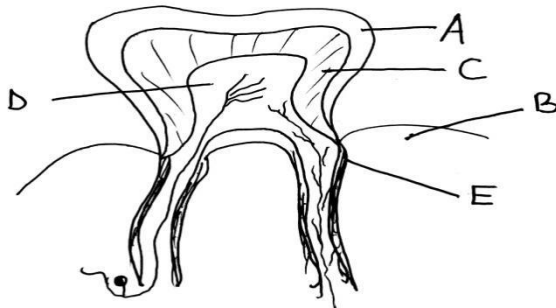
C.....

c) The muscular wall of chamber D is at least three times thicker than the wall of chamber E. give a reason for this difference (1 mk)

- .....
- .....
- d) Name two special characteristics of heart muscles which distinguishes it from other parts of muscles (2 mks)

- .....
- .....
- .....
- e) In what way does the artery labeled G differ from other arteries in the body (1 mk)

13. The figure below is a diagram of a vertical section of a mammalian tooth



- a) Name the parts labeled A – F (5 mks)

A.....	D.....
B.....	E.....
C .....	

- b) How are the structures labeled A and D adapted to their functions (2 mks)

.....  
.....  
c) List down three ways of preventing teeth diseases (3 mks)

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

14. a) Give two reasons why clotting of blood is important  
(2 mks)

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

b) Name one enzyme and one metal ion that are required in the blood clotting process (2 mks)

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

c) Explain why excessive bleeding may lead to death of a patient (3 mks)

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

d) Explain why deficiency of vitamin K leads to excessive bleeding even from small cuts (1 mk)

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

15. State and Explain five factors that determine energy requirements in human beings (10 mks)





18. Describe inhalation and exhalation in mammals (10mk)

**10 | Page** For marking schemes contact us on 0724351706 or visit our website [www.gollditeksrevision.co.ke](http://www.gollditeksrevision.co.ke)

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GOLDLITE EXAMS

NAME.....ADM.....CLASS.....

**OPENER EXAMINATION: TERM 1 2025**

**FORM 3**

**BUSINESS STUDIES**

**TIME: 2 HRS**

***Instructions: answer all questions in the spaces provided (100 MARKS)***

1. State four disciplines associated with business studies (4 marks)
  - a) .....
  - b) .....
  - c) .....
  - d) .....
2. State four characteristics of an effective warehouse. (4 marks)
  - a) .....
  - b) .....
  - c) .....
  - d) .....
3. Outline four internal environment factors that may positively influence the operations of a business. (4marks)
  - a) .....
  - b) .....
  - c) .....
  - d) .....
4. Give four differences between a public limited company and a public corporation. (4marks)

Public Limited company	Public corporation
a)	a)
b)	b)
c)	c)
d)	d)

5. State any four principles that govern the operations of co-operative societies in Kenya. (4 marks)
- a) .....
  - b) .....
  - c) .....
  - d) .....
6. State four reasons why the government is involved in business activities. (4 marks)
- a) .....
  - b) .....
  - c) .....
  - d) .....
7. State four benefits of advertising to a consumer. (4 marks)
- a) .....
  - b) .....
  - c) .....
  - d) .....
8. State the characteristic of human want that match the descriptions given below. (4 marks)
- a) Satisfaction of one want automatically leads to creation of another.....
  - b) Some human wants are experienced by all human beings .....
  - c) Human wants cannot be fully satisfied. ....
  - d) After some wants are satisfied they recur. ....
9. Highlight four reasons why the Kenya government encourages entrepreneurship in the country. (4 marks)
- a) .....
  - b) .....
  - c) .....
  - d) .....
10. State four roles of Nairobi security exchange market. (4marks)

- a) .....
- b) .....
- c) .....
- d) .....

11. Outline four factors to consider when choosing a means of transport. (4marks)

- a) .....
- b) .....
- c) .....
- d) .....

12. If goods worth sh 200,000 are insured for sh 150,000 against risk of fire. Fire occurred and partially destroy the goods worth sh 100,000. Calculate how much compensation was given. (4marks)

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.....

13. List **four** disadvantages of supermarkets. (4 marks)

- a) .....
- b) .....
- c) .....
- d) .....

14. State four advantages of written communication. (4 marks)

- a) .....
- b) .....
- c) .....
- d) .....

15. Highlight four reasons for which business should observe ethical practice. (4 marks)

- a) .....

- b) .....
- c) .....
- d) .....

16. Outline four features of liners is sea transport. (4 marks)

- a) .....
- b) .....
- c) .....
- d) .....

17. State four benefits of a business plan to a business (4marks)

- a) .....
- b) .....
- c) .....
- d) .....

18. Identify four ways in which natural resources may be of benefit to a country (4marks)

- a) .....
- b) .....
- c) .....
- d) .....

19. Give four factors an insurance company may consider when calculating premium to be charged in life assurance (4marks)

- a) .....
- b) .....
- c) .....
- d) .....

20. Outline **four** measures that may be taken by an office to safeguard the property of the organization (4marks)

- a) .....
- b) .....
- c) .....
- d) .....

21. A resource is something that is used by a business to achieve an objective. Identify four resources available in a business. (4marks)

- a) .....
- b) .....
- c) .....
- d) .....

22. Name four sources of energy which are environmentally friendly. (4 marks)

- a) .....
- b) .....
- c) .....
- d) .....

23. State **four** benefits of M-pesa as a means of remitting money. (4 marks)

- e) .....
- f) .....
- g) .....
- h) .....

24. Explain the distinctions between each of the following sets of goods and services. (8 marks)

(i) Free goods and economic goods.

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

(ii) Producer goods and consumer goods.

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

(iii) Perishable goods and durable goods.

.....  
.....



- .....
- .....
- (iv) Public goods and private goods.
- .....
- .....
- .....
- .....

**OPENER EXAMINATION: TERM 1 2025****FORM 3  
CHEMISTRY  
2 HOURS****INSTRUCTIONS:**

- ❖ Answer ALL questions in the spaces provided in the question paper
- ❖ All working must be clearly shown where necessary
- ❖ Candidates should answer the questions in English

1. Name the method of separation that can most suitably be used to separate the following mixtures
- a) Gasoline from petroleum. (1mk)  
.....
- b) Benzoic acid and potassium carbonate. (1mk)  
.....
- c) Oil from cashew nuts. (1mk)  
.....

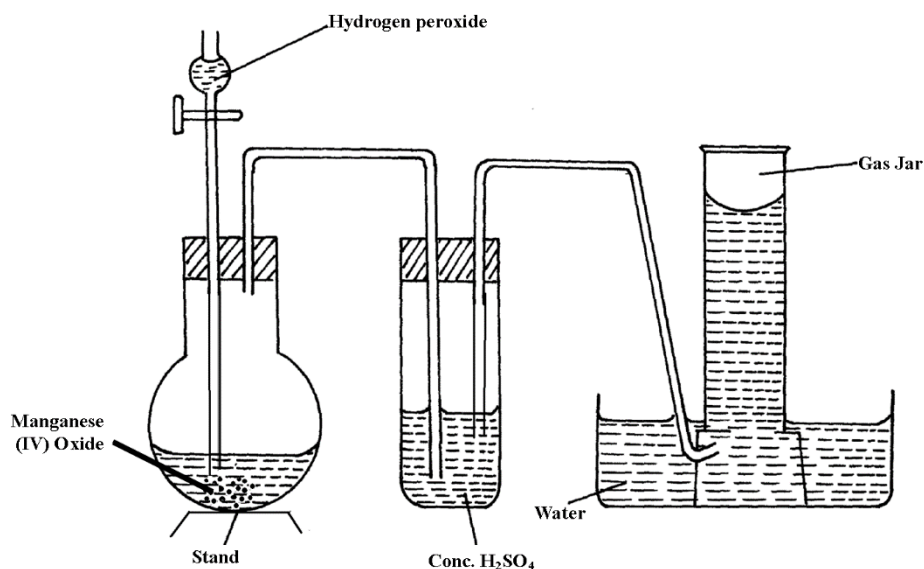
2. The table below shows information about three solid substances A,B and C.Study it and answer the question that follow.

<b>SOLID A</b>	<b>COLD WATER</b>	<b>HOT WATER</b>
A	Soluble	Soluble
B	Insoluble	Insoluble
C	Insoluble	Soluble

Describe how you will separate the three solids from a mixture of these three. (3mks)

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

3. The diagram below shows the set-up that can be used to prepare and collect oxygen gas. Study it and answer the questions that follow.



- a) Identify two mistakes from the diagram which must be corrected for one to collect dry oxygen gas. (2mks)

.....

.....

- b) What property of oxygen gas makes it possible to be collected over water. (1mk)

.....

4. The table below gives information about some reactions of metals A,B, C and D and their rates.

METAL	Reaction with acid	Reaction with water	Action of heat on its nitrate
A	Hydrogen evolved	No reaction	Oxide formed
B	NO reaction	No reaction	Metal formed
C	Hydrogen evolved	Hydrogen evolved	Oxide formed
D	NO reaction	NO reaction	Oxide formed

Arrange the metals in order of decreasing activity (Starting with the most reactive) (2mks)

5. The table below gives information on four elements by letters K,L,M and N. Study it and answer the questions that follow. The letters do not represent the actual symbol of the elements

Element	Electron arrangement	Atomic radius (nm)	Ionic radius(nm)
K	2.8.2	0.136	0.065
L	2.8.7	0.099	0.181
M	2.8.8.1	0.203	0.133
N	2.8.8.2	0.174	0.099

- a) Which two elements have similar properties? Explain (2mks)

.....

.....

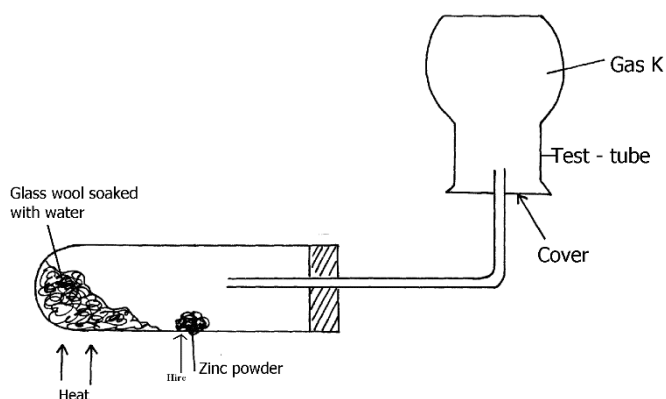
- b) What is the most likely formula of the oxide of L? (1mk)

.....

- c) Which element is a non – metal. Explain. (1mk)

.....

6. A student set- up the experiment below to collect gas K. The glass wool was heated before heating the zinc powder.



- a) Why was it necessary to heat the moist glass wool before heating the zinc powder.(1mk)
- b) What observation was made in the test-tube. (1mk)
- .....
- .....
- c) Explain why it's not advisable to prepare hydrogen gas by reacting dilute sulphuric (vi) acid with calcium metal. (2mks)
7. Using dots(●) and crosses ( x) to represent the outermost electrons, draw the structure to show the bonding in  $\text{CO}_2$  ( C = 6, O = 8) (3mks)
8. Name the particles responsible for the electrical conductivity of
- a) Graphite (1mk)
- .....
- b) Molten Magnesium chloride. (1mk)
- .....
9. Starting with calcium carbonate, describe how a solid sample of calcium sulphate can be Prepared. (3mks)
- .....
- .....
- .....
- .....
- .....
- .....
- .....
10. State and explain what would be observed when hydrogen gas is passed over heated copper (II) oxide in a combustion tube. (3mks)

.....

.....

.....

.....

11. Solution R, S and T have PH values shown in the table below:

Solution	pH value
R	1.0
S	6.5
T	8.0

- a) What do you deduce about the nature of solution R? (1mk)
- .....
- .....
- b) Which solution would react most vigorously with sodium hydrogen carbonate? (1mk)
- .....
- c) Which solution is likely to be ammonia solution? (1mk)
- .....

