EXCELLING STUDENTS FORM 2 END TERM 2 HYBRID EXAMS *(ALL SUBJECTS TESTED)*

EXCELLING STUDENTS FORM TWO END TERM TWO HYBRID EXAMS

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ORDER OF THE 14 SUBJECTS TESTED *(ALPHABETICALLY ARRANGED)*

1. **AGRICULTURE**
2. **BIOLOGY**
3. **BUSINESS STUDIES**
4. **CHEMISTRY**
5. **COMPUTER**
6. **C.R.E**
7. **ENGLISH**
8. **GEOGRAPHY**
9. **HISTORY**
10. **HOMESCIENCE**
11. **I.R.E**
12. **KISWAHILI**
13. **MATHS**
14. **PHYSCIS**

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EXCELLING STUDENTS FORM TWO

END TERM 2 HYBRID EXAMS

NAME: ……..

SHOOOL: ……

ADM NO: ……. SIGN:……..… DATE: ……..

AGRICULTURE/443

FORM TWO (2)

Time: 2 Hours

INSTRUCTIONS TO CANDIDATES

1. *Write your name and index number in the spaces provided.*

2. This paper consists of three sections. Section A, B and C.

3. Answer all questions in section A and B in the spaces provided.

4. Answer ANY TWO questions in section C in the spaces provided.

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SECTION	TOTAL MARKS	STUDENTS SCORE

PERCENTAGE SCORE

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SECTION A (30 MARKS)

1.Define the following terms as used in crop production. **(10mks)**

a.Hardening off

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b. Grafting

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c.Budding

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d. Layering

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e.Pricking out

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f. Mixed cropping

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g.De-suckering

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h. Training

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i. Earthing lip

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j. Mulching

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

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3.State **four** disadvantages of multiple stem pruning. **(4mks)**

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4.Name the various tools used in pruning. **(2mks)**

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5.State **three** dual purpose cattle breeds. **(1½mks)**

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6.State **four** factors to consider when siting a compost manure. **(2mks)**

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7.State **four** characteristics of fertile soils. **(2mks)**

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8.State **three** disadvantages of sub-surface irrigation. **(1½mks)**

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9.State **four** factors that determine the number of time secondary cultivation is done. **(2mks)**

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10. What is soil structure? **(1mk)**

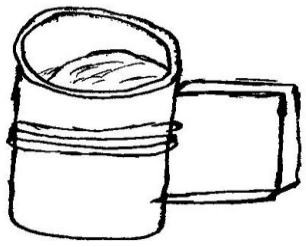
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SECTION B (20 MARKS)

11. (i) Study the diagram below



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(a) Identify if the tool as used in livestock production. **(1mk)**

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(b) State **one** use of the tool in (a) above. **(1mk)**

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(c) State any other tools in the same category as (a) above. **(2mks)**

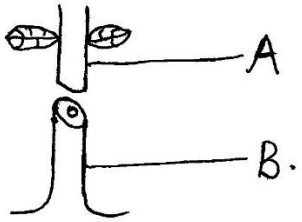
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12. Study the diagram below on method of crop propagation.



(a) State the parts A and B. on the diagram. **(1mk)**

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(b) State the method above. **(1mk)**

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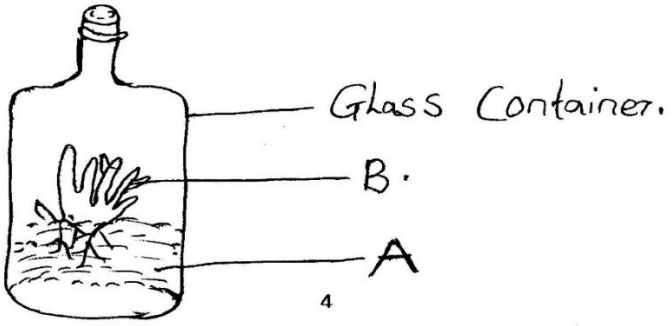
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(c) State the importance of the above method. **(1mk)**

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13. Study the diagram below.