12. (i) Compare the second ionisation of Magnesium with its first ionisation energy. (1mk)

(ii) Explain your answer in (i). (1mk)

13. The electron arrangement of ions  $X^{+2}$  and  $Y^{-3}$  are 2.8.8 and 2.8 respectively. Write the electron arrangement of the atoms of

X (1mk)

Y (1mk)

14. (i) Which flame is produced when the air hole of a Bunsen burner is closed. (1mk)

(ii) What is the use of the Collar on a Bunsen burner? (1mk)

15. State **two** differences between ionic bond and covalent bonding compounds. 2mks

16. Group 8 elements are known as noble gases. Explain their lack of reactivity.....(2mk)

17. Explain the following trends observed in the periodic table.

- a) Atomic radii increases down the group in alkali metals 2mks

b) Melting point increases from sodium to aluminium in the third period. 2mks

c) Chlorine is more reactive than sulphur. 2mks

18. Element M has an electronic configuration of 2.8.1. Element N forms ions by gaining two electrons and react with metals to form oxides. Element P has an atomic number of 17 and reacts with water forming acidic solutions. Element Q reacts with P forming a white solid of formula QP. When a gas P is bubbled into colourless solution of MR, the solution turns reddish brown. When a gas R is bubbled into a solution of MS a dark solid is formed.

i) What is the valency of element P 1mk

ii) What is the charge of ion of element N.? 1mk

iii) Write down the formula of the compound formed between M and N 1mk

iv) If element M is reacted with water, what would be the nature of the resulting solution. Explain your answer. 3mks

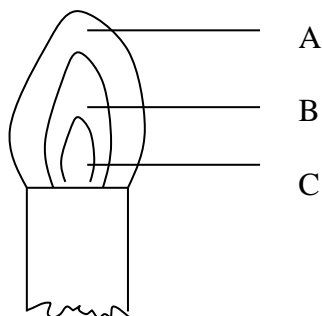
v) Write a balanced chemical equation for the reaction in (iv) above 2mks

vi) Identify elements R and S. 2mks

vii) Arrange elements P, R, S in order of their increasing reactivity. 1mk

viii) Write balanced equation for the reaction between gas P and solutions MR. 2mks

19. The diagram below shows the flame of a bunsen burner with the air – holes open.

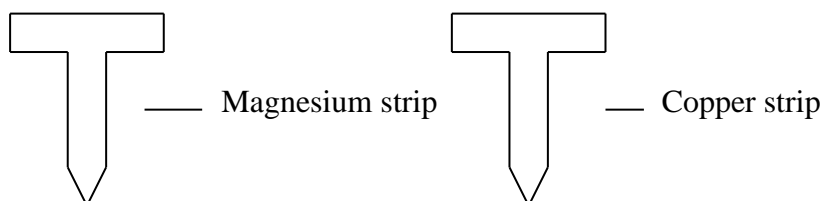


(a) On the diagram name the areas marked B and C. (1mk)

(b) Explain how the area marked B rises. (1mk)

(c) Explain how the area marked A would change when the air – holes are closed. (1mk)

20. The diagram below shows two nails A and B wrapped with two different metal strips. Explain with reasons which of two nails will rust most if they are exposed to moist air. (3mks)



21. The table below shows some properties and electrons arrangements of common ions of elements represented by letters P to X. Study the information in the table and answer the questions that follow.

Element	Formula of ion	Ion electron arrangement	Atomic radius (nm)	Ionic radius (nm)
P	$P^{2+}$	2:8:8	0.197	0.099
Q	$Q^{-}$	2:8	0.072	0.136
R	$R^{+}$	2:8:8	0.231	0.133
S	$S^{3+}$	2:8	0.143	0.050
U	$U^{2+}$	2:8	0.160	0.065
V	$V^{+}$	2:8	0.186	0.095
W	$W^{+}$	2	0.152	0.060
X	$X^{-}$	2:8:8	0.099	0.181

(a) (i) Give the atomic numbers of elements P and Q. (2mks)

P

Q

(ii) Select elements that belong to the period 4 of the periodic table. (1mk)

(iii) Select **an** elements that would react with cold water explosively evolving hydrogen gas.(1mk)

(iv) Why is the ionic radius of element X larger than its atomic radius? (2mk)

(v) Write an equation for the reaction between S and Oxygen. (1mks)

22. The table below gives some properties of three substances A, B and C.

SUBSTANCE	A	B	C
Appearance	Brown solid	Yellow solid	Yellow solid
Melting point (°C)	1017	115°C	402°C
Solubility in water	Insoluble	Insoluble	Sparingly
Electrical conductivity (solid)	Conducts	Does not conduct	Does not conduct
Electrical conductivity (liquid)	Conducts	Does not conduct	Conduct but decomposed

a) Giving reasons for your answers, which of the substances A, B and C has  
i) Giant ionic lattice 2mks

ii) Simple molecular lattice 2mks

iii) Giant metallic lattice 2mks

b) Why does C conduct electricity only in molten state but not in solid state 1mk

c) Why is A not decomposed when it conducts electricity 1mk

d) Explain in terms of structure and bonding why the melting point of B is lower than that of C. 2mks

23. Salt is sprinkled on roads in Europe during winter to prevent formation of ice on roads. Explain how the salt works. (2mks)

24 .Study the information in the table below and answer the questions that follow.

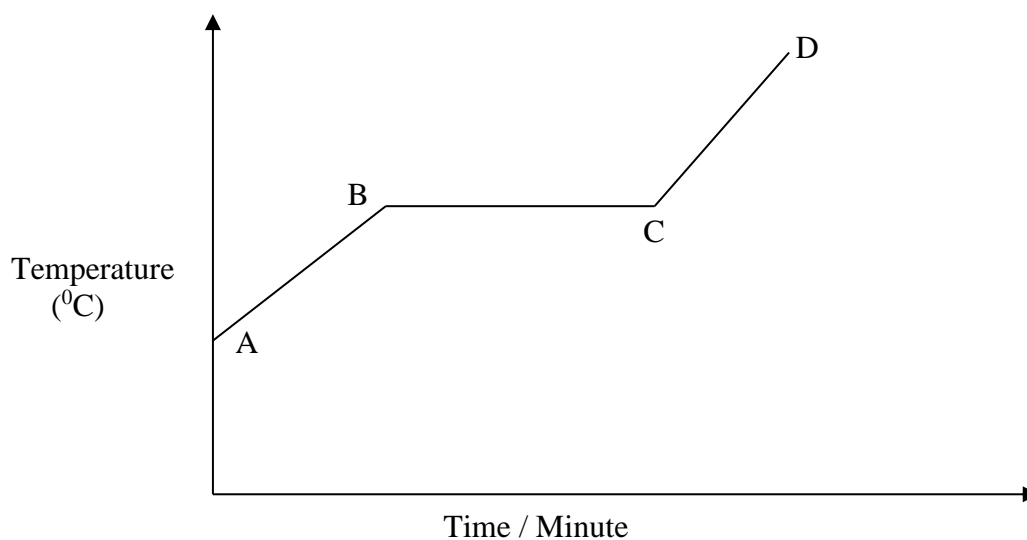
Element	Atomic number	Melting point (°C)
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P	14	1410
Q	16	-235

In terms of structure and bonding explain the difference in the melting points. (3mks)

25 .The diagram below shows part of a temperature / time curve obtained when pure solid Naphthalene is heated.



(a) Explain why part BC is horizontal. (1mk)

(b) On the axis above draw the curve for impure Naphthalene solid. (2mks)

26. (a) The relative atomic masses of some elements are not whole numbers. Explain. (1mk)

(b) An elements Gallium has relative atomic mass 69.8. In 100 atoms of Gallium 60atoms are Gallium 69 and 40 atoms are Gallium X.  
Determine the value of X. (3mks)

27. (a) What is valency. (1mk)

(b) The valency of X is 3, what is the formula of its;

(i) Hydroxide. (1mk)

(ii) Sulphate. (1mk)

**OPENER EXAMINATION: TERM 1 2025**

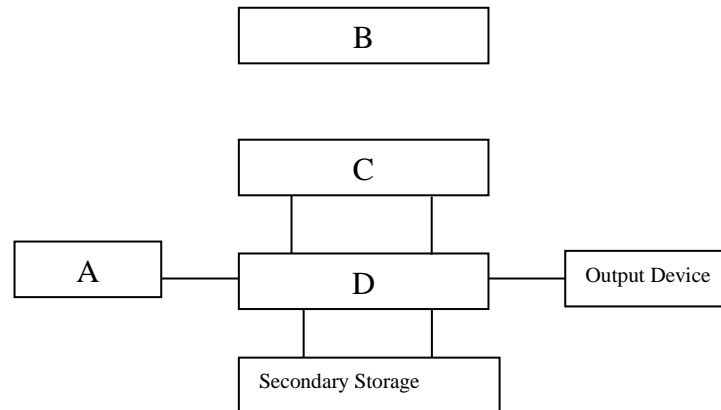
**COMPUTER STUDIES**

**FORM 3**

**ANSWER ALL QUESTIONS**

**TIME: 2 HOURS**

1. The diagram below represents the essential features of a computer system. Study the diagram and answer the questions that follow.



- i. Name the components [4mks]

A \_\_\_\_\_

B \_\_\_\_\_

C \_\_\_\_\_

D \_\_\_\_\_

- ii. On the diagram above, indicate the direction of data flow using arrows. [3mks]

- iii. Name and explain the **three** types of buses in a computer system. [6mks]

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2. Describe the functions of the following computer hardware components. [4mks]

- i. Mouse

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- ii. Scanner

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3. State any **two** features of a user-friendly program.

[2mks]

4. Differentiate between COM ports and LPT ports.

[4mks]

5. Explain the term portability in reference to hardware and software.

[4mks]

6. Explain **three** ways in which computer viruses are spread from one computer to another.[6mks]

7. a) What is a computer laboratory?

[2mks]

b) State **three** possible causes of fire outbreak in a computer laboratory.

[3mks]

c) State **three** measures that should be put in place in a computer laboratory to safeguard users' health.

[3mks]

8. Give **three** differences between Post Office mail and electronic mail (email). [3mks]

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9. Other than I/O devices, list other four devices under the control of the operating system.[4mks]

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10. Differentiate between Cache and Buffer memories. [4mks]

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11. i) State **three** importance of internet to society. [3mks]

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ii) Describe **four** challenges that internet has brought to society. [4mks]

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12. i) What is a computer keyboard? [2mks]

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ii) Name and explain the function of the following key symbols found in a keyboard.

i) [2 mks]



ii) [2 mks]



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iii)

[2 mks]



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13. A computer laboratory experiences power supply problems. Describe three power related problems that should be addressed. [6 mks]

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14. List the **three** categories of system software. [3mks]

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15. State **five** file details that are assigned a file by the operating system which can assist in tracing the file. [5mks]

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16. State **three** advantages of word processors over manual typewriter. [3mks]

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17. List **three** editing features of word processing. [3mks]

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18. List **three** types of font types used in word processing. [3mks]

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19. Describe each of the following computer crimes.

[3 Marks]

a) Hacking

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b) Piracy

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c) Sabotage

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20. Mwende noticed that her PC is taking too long to load programs and files. The computer technician informed her that there was a high possibility it a virus.

a) What is a computer virus?

[1 Mark]

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b) Give any **three** sources of a computer virus.

[3 Marks]

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c) List any **three** measures that Mwende needs to put into place to protect her computer from virus infection. [3 Marks]

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**NAME:** ..... **ADM ON:** ..... **CLASS:**.....

**CHRISTIAN RELIGIOUS EDUCATION  
OPENER EXAMINATION: TERM 1 2025**

**FORM 3**

**TIME: 2 HRS 15 minutes**

***ANSWER ALL THE QUESTIONS IN THE SPACES PROVIDED***

1. From the creation stories explain why man is super to the rest of the creation. (6 marks)

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2. State five ways in which human being rebelled against God according to Genesis stories of the Origin of sin. (5 marks)

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3. Give examples of evil faced by human beings today. (5 marks)

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[illegible][illegible][illegible]

*For marking schemes contact us on 0724351706 or visit our website [www.goldlitekcserevision.co.ke](http://www.goldlitekcserevision.co.ke)* Page 2 of 6

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7. State seven functions of the temple in the Jewish community.

(7 marks)

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8. Identify six ways which show that King Solomon turned away from the covenant way of life.

(6 marks)

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9. How can Christian enhance true worship of God today?

(5 marks)

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10. With reference to the sermon on the plain, state seven teachings of Jesus on how human beings should relate to one another. (7 marks)

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11. Narrate the healing of the centurion servant in Luke 7: 1-10. (7 marks)

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12. State six lessons that Christians learn from the healing of centurion servants. (6 marks)

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13. State six accusations that were made against Jesus during the trial. (6 marks)

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14. Give five reasons why Jesus appeared to the disciples after resurrection (5 marks)

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15. Identify five reasons why Christians should be discouraged from taking part in mob justice.

(5 marks)

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[illegible]

**GOLDLITE EXAMS**  
**OPENER EXAMINATION: TERM 1 2025**  
**ENGLISH**  
**FORM THREE**  
**Time: 2 ½ Hours**

**Name:** ..... **Adm No:** .....

**School:** ..... **Class:** .....

**Signature:** ..... **Date:** .....

**INSTRUCTIONS**

- This paper contains 10 printed pages.
- Answer **ALL** the questions.
- Write your name and Adm. Number in the spaces provided.
- All answers **MUST** be written in the spaces provided in this question paper.
- All answers should be in English.

QUESTION	MAXIMUM	SCORE
COMPREHENSION PASSAGE	20	
FUNCTIONAL WRITING	20	
CLOZE TEST	10	
ORAL SKILLS	20	
ORAL LITERATURE	15	
GRAMMAR	15	
TOTAL	100	

1. Read the passage below and then answer the questions that follow. (20mks)

Discipline is something that we have all experienced personally in different forms, seen used on others, and is also something that many of us will go on to use later in life, both in the form of self-discipline and as something to keep children and even employees in check. It is essential to life as we know it, and we need it in its many different forms in many different situations.

The first reason that discipline is so important is that we all need to exercise self-discipline to be successful in life. Self-discipline can mean very different things to different people; for students, for example, self-discipline is often about motivating yourself and making yourself concentrate on your studies and get your assignments in on time. For working people, it can be as simple as getting up on time every morning, however tired you may be and how much you may hate your job, getting to work on time and doing your job. Without this kind of self-discipline, people would not be able to enjoy academic success, or be successful in their careers either.

Self-discipline is also required for dieters and anyone doing regular exercise, because given the chance, most of us would prefer to be lazy rather than get up and exercise, and eat burgers and fries rather than healthy food. Without it, even more people would be fat and unhealthy, and a lack of self-discipline in some people certainly contributes to the obesity crisis.

Discipline is also something that needs to be used on others where necessary. If parents didn't discipline their children when they were naughty, children wouldn't grow up knowing right from wrong, or be able to become productive members of society who contribute to the system. Equally, schoolteachers need to be able to dish out punishments to children who don't behave themselves. Without discipline in the classroom, there would be a great deal of **disruption** and nobody would ever learn anything. Indeed, teachers who struggle to command the respect of students and who fail to use discipline effectively will often have trouble even making themselves heard in a classroom.

In the workplace, discipline is also essential to maintaining a hierarchy and dealing with employees who do not follow company policies and procedures, regularly arrive late or not at all, or treat their co-workers unfairly. Then, you have to consider that without discipline, there would be no law enforcement. Murderers would be **roaming** the streets and everybody would be stealing from each other, because there would be no consequences for their actions.

Discipline acts as a **vital** deterrent to stop children being naughty, people from missing work, and even potential criminals from stealing and killing, and for this reason it is vital in human society.

(a) In which forms can discipline be used later in life of a person? (2marks)

(b) What would become of naughty children if parents didn't discipline them according to the passage? (2marks)

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(c) What does self-discipline mean to a student according to the passage? (2marks)

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(d) In note form, state the reasons for discipline.

(4marks)

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(e) How does absence of discipline lead to no law enforcement according to the passage? (3marks)

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(f) What **three** things does discipline restrict one from doing according to the passage? (3marks)

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(g) **Equally**, schoolteachers need to be able to dish out punishments to children who don't behave themselves.

(1mark)

*Replace the word in bold with a word with similar meaning.*

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(h) Explain the meaning of the following expressions As used in the passage.

(3marks)

- |               |       |
|---------------|-------|
| i) Disruption | ..... |
| ii) Vital     | ..... |
| iii) Roaming  | ..... |

## 2. FUNCTIONAL WRITING

You are throwing a party at home for your 15<sup>th</sup> birthday. You have planned to invite your friends through a card. If there are five special guests and master of ceremonies invited, design that card that you will send them.

(20marks)

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## CLOZE TEST

**Read the passage below and then fill in the blank spaces. Use only ONE word in each space.**

**(10marks)**

Safety is one of the most essential factors that one should look at while driving a vehicle. When it comes to driving a vehicle, one could either be a good driver or someone ...1.....can't drive. There is no in-between status for a driver. Now-a-days it's becoming more and ....2 ..... common for road accidents to take up the headline space in a daily newspaper. Many people lose their ...3.....in road accidents.

One should pay full attention while driving a vehicle and completely ...4..... any distractions. It is also an automobile owner's responsibility to keep his vehicle in the best condition so as to avoid any accident .....5..... driving on road. While driving a vehicle the responsibility for one's life and the life of others rests with the driver of the vehicle.

There ...6..... all types of drivers on the road, from teenagers to the elderly. Everyone on the road ...7..... supposed to be licensed. Unfortunately, a driver's license does not always ensure common sense and responsibility on the road. Safe driving is crucial because things can happen behind the wheel in a fraction ...8..... second.

Year over year accidents increases even though infrastructure of nation is growing fast and providing better ways of driving on the roads especially highways. Previously there were single lane and now the double lane, four lanes and six lanes ...9..... come. But number of road accidents increased with the luxury transports and heavy vehicles. Government and many non-profit NGOs organize road safety weeks and create awareness about the ...10.....safety.

### 3. ORAL SKILLS

20Marks

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

##### INFANT SORROW

My mother groaned, my mother wept;  
Into dangerous world I leapt;  
Helpless, naked, piping loud,  
Like a friend hid in a cloud.

Struggling in my father's head  
Struggling against my  
Swaddling-bands  
Bound and weary I thought best  
To suck upon my mother's breast.

##### QUESTIONS:

a. (i) Describe the rhyme scheme of the above poem.

(2mks)

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(ii) Mention two non-verbal cues you would use to enhance a recitation of the poem.(4mks)

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b. Which words are pronounced the same as the ones below?

(5mks)

i. Manner-

ii. None-

iii. Mind-

iv. Rest-

v. Shoe-

c. Identify the silent letter in the following words

(4marks)

- i. Cologne
- ii. Aisle
- iii. Circuit
- iv. Would

d. Your class has been invited to participate in the Great Debators Contest. Explain any five important preparations you would make to ensure that your side will be successful. (5marks)

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## ORAL LITERATURE

**Read the narrative below then answer the questions that follow.**

**15Marks**

One day on a farm, cat took out her walking stick and started to walk laboriously along the road, leaning heavily on her stick. Hen, who was pecking at the ground nearby, looked up and said, "Aunty Aunty, where are you going?"

The cat said, "I am off to the holy city to give my annual offering". Hen said, "May I come with you? I will accompany you on your long journey and at the same time perform my pilgrimage as well". Cat replied "If you must, there is no stopping you". So both of them started moving further on the road. Then they met Duck. Duck said, "Aunty, where are you going?"

Cat replied, "Come if you must," Duck joined them.

A little ahead they met Mouse. Mouse asked, "Aunty where are you going?" Cat replied, "I am going to the holy city," Mouse asked, "May I come along with you?" Cat said, "If you want to dear." They walked along the road for sometime then cat said, "Oh my old bones, now they ache ohoo." The three stopped and offered to rest along with her. Cat said, "Hen may wait with me if she likes, the two of you go on ahead. We will catch up with you." The cat pounced on the Hen and ate her up.

After a few hours, Cat caught up with Duck and Mouse. When they enquired about Hen, Cat said, "Oh, she had forgotten her offering at home and has gone back for it," And they walked on.

The next day Cat began to groan again, and this time asked Duck to stay with her. Mouse went on ahead. When Cat caught up with Mouse she said Duck has forgotten her offering as well.

At this Mouse got suspicious for if Duck forgotten her offering as well she would have turned back with Hen. Meanwhile, Cat thought: "Now it is the turn of Mouse, what a delicacy! The taste will linger for a long time in my mouth."

Then she said to the Mouse, "Mouse let us stop for a rest." After a while she said, "It is long since I played catch and catch with anyone. Why don't I fulfill this desire for who knows how long I have to live?"

Mouse began to play; he ran here and there; soon he realized that Cat was out to get him so he quickly darted into a hole in the ground. Now cat knew she could not get Mouse so she said, "Mouse, Mouse, come out. I want to tell you a story," Craftily Mouse replied, "You tell the story and I will listen to it in here."

So, you see whenever Mouse sees Cat, he runs quickly to hide for he knows that Cat is after him. He has not forgotten the uncompleted journey to the holy city.

(a) Giving a reason, classify this narrative. (2 marks)

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(b) What features of oral narratives are evident in this story? Explain any 4. (2 marks)

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(c) Briefly explain any two character traits of the Cat in this story. (4 marks)

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(d) What two lessons do we learn from the story? (2 marks)

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(e) Why do you think the Duck did not complete the journey? (1 marks)

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(f) What does the story reveal about the community from which the story was taken? (2 marks)

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(g) Explain the two problems you could encounter when collecting this type of oral genre. (2 marks)  
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#### 4. GRAMMAR

15Marks

(a) Rewrite the following sentences according to the instructions after each. (4mks)

i. Tom likes eating rice than taking tea. Rewrite beginning: Tom prefer  
.....  
.....

ii. Someone is following us. (Rewrite in the Passive voice)  
.....  
.....

iii. Otieno will not participate in the elections if he does not clear himself of the corruption charges.  
(Begin: Unless...)  
.....  
.....

iv. Juma said that he would be going to Nairobi the following day. (Rewrite in direct speech)  
.....  
.....

(c) After each of the following sentences indicate if the underlined word is a possessive pronoun or a possessive adjective. (4mks)

- i) This pen is mine .....
- ii) This is her bag .....
- iii) The class is ours .....
- iv) BBI is their project .....

(d) Fill in the blank spaces with the appropriate complex preposition (3mks)

(i) I am calling.....my father

(ii) .....cost, it is not worth much.

(iii) We went .....Nakuru but we did not see Muturi.

**(b) Choose the correct words from the ones given in the brackets**

**(4 marks)**

i. She works harder than..... (he/him)

ii. Uncle Jeff gave..... (my twin sister and I / me and my twin sister) mobile phones on our birthday.

iii. (He/Him)..... being the eldest in the family, has to shoulder all the responsibility.

iv. Between you and .....(she/her), who took the book to the teacher?

## GOLDLITE EXAMS

Name:.....Class:.....Adm No.....

TIME: 2 HOURS

FORM 3

GEOGRAPHY

OPENER EXAMINATION: TERM 1 2025

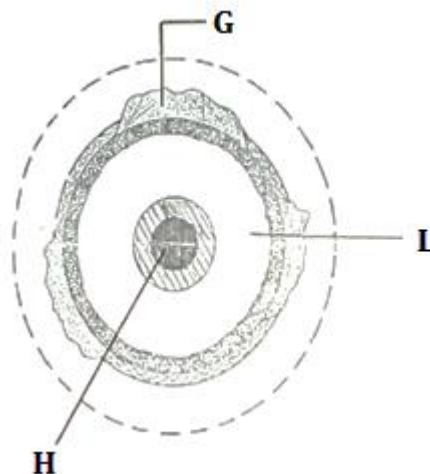
### INSTRUCTIONS.

Answer all questions in the space provided.

1. a) Identify two types of environment. (2 marks)

b) Give three areas of study of Human Geography. (3 marks)

2. a) The diagram below shows the internal structure of the earth. (3 marks)



i) Name the part marked G, H, I (3 marks)

G

H

I

ii) State three characteristics of the mantle. (3 marks)

3. a) What is a weather station? (2 marks)



- i) State four factors for siting a weather station. (4 marks)
- ii) Differentiate between normal lapse rate and negative lapse rate. (2 marks)
4. a) i) Define the term scale. (2 marks)
- ii) Convert 1:100000 into statement scale. (2 marks)
5. Students of Nyandarua High school intend to conduct a field study in a market near their school.
- a) State three objectives they would formulate for their study. (3 marks)
- ii) Give four appropriate methods of data recording they would use (4 marks)
- iii) Give three ways in which they will present data collected. (3 marks)

6. a) What are metamorphic rocks? (2 marks)
- b) Give three examples of metamorphic rocks and their original rocks. (6 marks)
- c) Outline three underground mining methods. (3 marks)
7. a) i) Define the term folding. (2 marks)
- iii) List four types of folds. (4 marks)
- b) With a well labeled diagram describe how inte-montane plateaus is formed. (5mks)

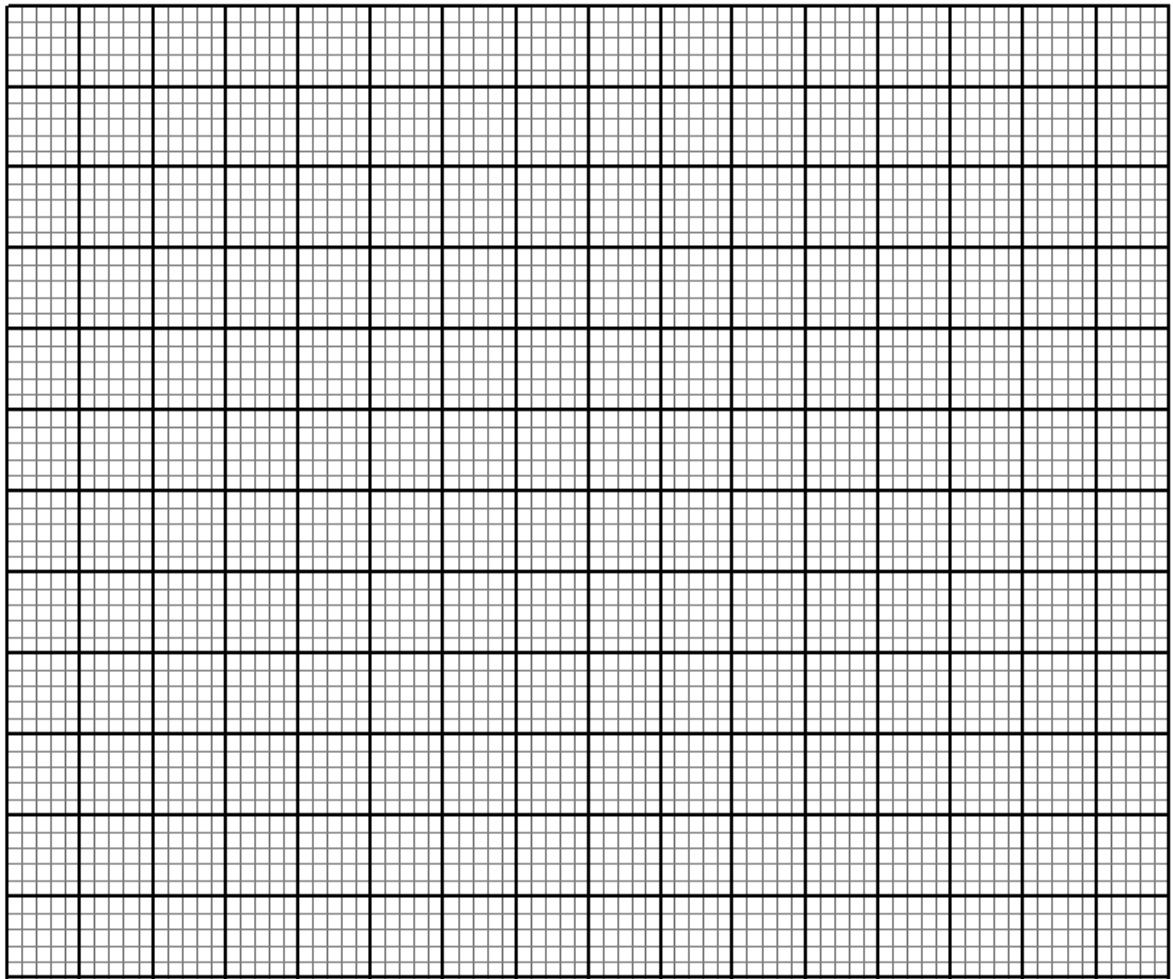
c) State five significance of folding to human activities.