4

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(a) Identify the method of propagation in A above. **(1mk)**

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(b) Name the parts A and B on the diagram. **(2mks)**

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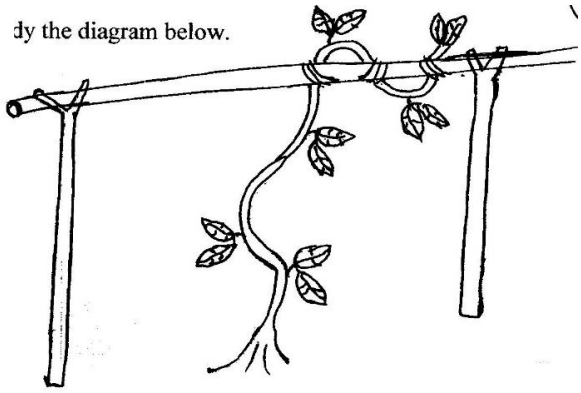
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(c) State the importance of the above method. **(1mk)**

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14. Study the diagram below.



(a) State the method of training used above. **(1mk)**

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(b) State **one** crop that can be propagated using the above method. **(1mk)**

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(c) State **two** importance of the practice above. **(2mks)**

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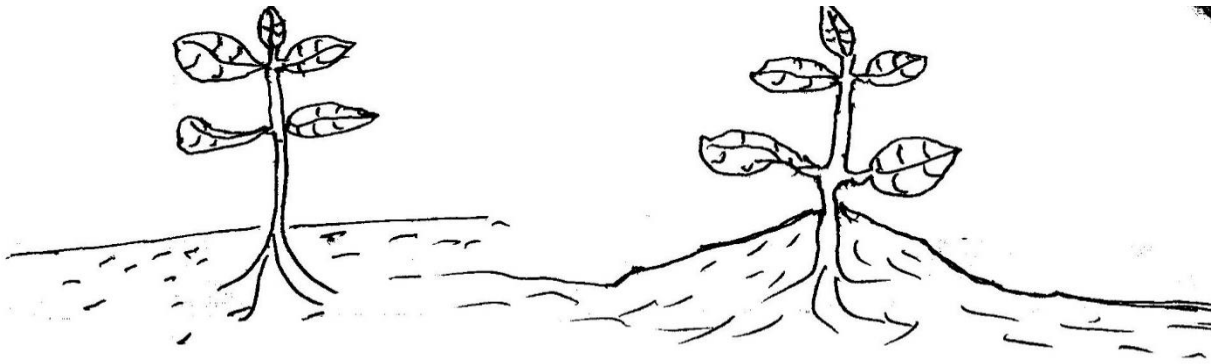
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15. Study the field practice below.



(a) Identify the practice above. **(1mk)**

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(b) Suggest one crop that the practice above is common. **(1mk)**

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(c) State two importance of the practice above. **(2mks)**

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SECTION C (40 MARKS)

Answer only two questions in this section in the spaces provided below.

16. (a) State **five** factors that determine the stage and timing of harvesting. **(5mks)**

(b) Briefly describe the method of harvesting of the following crops. **(8mks)**

(i) coffee

(ii) tea

(iii) Irish potato

(iv) Beans

(d) State and explain seven post - harvest practices. **(7mks)**

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17. (a) Explain **four** methods of preparation of planting material. **(8mks)**

(b) State precautions to be observed when pruning tea. **(7mks)**

(c) State **five** factors that influence crop rotation. **(5mks)**

18. (a) State and explain **seven** nursery management practices. **(7mks)**

(b) Describe the procedure of transplanting of vegetable crop seedlings. **(13mks)**

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EXCELLING STUDENTS FORM TWO
END TERM 2 HYBRID EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

BIOLOGY (QUESTION PAPER)
FORM 2
2 HOURS

INSTRUCTIONS TO CANDIDATES

Answer ALL the question.