(5 marks)

8. The table below shows the productions of three crops in Kenya from 1980-1984 in 000 tonnes. Use it to answer questions that follow.

	1980	1981	1982	1983	1984
Coffee	20	10	40	80	105
Tea	40	30	35	60	90
Wheat	10	30	15	25	15

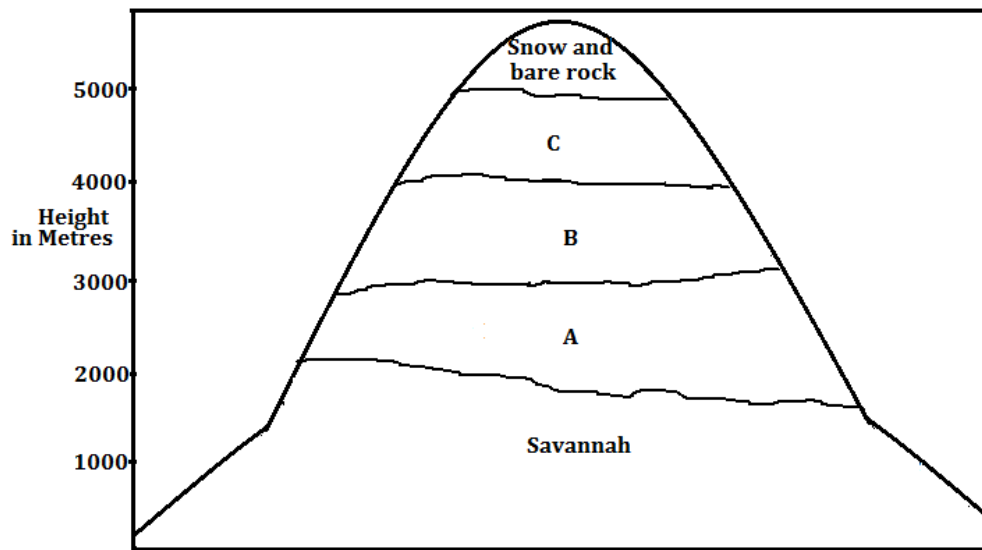
- a) Use the data above draw a comparative line graph to represent the data. Use scale of 1cm rep 10,000 tonnes. (7 marks)



- ii) State three advantages of comparative line graph.

(3 marks)

- ii) State three disadvantages of comparative line graph. (3 marks)
9. a) Give two areas that experiences equatorial climate. (2 marks)
- ii) State five characteristics of Equatorial climate. (5 marks)
- b) i) Name five temperate grasslands and areas where found in the world. (5 marks)
- ii) Study the diagram below and answer questions that follow.



Name the vegetation type marked A, B and C.

(3 marks)

A  
B  
C

iii) State four significance of vegetation.

(4 marks)

10. a) Define the term forestry.

(2 marks)

b) Explain how the following factors influencing type and distribution of forests.

i) Temperature

(2 marks)

ii) Rainfall

(2 marks)

c) State three problems facing forestry in Kenya.

(3 marks)

**NAME:** ..... **ADM NO:** ..... **CLASS:** .....  
**OPENER EXAMINATION: TERM 1 2025**  
**HISTORY AND GOVERNMENT**  
**FORM THREE**  
**TIME: 2 HOURS 30 MIN**

**INSTRUCTIONS**

This paper consists of three sections.

Answer **all** questions in section A, **Three** questions in section B and **Two** in section C.

**SECTION A**

1. State two ways in which the study of History and Government promotes a sense of patriotism in the learner. (2 marks)

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2. Define the term pre-history (1 mark)

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3. Give two demerits of the use of archaeology as a source of information in history and Government (2 marks)

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4. Name the main political feature that was common among all the Bantu speakers in Kenya (1 mark)

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5. Identify the branch of history which deals with people's occupation (1 mark)

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6. Name **two** types of dwelling used by the early man during the early stone age period (2 marks)

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7. Identify **two** types of oral tradition used to obtain information on history and Government (2 marks)

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8. Name **two** sources of information on the creation theory of man (2 marks)

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9. Give **one** function of Orkoyot of the Nandi (1 mark)

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10. Give **two** types of Trade

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11. Identify **two** social functions of the Ancient city of Athens (2 marks)

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12. Give **two** importance of National integration to the people of Kenya. (2 marks)

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13. Identify **one** right of an accused person in Kenya

(1 mark)

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14. State **two** aspects of democracy

(2 marks)

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15. Name **two** rights of children in Kenya

(2 marks)

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**SECTION B (45Marks)**

**Answer any three Questions from this section**

16. a) Give **five** results of the migration and settlement of the Agikuyu in Kenya during the Pre-colonial period

(5 marks)

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b) Describe the social organization of the Nandi during the pre-colonial period

(10 marks)

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[illegible]

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[illegible]

b) Explain **five** impacts of telecommunication

(10 marks)

19. a) State **five** effects of iron working in Africa

(5 marks)

b) Discuss **five** impacts of scientific inventions on Agriculture.

(10 marks)



21. a) State **five** groups that monitor human rights in Kenya

(5 marks)

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b) Explain **five** characteristics of human rights

(10 marks)

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22. a) State **five** factors that led to the rise and growth of Asante Kingdom

(5 marks)

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b) Explain the economic organization of the Buganda during the 19<sup>th</sup> Century

(10 marks)

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Name:.....Index Number:...../.....

441

Candidate's signature.....

HOME SCIENCE

Date.....

(THEORY)

## FORM 3 OPENER EXAMS

### TERM 1 2025

#### 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) This paper consists of **three** sections; **A**, **B** and **C**.
- (d) Answer all the questions in section **A** and **B** and any two questions from section **C** in the spaces provided.
- (e) Answers to all questions must be written in this booklet.

For examiner's use only

Section	Questions	Maximum score	Candidate's score
<b>A</b>			
<b>B</b>			
<b>C</b>			

This paper consists of 8 printed pages. Candidates should check the question paper to ensure that all the pages are printed as indicated and no questions are missing.

1. State **three** areas to study in home science. (3 marks)
- .....
- .....
- .....
- .....
2. Name **two** layers of the skin. (2 marks)
- .....
- .....
- .....
3. Name **two** classification of household refuse. (2 marks)
- .....
- .....
- .....
4. Define term drainage. (1 mark)
- .....
- .....
- .....
5. Suggest **three** reasons for drainage. (2 marks)
- .....
- .....
- .....
- .....
6. State **two** disadvantages of poor sanitation. (2 marks)
- .....
- .....
- .....
- .....
7. What are communicable diseases? (1 mark)
- .....
- .....
- .....



8. State **two** important reasons for pressing work during construction. **(2 marks)**

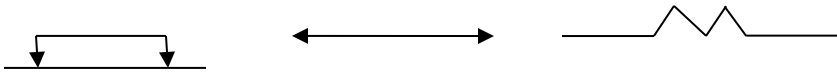
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9. Identify the following symbols in garment pattern piece. **(3 marks)**



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10. State **two** reasons why wool is not suitable for making aprons. **(2 marks)**

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11. State **three** importance of learning consumer education. **(3 marks)**

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12. Suggest the meaning of the following:

a) Goods **(1 mark)**

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b) Services **(2 marks)**

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13. State **two** types of conspicuous seams. (2 marks)
- .....
- .....
- .....
- .....
14. What is **food** fortification? (1 mark)
- .....
- .....
- .....
15. State **one** way of conserving nutrients during storage. (2 marks)
- .....
- .....
- .....
- .....
16. Suggest **two** advantages of using an electric cooker. (2 marks)
- .....
- .....
- .....
- .....
17. State **two** changes that you are likely to observe when deep frying mandazi. (2 marks)
- .....
- .....
- .....
- .....
18. What is aflatoxin? (1 mark)
- .....
- .....
19. Suggest **two** method of finishing a plain seam. (2 marks)
- .....
- .....
- .....

20. Suggest **two** ways of improving cloths storage facilities. (2 marks)

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**SECTION B: COMPULSORY SECTION MUST ANSWER ALL** (20MKS)

21. Your grandmother has invited you to her house to stay overnight. You are helping her wash her woolen sweater.

- a. Explain **six** steps one should avoid when laundering and drying a woolen article. (6 marks)
- b. Explain step by step how to daily clean her sitting room. (8 marks)
- c. Explain to her six points to observe when using chemical disinfectant in her laundry. (6 marks)

**SECTION C: CHOOSE AND ANSWER ONLY TWO QUESTIONS IN THE SECTION**

22.

- a) List **four** items which can be recycled at our homes. (4 marks)
- b) Identify **five** activities carried out in management of amoebic dysentery. (5 marks)
- c) Explain **three** disadvantages of open drainage in an area. (6 marks)
- d) List **four** laundry processes. (2 marks)

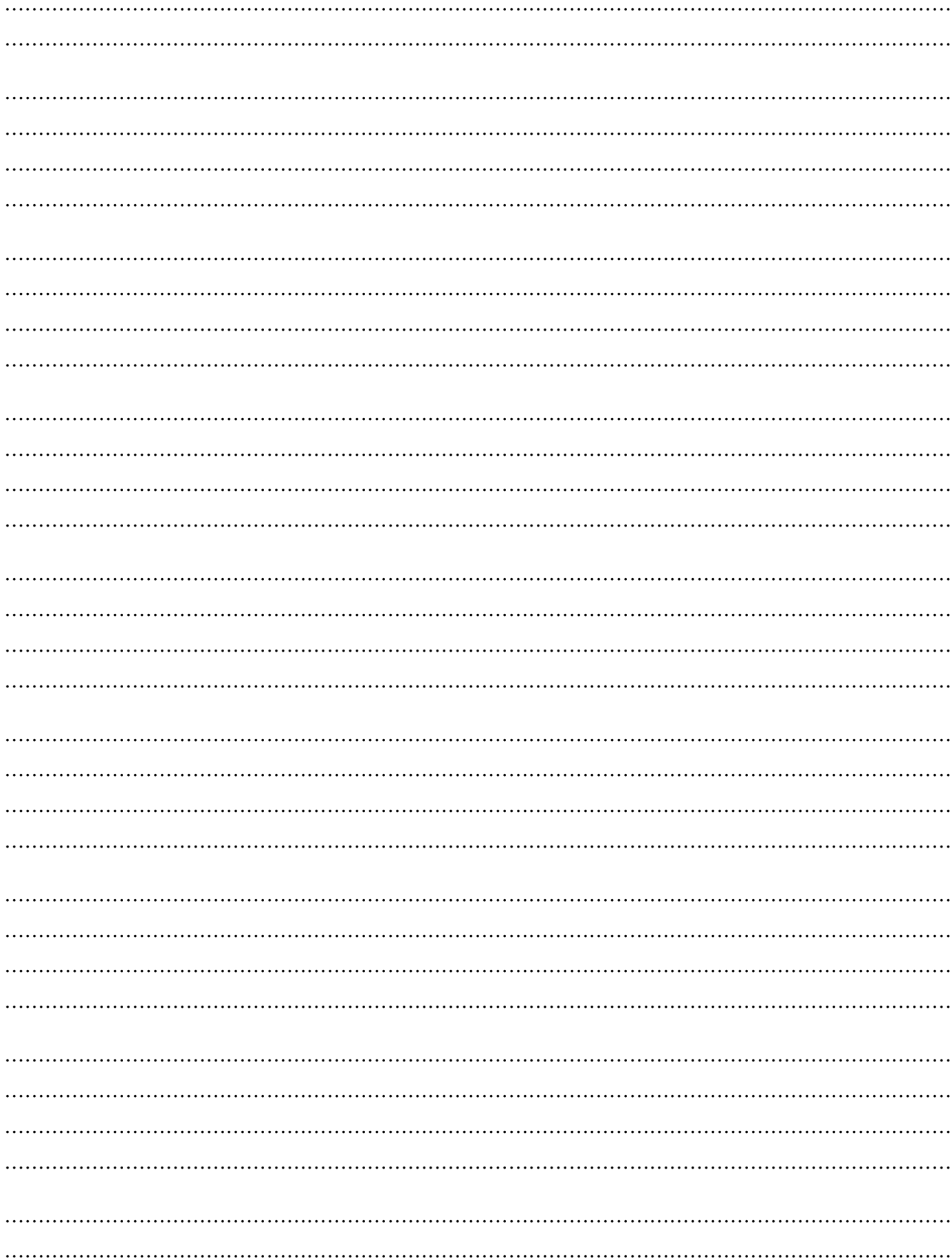
23.

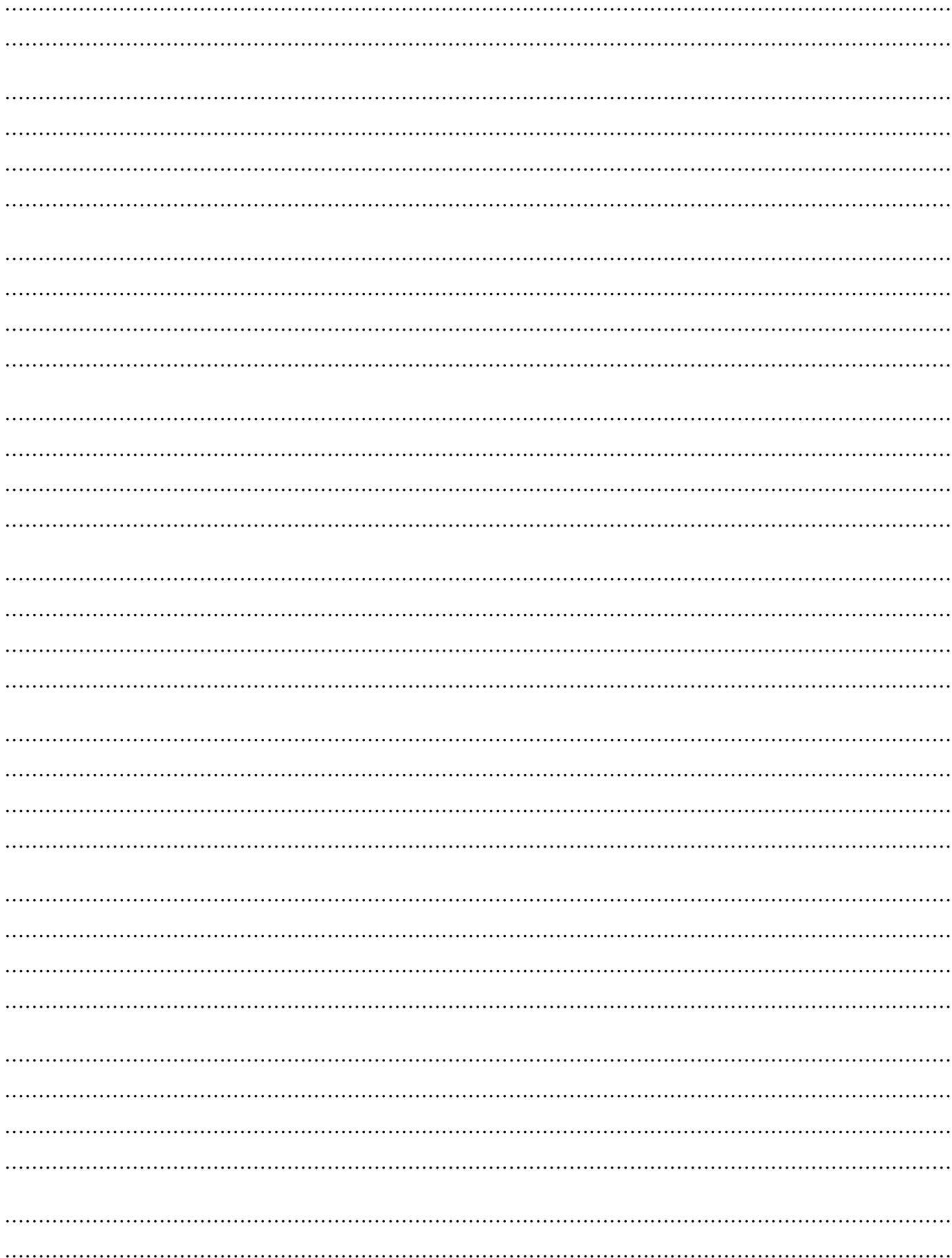
- a) Discuss **three** treatments why may be done to clothes and article during the rising stage. (6 marks)
- b) List **four** fabrics which cannot be disinfected by boiling. (4 marks)
- c) Discuss three rules for darning. (6marks)
- d) Draw the following washing symbols
- i. Don't dry in the sun (1 mark)
- ii. Hang on the line to dry (1 mark)
- iii. Do not tumble dry (1 mark)
- iv. Use cool iron (1 mark)

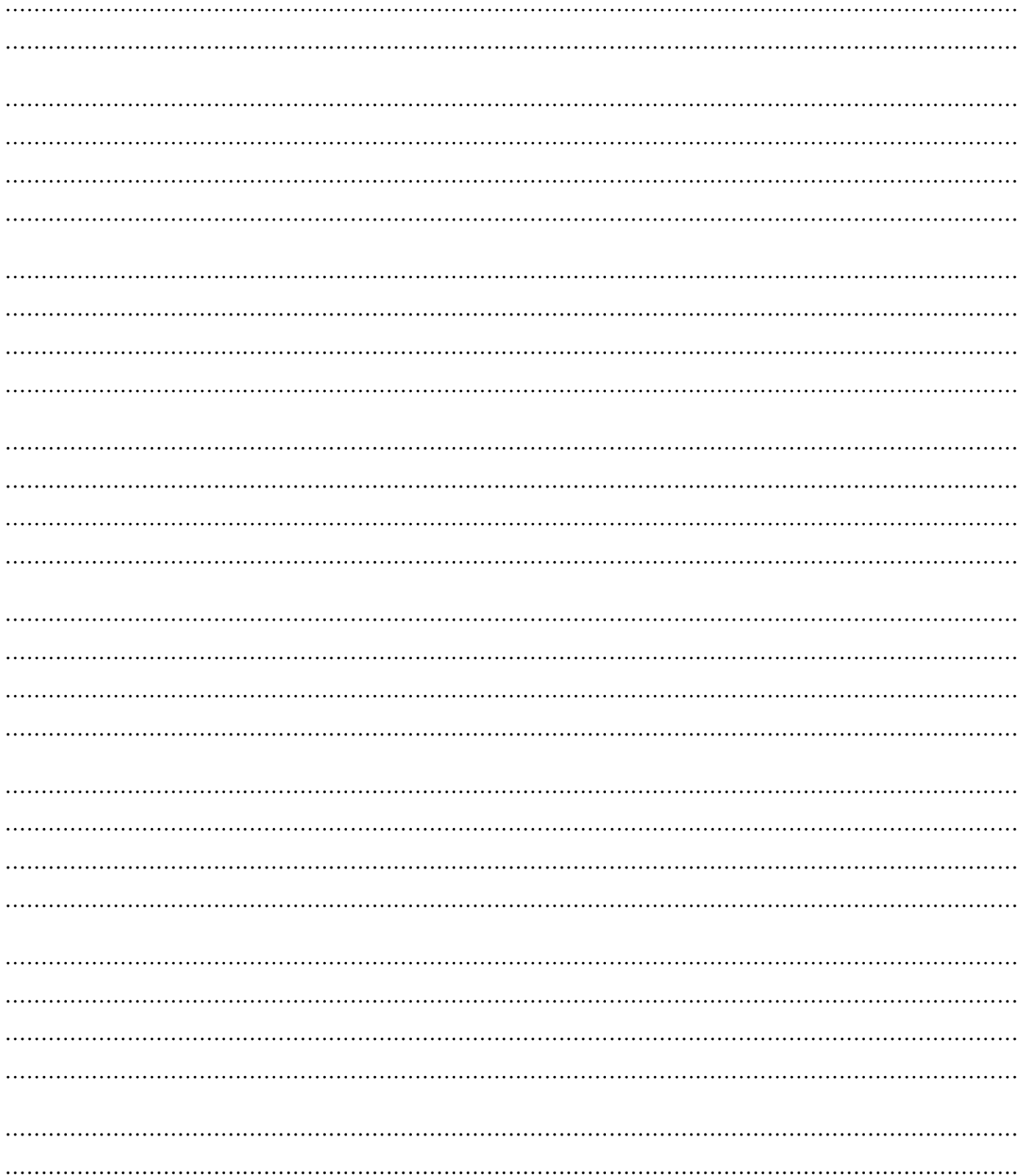
24.

- a) Explain **three** causes of malnutrition (6 marks)
- b) List **four** sources information for the consumers. (4 marks)

- 
- This image shows a full page of white paper with horizontal dotted lines. The lines are evenly spaced and run across the width of the page, providing a guide for handwriting practice. There are no margins, text, or other markings on the page.







**GOLDLITE EXAMS**

**JINA:** .....

**NAMBARI YAKO:** .....

**SAHIHI:** .....

**TAREHE:** .....

102

KISWAHILI

MUDA: SAA 2 ½

**OPENER EXAMINATION: TERM 1 2025  
KIDATO CHA TATU**

**MAAGIZO**

**JIBU MASWALI YOTE**

*Kwa matumizi ya mtahini pekee.*

	<b>SWALI</b>	<b>UPEO</b>	<b>ALAMA</b>
<b>1.</b>	INSHA	20	
<b>2.</b>	UFAHAMU	15	
<b>3.</b>	SARUFI NA MATUMIZI YA LUGHA	30	
<b>4.</b>	ISIMUJAMII	10	
<b>5.</b>	FASIHI SIMULIZI	15	
<b>6.</b>	USHAIRI	10	
	<b>JUMLA</b>	100	



**INSHA(ALAMA 20)**

Wewe ni mwanahabari wa Gazeti la Angaza. Andika mahojiano yako na mkuu wa elimu kuhusu matokeo duni ya mtihani wa kitaifa miongoni mwa shule za kaunti yako.

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## UFAHAMU(ALAMA 15)

Hivi majuzi ulimwengu uliadhimisha Siku ya Kimataifa ya kukabili majanga kote duniani. Hata hivyo, ni kama Kenya inaendelea kupiga hatua nyingi kurudi nyuma. Mataifa yalipokutana mjini Sendai, Japan yalikubaliana kuwa na mpango wa kutoa tahadhari mapema na kupunguza athari za majanga kufikia mwaka wa 2030. Kenya ilikuwa kati ya mataifa yaliyoidhinisha makubaliano hayo. Yakijulikana maarufu kama “Sendai Framework”, makubaliano hayo yanalenga kupunguza kwa kiasi kikubwa athari za majanga, kupoteza maisha ya watu, mali zao, afya, uchumi na mazingira yao kwa jumla.

Wakati mataifa mengine yakiwa yamepiga hatua katika kuyafikia malengo hayo, hapa Kenya haijulikani ni jinsi gani tutawasaidia mamilioni ya watu wanaoathiriwa na kiangazi. Tumekuwa nchi ambayo kukinyesha ni laana na kukikosa kunyesha ni laana pia. Miaka miwili iliyopita, mvua ndogo iliyonyesha ilisababisha vifo vya zaidi ya watu 50 katika Kaunti ya Pokot Magharibi. Jijini Nairobi na katika maeneo ya Pwani, mijengo ilianguka, kuta zikaporomoka na kujeruhiwa au kuua watu, kati ya mikasa mingine.

Kenya ni nchi ambayo viongozi wake na watu waliopewa jukumu la kuunda sera za kuwalinda wananchi dhidi ya majanga, huidhinisha ujenzi bila kujali ubora wa vifaa, kanuni za ujenzi na hatimaye watu huangamia kwa kuangukiwa na majumba hayo, kama ilivyokuwa siku chache zilizopita katika Kaunti ya Kiambu. Kufikia sasa, tunapoadhimisha siku hii, hakuna taarifa rasmi ya Wizara ya Ujenzi kuhusu kilichosababisha jumba hilo kuporomoka. Hakuna taarifa kuhusu hatua alizochukuliwa mmiliki wa nyumba hiyo, mkandarasia au maafisa wa serikali ya Kaunti ya Kiambu wanaosimamia mipango ya miji.

Kama majanga yanayoweza kuzuiwa yametushinda, haitarajiwi kwamba tutakuwa na maarifa ya kuwaondolea balaa la hasara maelfu ya wafugaji wanaopoteza mifugo yao kupitia kiangazi. Ukame si hali ambayo watu huamka asubuhi tu na kuikuta kama unavyomea uyoga. Ni ukavu unaoanza pole pole ilhali serikali ina idara ya kukabili majanga, bado kuna wizara zinazohusika na maeneo kame, mifugo, unyunyizaji maji na kadhalika. Wizara hizo zimetengewa mamilioni kwenye bajeti iliyosomwa mwezi Juni mwaka huu.

Pesa hizi hazitarajiwi kuwa za kutatua shida ya kiangazi. Kama ilivyo kwamba kinga hushinda tiba, serikali kupitia wataalamu wanaolipwa mamilioni kwa mwaka, ingetambua tatizo la kiangazi na kujiandaa, badala ya kushinda ikilaumu mabadiliko ya tabia-nchi. Kwa kuwa Kenya imeshachelewa, kilichobaki ni kuokoa maisha ya wanaokodolea macho mauti kutokana na kiu na njaa.