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QUESTION	Max Score	Candidate Score
1 – 34	80	

1. State the function of the following organelles

i) Nucleolus **(1mk)**

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ii) Centrioles **(2mks)**

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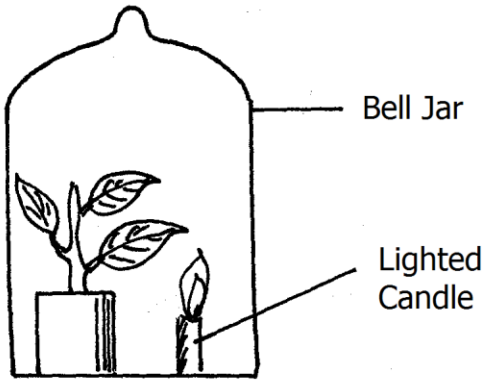
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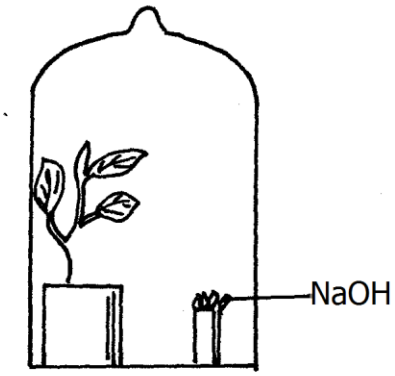
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2. Two potted plants A and B were placed in the dark for two days. Each was then placed in an air tight bell jar as follows then transferred to light for four hours. Each plant was then tested for starch.

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A. **B.**

a) Why were the plants put in a dark place for two days **(1mk)**

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b) What was the result of the starch test in plant B. Explain your answer **(3mks)**

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3. Explain how carboxyhemoglobin leads to death **(2mks)**

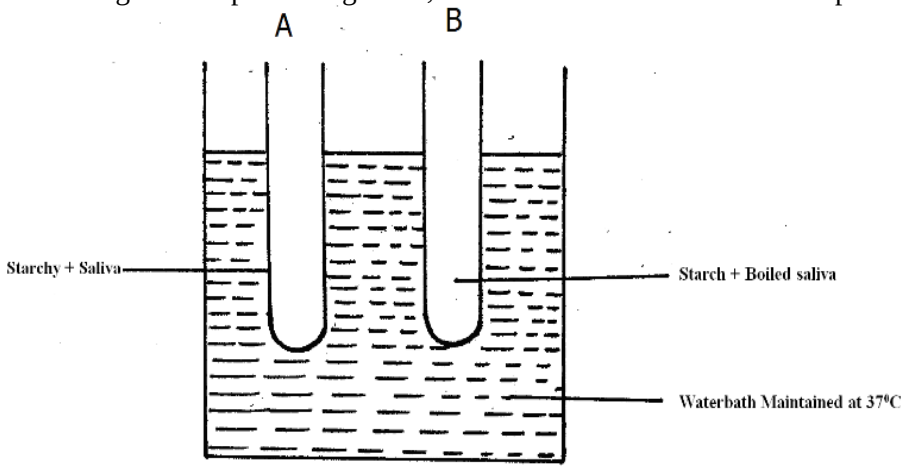
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4. In an experiment to investigate an aspect of digestion; two test tubes A and B were set up as shown in the diagram below.



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After 30 minutes the content of each test tube was tested for starch using iodine solution.

a) What results were expected in test tube A and B **(2mks)**

A: ……..

B; ……..

b) Account for the results you have given in (a) above in test tube A **(2mks)**

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5. Name **two** vaccines given to a baby immediately after birth **(2mks)**

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6. Name the gaseous exchange structures in the following parts of a plant **(3mks)**

i) Stem: **……..**

ii) Root: **……..**

iii) Leaf: **……..**

7. List the changes that take place during inhalation in the breathing cycle of a mammal in the following parts **(3mks)**

i) Ribcage

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ii) Diaphragm

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iii) Intercostal muscles

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8.a) State any **two** structural factors that affect rate of transpiration in plant leaves. **(2mks)**

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b) Give **two** importance of transpirations in plants **(2mks)**

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9.a) Name the building blocks of

i) Protein **(1mk)**

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ii) Lipids **(1mk)**

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10. The diagram below represents an experiment that was set up to investigate a Certain process.