### Maswali

a) Eleza makubaliano yaliyoafikiwa katika mkutano wa Sendai. (al. 2)

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.....

b) Taja athari za majanga ambazo makubaliano hayo yanalenga kupunguza. (al. 5)

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c) Nchi ya Kenya haijapiga hatua kukabiliana na kiangazi. Thibitisha. (al. 2)

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.....

d) Ni kwa nini viongozi na wanaounda sera za kuwalinda raia dhidi ya ujenzi wa nyumba nchini wanaelekezewa lawama? (al. 2)

.....

.....

e) “Kinga ni bora kuliko tiba.” Eleza serikali yetu inapaswa kufanya nini kukabiliana na kiangazi. (al.2)

.....

.....

f) Eleza maana ya maneno yafuatayo kama yalivyotumika: (al. 2)

i) kiangazi .....

ii) mkandarasi .....

## **MATUMIZI YA LUGHA**

a) Taja sauti mbili zinazotamkwa ufizini. (al. 2)

.....

.....

b) Andika sauti mwambatano inayotamkiwa mdomoni. (al. 1)

.....

c) Tunga sentensi moja inayodhihirisha matumizi ya kivumishi cha pekee kilicho na maana ya kuisisitiza. (al. 2)

.....

d) Unda vitenzi kutokana na maneno yafuatayo: (al. 2)

i) msamaha

.....

ii) safari

.....

e) Ainisha mofimu katika neno lifuatalo. (al. 3)  
Aliyeangukia

.....

.....

.....

f) Weka shadda katika neno lifuatalo. (al. 1)  
Walakini (hata hivyo/kiunganishi)

.....

g) Andika kwa udogo wingi. (al. 2)  
Nyoka aliyekuwa na mkia mrefu aliingia nyumbani polepole.

.....

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h) Kwa kutoa mifano miwili eleza miundo miwili ya nomino katika ngeli ya A-WA. (al. 2)

.....

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i)Taja matumizi mawili ya parandesi. (al. 2)

.....

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j)Tambulisha nyakati na hali za sentensi zifuatazo. (al. 2)

i) Naja

.....

ii) Nilikuwa nimeketi hapo nje

.....

k) Andika sentensi hii katika usemi wa taarifa. (al. 2)

“Nitampokea mjomba iwapo nitampata”. Mwende alimwambia shangazi yake.

.....

.....

l) Changanua sentensi hii ukitumia njia ya mistari. (al. 3)  
Mtoto mdogo alianguka pu!

.....

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.....

m) Nyambua vitenzi vifuatavyo katika kauli kwenye mabano. (al. 2)

i) chukua (kutendeka) .....

ii) toka (kutendesha) .....

n) Tambua virai katika sentensi hii. (al. 2)

Ukweli wa mtoto yule ulitufurahisha sote.

.....

.....

o) Toa kisawe cha sahibu. (al. 1)

.....

p) Kiimbo ni nini? (al. 1)

.....

.....

## **ISIMUJAMII**

**(alama 10)**

Dawa ya mende, coackroach murderer, dawa ya mende. Maliza mende wote one-touch!

a) Hii ni sajili gani? (al. 2)

.....

.....

b) Eleza sifa zozote nane za sajili hii. (al. 8)

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**FASIHI SIMULIZI**

**(AL. 15)**

a) Tambua tanzu zozote tatu kuu za fasihi simulizi.

(al. 3)

.....

.....

.....

b) Eleza umuhimu wa fomyula ya kuhitimisha katika ngano.

(al. 2)

.....

.....

.....

c) Andika sifa tatu za mighani.

(al. 3)

.....

.....

.....

d) Methali na vitendawili hufanana kwa njia gani.

(al. 3)

.....

.....

.....

.....

e) Eleza majukumu mawili ya bembea.

(al. 2)

.....

.....

f) Taja sifa mbili za mwigizaji bora.

(al. 2)

.....

.....



## USHAIRI

Soma shairi lifuatalo kisha ujibu maswali:

Ajaye kisimani mbele, hunywa maji maenge,  
Asinywe yalo na vunju,  
Yakampa kigegezi  
Yakamtibua roho akaona na kinyaa,  
Awali ndio awali awali mbovu hamna.

Ikiwa utalimatia,  
Utayaramba makombo,  
Uvidata vitu cheche  
Kisoma aali kikupe kisogo,  
Inajuzu ujihimu  
Mwanafuu darasani  
Uraukapo bukrata  
Katu hutayaramba makombo  
Hutokosa kisebeho.

Dereva nawe utingo,  
Natija ni asubuhi,  
Wateja utawawahi,  
Wasaa kuzingatia,  
Uwafikishe kazini,  
Kwa wasaa ufaao,  
Wasije Wakateteshwa na  
bosi wao nao wakuapize

Nawe mwanazaraa,  
Mpini uukamate kabla,  
Jua kutiririsha majasho jasadini,  
Ushidwe kung'oa magugu,  
Kutoka kwa lako konde.

Mhadimu mwenye zohali,  
Yajuzu ujihimu  
Maziwa ununue majogoo  
Usije ukayadata na hivyo  
Ukaandaa chai ya mkandaa  
Wateja wakuambae mithili ya ibilisi.

a) Thibitisha kuwa hili ni shairi huru kwa kutoa hoja nne. (al. 4)

.....

.....

.....

.....

b) Huku ukitoa mfano, taja mbinu zozote mbili za lugha zilizotumiwa na mtunzi wa shairi hili. (al. 2)

.....

.....

c) Kwa mujibu wa mshairi, mwanafunzi anahimizwa kurauka mapema kwa sababu gani? (al. 2)

.....

.....

d) Eleza maana ya maneno yafuatayo kama yalivyotumika kwenye shairi hili. (al. 2)

i) makombo

.....

ii) mwanazaraa

.....

## GOLDLITE ONLINE EXAMS

NAME ..... ADM NO..... DATE .....

SCHOOL..... SIGNATURE .....

### OPENER EXAMINATION: TERM 1 2025

121

MATHEMATICS

FORM 3

TIME: 2 ½ HOURS

### 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)**

1. Use tables of logarithms to evaluate; (3 marks)

$$\sqrt[3]{\frac{(0.07432)^2 \times 48.38}{8458}}$$

2. The length, width and height of cuboid of mass 40g, are 10 cm, 5 cm and h cm respectively. If it has a density of  $0.02g/cm^3$ , calculate the height of the Cuboid. (3 marks)

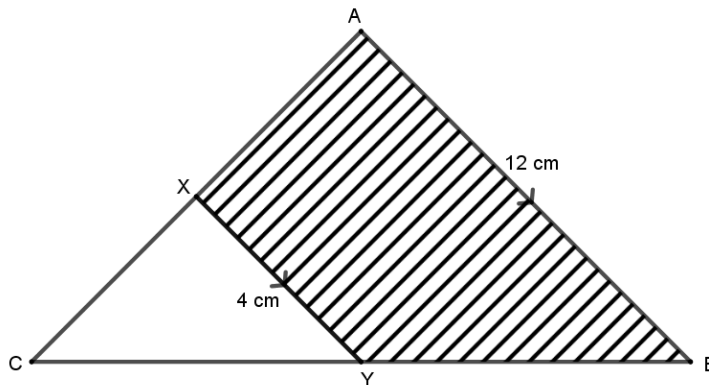
3. A man walks directly from point Q towards the foot of a vertical flag post 200 m away, after covering a distance of 140m , he observes the angle of elevation of the top of the flag post is  $75^\circ$ . Calculate to 2 decimal places
- a) The height of the flag post (2 marks)

- b) The angle of elevation from point Q to the top of the flag post (2 marks)

4. Without using mathematical tables or calculator evaluate (3 marks)
- $$\frac{27.72 \times 0.3876}{2.09 \times 0.4284}$$

5. Evaluate  $\sqrt[3]{27x^3y^9}$  (2 marks)

6. In the figure below lines AB and XY are parallel  $AB = 12 \text{ cm}$  and  $XY = 4 \text{ cm}$



If the area of the shaded region is  $36 \text{ cm}^2$ . Find the area of the triangle CXY (3 marks)

7. Given that  $\cos \phi = \frac{8}{10}$ , without using mathematical tables express in fraction form the value of

a)  $\sin \phi$  (2 marks)

b)  $\tan (90 - \phi)$  (1 mark)

8. Given that  $\tilde{P} = 5\check{a} - 2\check{b}$  where  $\check{a} = \begin{pmatrix} 3 \\ 2 \end{pmatrix}$  and  $\check{b} = \begin{pmatrix} 4 \\ 1 \end{pmatrix}$ . Find:

a) Column vector **P**.

(2 marks)

b)  $P'$  the image of P under a translation vector  $\begin{pmatrix} -6 \\ 4 \end{pmatrix}$ .

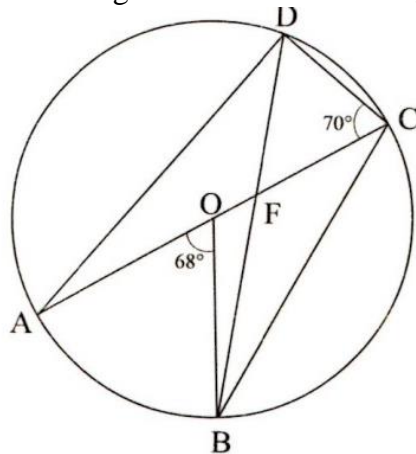
(1 mark)

9. Simplify

$$\frac{3x^2 - 4xy + y^2}{9x^2 - y^2}$$

(3marks)

10. The figure below shows a circle centre **O** and **AOC** as its diameter .Chords **BD** and **AC** intersect at **F** . Given that angle **AOB** = **68°** and angle **ACD** = 70°



.Find the size of

a) Angle **DAC**

(1 mark)

b) Angle **BFC**

(2 marks)

11. Find the value of  $x$  in the equation  $81^x \times \frac{1}{3} \times 9^{2x} + 74 = 317$

(3 marks)

12. Find the surface area of a cone whose diameter is 12cm and height 8cm

(3 marks)

13. Three automatic electric bells A, B and C ring at intervals of 20 minutes, 30 minutes and 50 minutes respectively. If the bells ring together at 8.20 a.m, at what time will they ring simultaneously again for the first time.

(3 marks)

14. The equation of a line is  $-\frac{3}{5}x + 3y = 6$

Find the:

a) Gradient of the line.

(1 mark)

- b) Equation of a line passing through point (1, 2) and perpendicular to the given line. (2 marks)

15. The area of a rhombus is  $60\text{cm}^2$ . If the shorter diagonal is 8cm, Find the perimeter of the rhombus (4 marks)

16. State all the integral values of x that satisfy the following inequality. (3 marks)

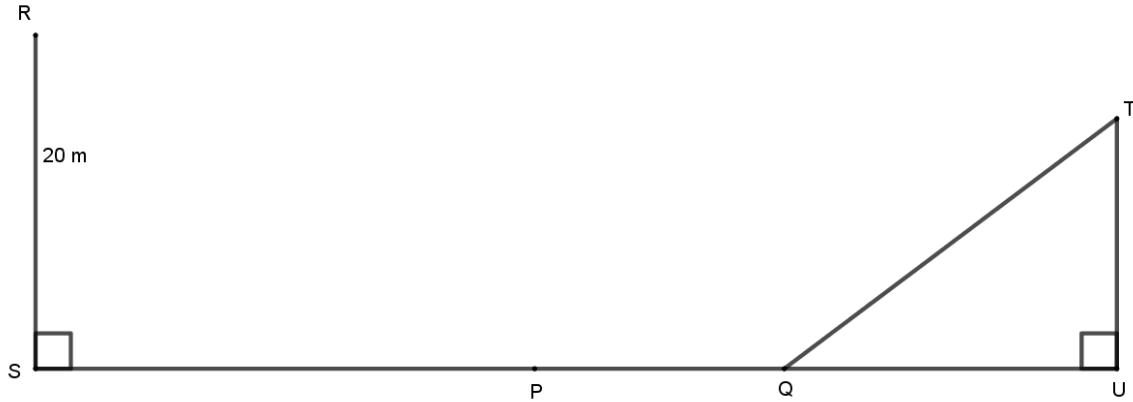
$$2x - 3 \leq 3x + 5 \leq 7x + 6$$



**SECTION II (50 marks)**

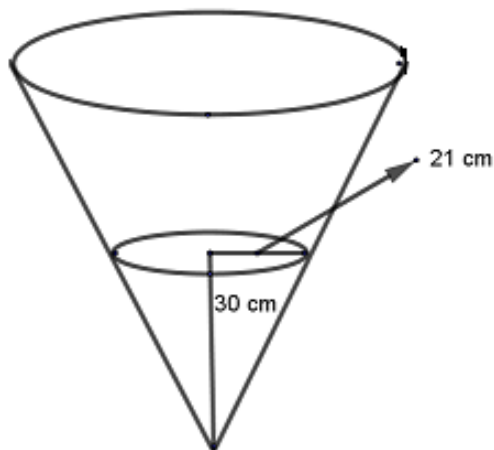
**Attempt ALL questions in the spaces provided in this section**

17. The diagram below represents two vertical watch towers RS and TU on a level ground. P and Q are two points on a straight road SU. The height of the tower RS is 20 m and road SU is 200m.



- a) A bus moves from S towards U. At point P, the angle of depression of the bus from point R is  $11.3^\circ$ . Calculate the distance SP to 4 significant figures. (2 marks)
- b) If the bus takes 5 seconds to move from P to Q at an average speed of 36 km/h, calculate the angle of depression of Q from R to 1 decimal place. (3 marks)
- c) Given that  $QT = 50.9$  m, calculate;
- The height of TU in metres to 1 decimal place. (2 marks)
  - The angle of elevation of R from T to the nearest degree. (3 marks)

18. The diagram below represents a conical vessel which stands vertically .The vessel contains water to a depth of 30cm .The radius of the surface with water in the vessel is 21cm .(Take  $\pi = \frac{22}{7}$ )



- a) Calculate the volume of the water in the vessel in  $cm^3$  (3 marks)
- b) When a metal sphere is completely submerged in the water ,the level of water in the vessel rises by 6cm. Calculate
- The radius of the new water surface in the vessel (2 marks)
  - The volume of the metal sphere in  $cm^3$  (3 marks)
  - The radius of the sphere (2 marks)

19. Using a pair of compasses and ruler only;

a) Construct triangle ABC such that  $AB = 8\text{cm}$ ,  $BC = 6\text{cm}$  and  $\angle ABC = 30^\circ$ . (3 marks)

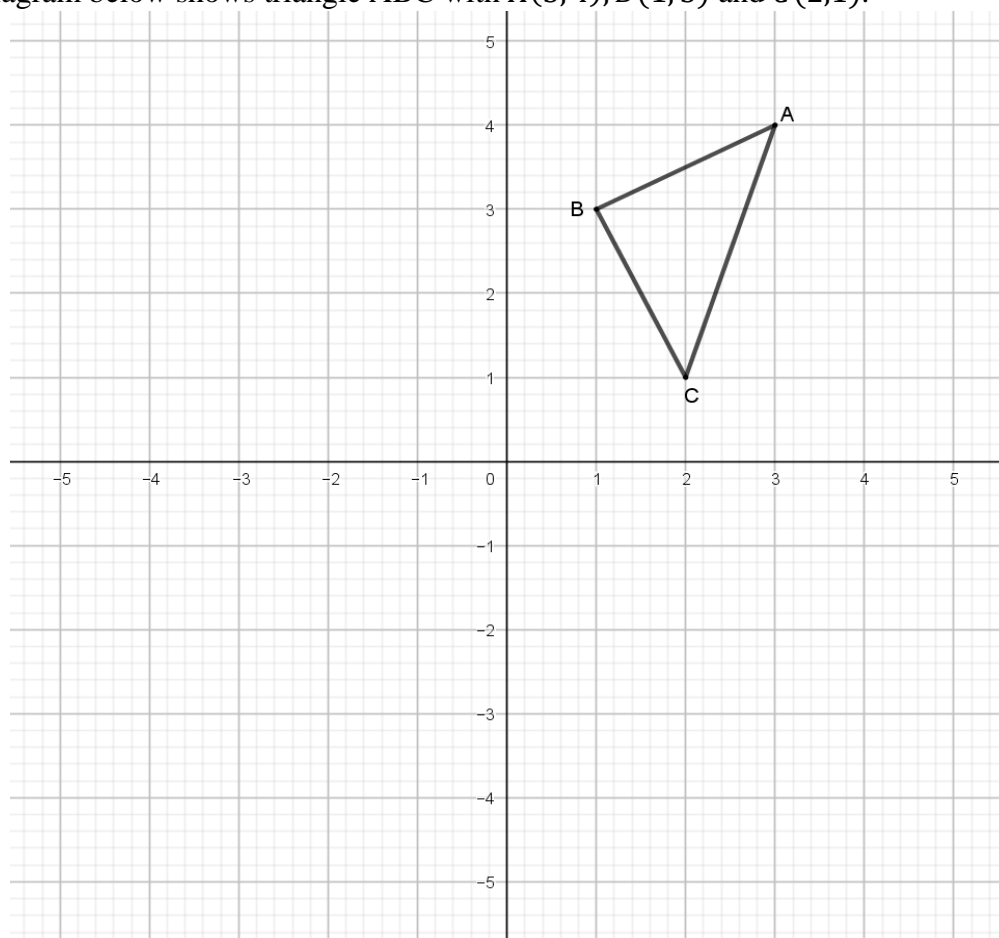
b) Measure the length of AC (1 mark)

c) Draw a circle that touches the vertices A,B and C. (2 marks)

d) Measure the radius of the circle (1 mark)

e) Hence or otherwise, calculate the area of the circle outside the triangle. (3 marks)

20. The diagram below shows triangle ABC with  $A(3, 4)$ ,  $B(1, 3)$  and  $C(2, 1)$ .



- Draw  $\Delta A'B'C'$  the image of  $\Delta ABC$  under a rotation of  $+90^\circ$  about  $(0, 0)$ . (2 marks)
- Draw  $\Delta A''B''C''$  the image of  $\Delta A'B'C'$  under a reflection in the line  $y - x = 0$ . (2 marks)
- Draw  $\Delta A'''B'''C'''$  the image of  $\Delta A''B''C''$  under a rotation of  $-90^\circ$  about  $(0, 0)$ . (2 marks)
- State the coordinates of triangles  $\Delta A''B''C''$  and  $\Delta A'''B'''C'''$ . (2 marks)
- Write down the equation of the lines of symmetry of the quadrilateral  $A'''A'$ . (2 marks)

21. The mass in kilograms of 30 patients who attended a clinic on a certain day were recorded as follows:

38	52	46	60	39	62	73	49	54	49
41	57	58	79	62	58	54	65	56	69
72	58	42	41	67	49	51	54	59	60

- a) Starting with a class width of **35 – 39** ...make a frequency distribution table for the data indicating the class and frequency (3 marks)

- b) State the modal class (1 mark)

- c) Calculate the median mark (3 marks)

- d) Calculate the median mark (3 marks)

## GOLDLITE EXAMS

NAME: ..... ADM NO..... CLASS: .....

**PHYSICS**

**FORM 3**

**OPENER EXAMINATION: TERM 1 2025**

**Time: 2 Hours 30 mins**

### **INSTRUCTIONS TO CANDIDATES:-**

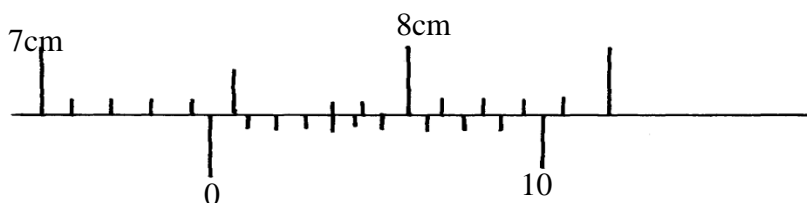
- Write your name, Admission number and class in the spaces provided above.
- This paper consists of two sections; A and B
- Answer all the questions in section A and B in the spaces provided
- All working must be clearly shown.
- Mathematical tables and electronic calculators may be used
- This paper consists of 12 printed pages. Candidates should check to ascertain that all pages are printed as indicated and that no questions are missing.
- Candidates should answer the questions in English.
- Take  $g=10\text{N/kg}$

### **For Examiner's Use Only:**

Section	Question	Maximum Score	Candidate's Score
A	1 – 16	40	
	17 -22	60	
Total Score		100	

## **SECTION A (40 MARKS)**

1. The figure below shows part of scale of vernier calipers.



What is the reading indicated on the scale ..... (1mk)

2. Distinguish between mass and weight of a body in terms of definition, stating the S.I units for each. (2mks)

.....

.....

.....

3.  $180\text{cm}^3$  of fresh water of density  $100\text{kg/m}^3$  is mixed with  $2200\text{cm}^3$  of sea water of density  $1025\text{kg/m}^3$ . Calculate;

a) The mass of fresh and sea water. (2mks)

.....

.....

.....

b) The density of the mixture (2mks)

.....

.....

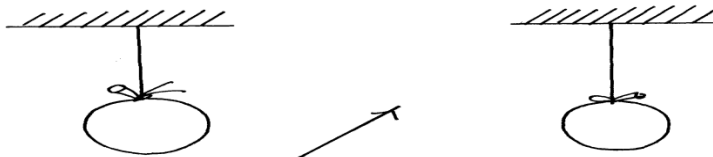
.....

4. Explain why fish can survive under water when the surface is already frozen (2mks)

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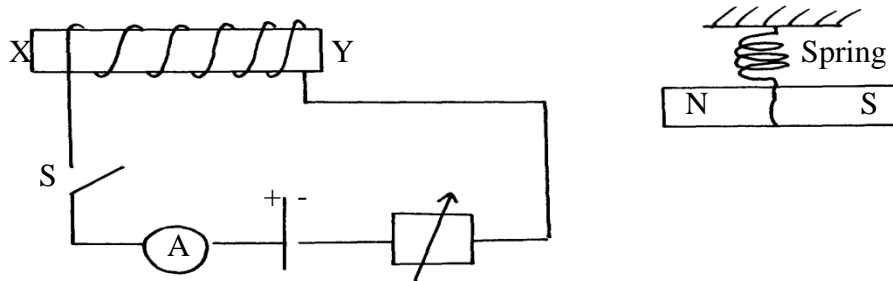
5. Two inflated balloons are at the same level while suspended from threads a short distance apart as shown below;



Some air is blown gently in the space between the balloon in horizontal direction as shown by the arrow. Explain what happens to the balloons. (2mks)

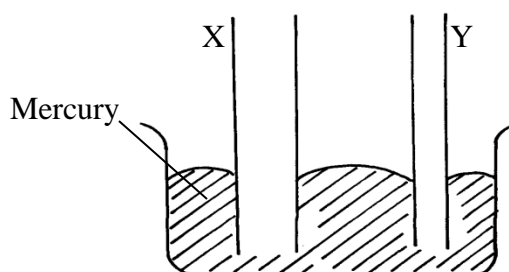
6. State **one** advantage of an alkaline battery over a lead acid battery. (1mk)

7. The diagram below shows a permanent magnet suspended by a spring. State with reason the behaviour of the magnet when the switch is closed. (2mks)



8. Convection and diffusion both involve motion of fluids. Distinguish between the two. (2mks)

9. Indicate on the diagram below, the level of mercury in the tubes **X** and **Y** (2mks)

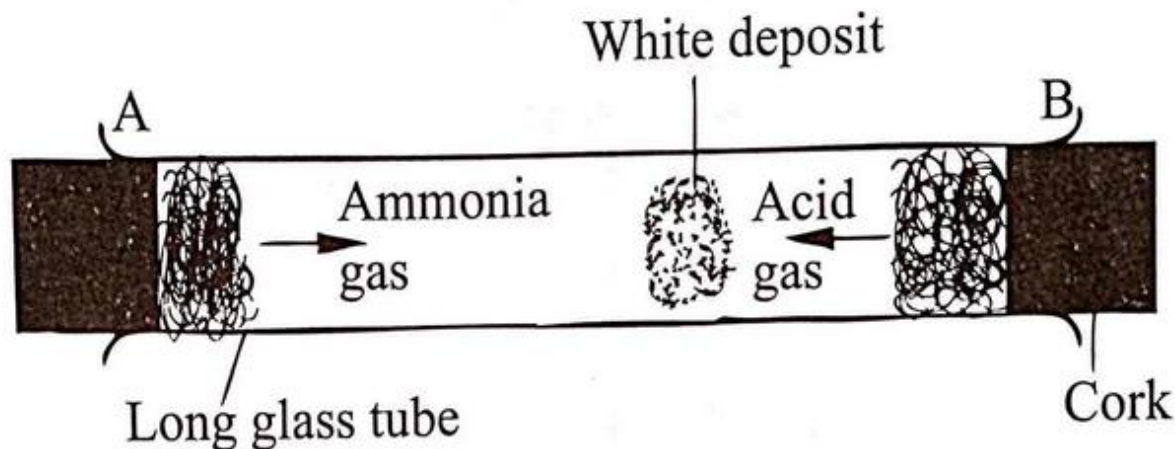


10. An object weighs 1200N on a certain planet. What is the gravitational field strength of this planet if the object is 60kg? (3mks)

11. State **two** properties of a good thermometric liquid. (2mks)



12. The figure below, ammonia gas and an acid gas diffuse and react to form a white deposit on the walls of the glass tube, the deposit forms nearer end B.



- a) State which gas diffused faster. (1mk)
- b) Explain how the rate of diffusion depends on the density of a gas. (2mks)
- c) Explain the effect of performing the experiment above at a higher temperature. (2mks)

13. a) What is the purpose of a translucent screen on the Pinhole camera. (1mk)

- b. Give two characteristics of image formed by a pinhole camera. (2mks)

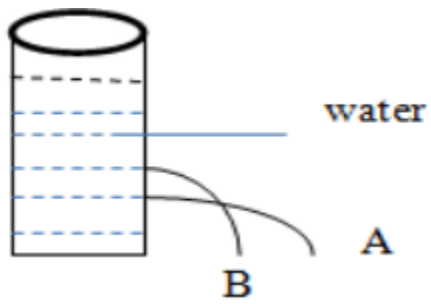
- c. The distance between the pinhole and screen of a pinhole camera is 10cm. the height of the screen is 20cm. at what minimum distance from the pinhole must a man 1.6m tall stand if a full length image is required? (3mks)

14. State any two forces that act between two objects not in contact. (2mks)

15. When a metal cube is heated state what happens to the following. (2mks)

- i. Mass.....
- ii. Density.....