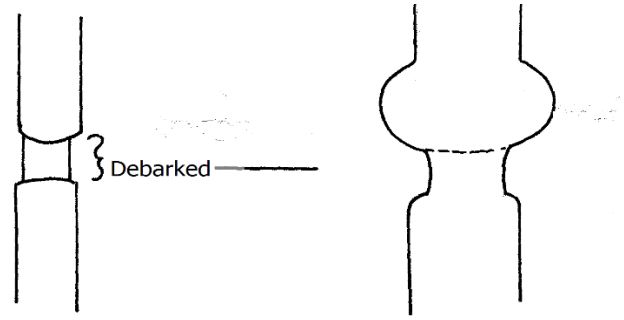


Diagram 1 Diagram 2

a) Name the process that was being investigated **(1mk)**

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b) State two possible conclusions from the result of this experiment **(2mks)**

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11. Explain why the heart beat and rate of breathing increases during vigorous exercise **(2mks)**

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12. Explain the following terms:

a) Taxonomy **(1mk)**

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b) Species **(1mk)**

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13. State the function of the following organelles

a) Lysosomes **(1mk)**

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b) Golgi apparatus **(1mk)**

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14.Name the form in which carbohydrates are stored in

i.Plant tissues **(1mk)**

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ii. Animal tissues **(1mk)**

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15. State the differences in arrangement of vascular bundles and the shape of the cross section in monocot and dicot stems **(2mks)**

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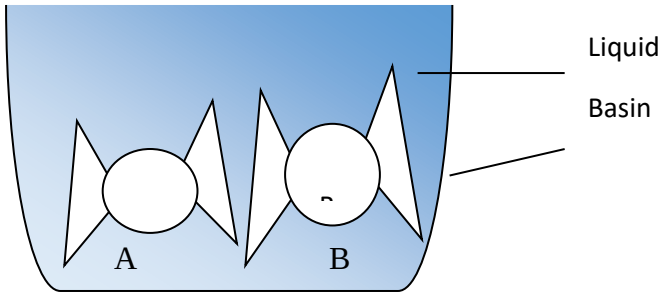
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16. The following experiment was set up to demonstrate a physiological process. Two tubes A and B made of sheep's bladder were filled with different liquids and placed in a basin containing a liquid



After 20 minutes, it was found that tube A felt hard and the liquid in it had increased. Tube B was soft and contained less liquid.

a) Explain what took place in tube A. **(2mks)**

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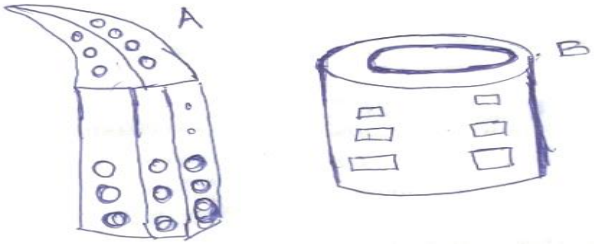
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b) What does the sheep's bladder correspond to? **(1mk)**

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17. The diagram below show two conducting elements of the xylem tissue.



a) Identify each of the A and B **(2mks)**

A: ……

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B: ……

b) State two structural adaptations that make xylem vessels suitable to their functions **(2mks)**

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18. Explain how the following reduce transpiration in xerophytes

i.Sunken stomata

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ii. Thick cuticle

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19. Name three photosynthetic cells in plants **(3mks)**

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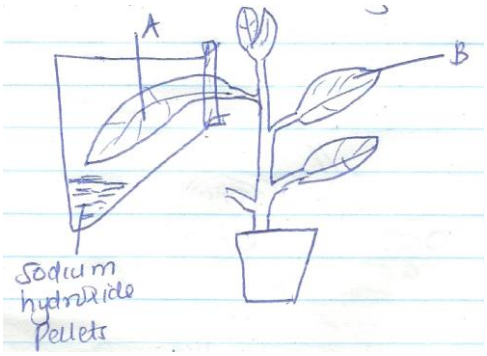
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20. The diagram below represents an experimental set up by students of Excel Secondary School



a) Name the factor being investigated in the above set-up **(1mk)**

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b) Why is it necessary to first keep the set-up in the dark for 48 hours? **(1mk)**

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c) What is the role of sodium hydroxide pellets in the experiment**?** **(1mk)**

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21. When testing for starch in a leaf, explain the reason for doing the following

i.Dipping the leaf in boiling water **(1mk)**

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ii. Boiling the leaf in methylated spirit? **(1mk)**

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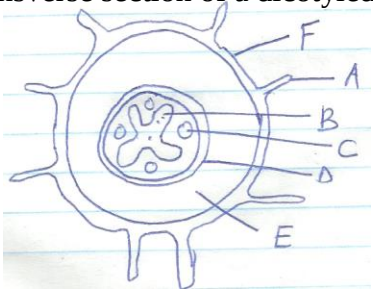
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iii. Boiling the leaf in methylated spirit over a water bath **(1mk)**

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22. The diagram below represents a transverse section of a dicotyledonous root. Study it and answer the questions that follow.