16. The diagram below shows jets from two holes at the side of a tank filled with water. Explain why Jet A is longer than B (2mks)



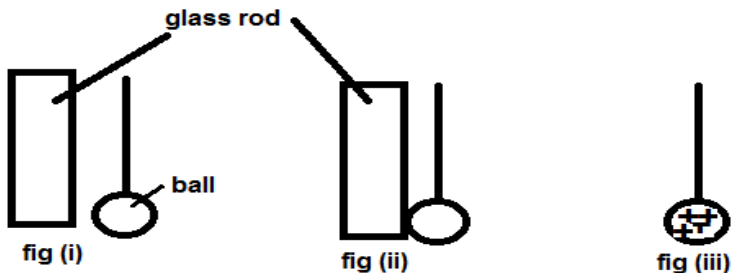
## SECTION B (60 MARKS)

17. (a) State the basic law of electrostatic charges (1mk).

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.....

(b) A form 2 student charged a polystyrene ball positively by contact method as shown.



Indicate the charges on glass rod and ball in fig (I) and fig (ii) (2mks)

(c) State two (2) uses of an electroscope (2mks)

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18. (a) Define ELECTRIC CURRENT , stating its SI units (2mks)

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(b) A battery circulates charge Round a Circuit for 1.5 Minutes. If The Current Is Held at 2.5 A, determine the quantity of charge passing through the wire. (3mks)

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(c) State two (2) disadvantages of alkaline accumulators over lead acid accumulators (2mks)

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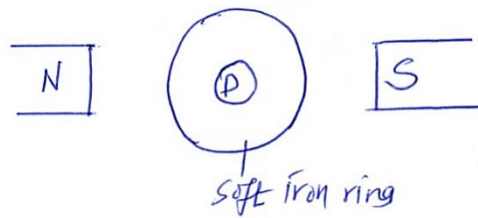
(d) What do you understand by a closed circuit? (1mk)

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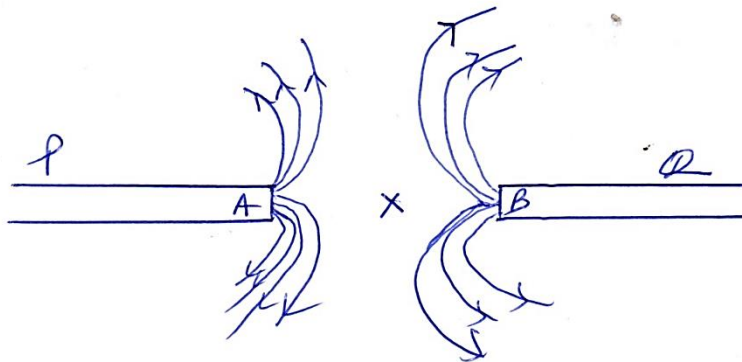
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19

- (a) A soft iron ring is placed between a north and a south pole of two bar magnets as shown. Show by drawing how the magnetic lines of force between the N and S Poles Interact With The Soft Iron Ring(2mks)



- (b) The diagram below shows the magnetic field pattern between two magnets P and Q



- a. Identify poles A and B (2mks)

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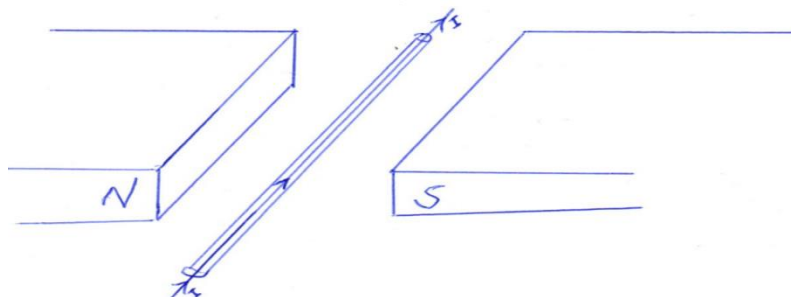
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- b. State which of the two magnets P and q is stronger and explain (2mks)

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20. (a) The figure below shows a current carrying conductor in a magnetic field



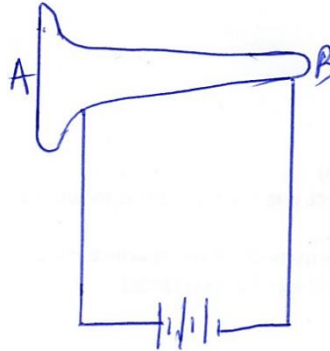
(i). Mark on the figure the direction of the forces acting on the conductor (1 mks)

(ii). State two ways of increasing the force on the conductor. (2mks)

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(c) The figure below shows a nail on which a wire is to be wound to make an electromagnet.



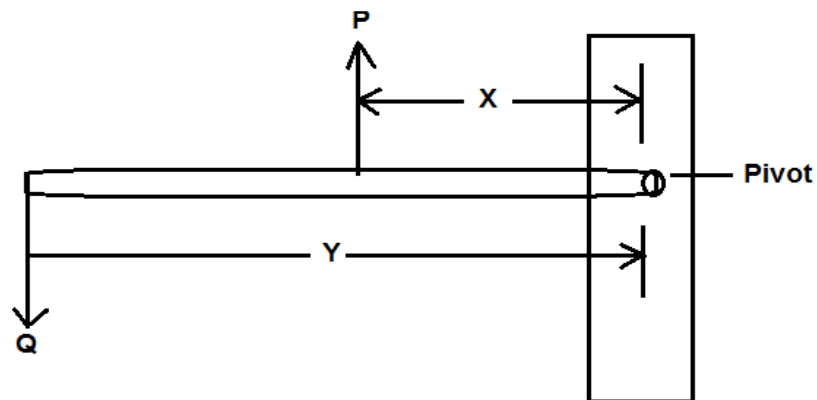
By drawing, show how the wire should be wound around the nail so that the ends A becomes a north pole and end B South Pole (1mk)

21. (a) Define moment of a force (1mk)

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(b) The figure below shows a beam of negligible weight balanced by constant forces P and R. derive the relationship between X and Y (2mks)

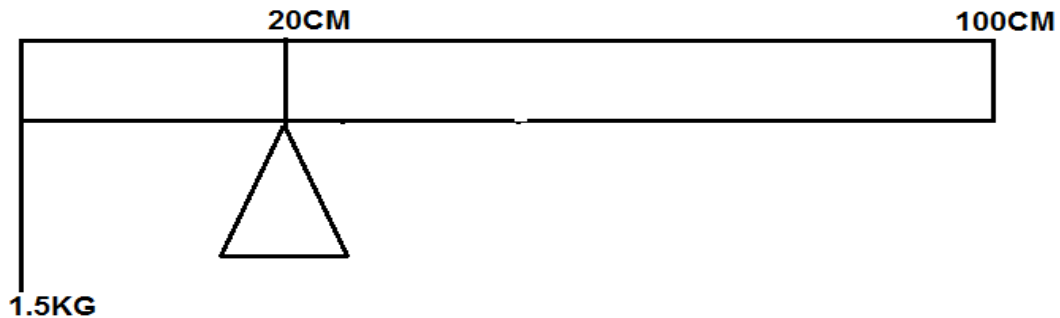


22. (a) State what is meant by centre of gravity of a body (1mk)

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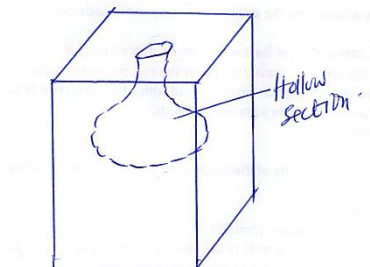
(b) State the principle of moment (1mk)

(c) A uniform metal bar 100cm balances at 20cm when the mass of 1.5kg is attached at 0cm mark as shown below. Determine the weight of the bar. (Take  $g = 10\text{N/kg}$ ) (3mks)



(d) State two (2) factors which affect the stability of a body (2mks)

(e) The figure below shows a rectangular block of wood with a hollow section (inside) at the position shown. The block is resting on a horizontal bench.



a. State the effect on the stability of the block when the hollow section is filled with water (1mk)

b. Explain your answer in (i) above (2mks)

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23. (a) Define the following terms as used in curved mirrors:

a. The POLE (1mk)

.....

.....

b. Centre of CURVATURE (1mk)

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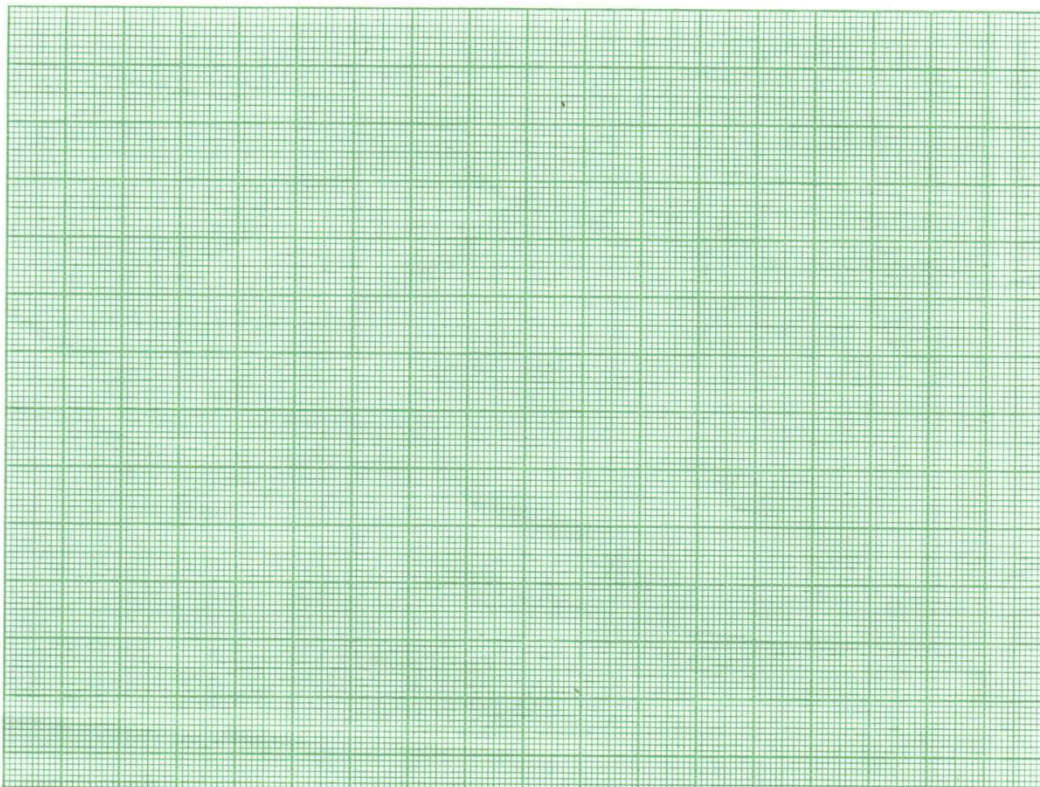
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c. PRINCIPAL FOCUS for a concave mirror (1mk)

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(b) An object pin of height 3cm is placed 11 cm in front of a concave mirror of focal length 3cm. by scale drawing determine



(i). Image distance (2mks)

.....

.....

(ii).Height of the image (2mks)

.....

.....

(iii). Magnification of the image (2mks)

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(c) Give two advantages of convex mirror (2mks)

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24. (a) Differentiate between electromagnetic waves and mechanical waves (1mk)

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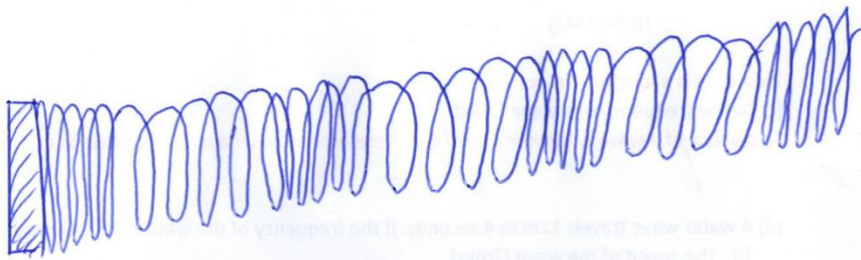
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(b) A long slinky spring is attached to a vibrating blade as shown in the figure below.  
(i) State the type of mechanical wave generated by the set up (1mk)

.....

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(ii) Mark alongside the coil, the length corresponding to the wavelength of the wave (1mks)



(c) Define frequency of a wave (1mk)



- .....
- .....
- (d) A water wave travels 12m in 4 seconds. If the frequency of the wave is 2HZ. Determine:
- a. The speed of the wave (2mks)

- .....
- .....
- b. The wavelength of the wave (2mks)

- .....
25. (a) State two (2) sources of sound (2mks)

- .....
- .....
- (b) A girl standing 600m away from a cliff bangs two pieces of wood together and hears an echo 3.5 seconds later. Determine the speed of sound in air at that place. (3mks)

- .....
- (c) State one factor that affects the speed of sound in a solid (1mk)