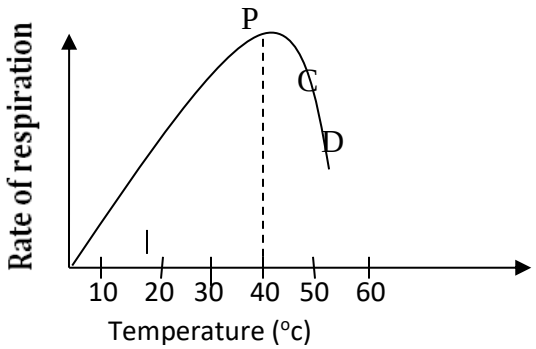
a.Name parts labeled A, B and C **(3mks)**

A: ……

B: ……

C: ……

23. The graph below shows the effects of temperature on the rate of reaction of the enzymes: salivary amylase



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a) Explain the role of enzymes in living cells **(1mk)**

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b) i) Account for the changes in the curve between C and D **(2mks)**

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ii) What does dotted line represent? **(1mk)**

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

Enzyme

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Metal ion

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24. Explain why excessive bleeding may lead to death of patient **(2mks)**

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25. Most of absorption of digested food in mammals takes place in the ileum. State two ways in which it is adapted for this function**?** **(2mks)**

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26. Explain how sex determines energy requirements in human beings **(2mks)**

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27. Distinguish between the following terms; **(2mks)**

i) Open and closed circulatory systems

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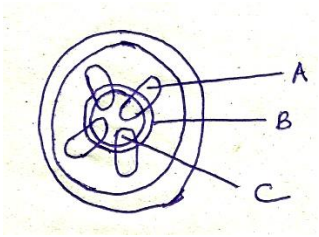
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ii) Single and Double circulation

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28. The diagram below represents a cross section of a plant part.



i. From which part of the plant was the section obtained**?** **(1mk)**

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Give a reason for your answer in above **(1mk)**

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ii. Name the part labeled B **(1mk)**

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29. Name the instrument which is used to determine transpiration rate. **(1mk)**

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30. Name the blood vessel that transports blood from; (2mks)

a) lungs to the heart

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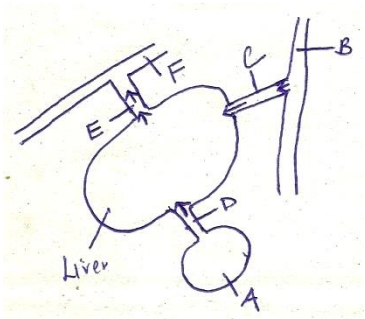
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b) the aorta to the liver

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31. The diagram below illustrates blood circulation in certain organs in humans.



a) Name the part labeled A …….. **(1mk)**

b) Name the blood vessels labeled B and F. **(2mks)**

B: ……

F: ……

c) State how the composition of blood in vessel E differs from that in vessel D. **(1mk)**

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32. Explain the role of bile in the process of digestion **(2mks)**

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33. An organism was found to have the dental formula:

$$i\ \frac{1}{1}\quad C\ \frac{0}{0}\quad P\ \frac{3}{2}\quad M\ \frac{4}{4}$$

i. Calculate the total number of teeth in the organism **(1mk)**

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EXCELLING STUDENTS FORM TWO
END TERM 2 HYBRID EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

BUSINESS STUDIES
565
FORM TWO (2)
Time: 2½ Hours

ANSWER ALL QUESTIONS

1.Indicate the discipline of business studies described by each of the following statements **(4mks)**

	Description	Discipline
A	Study of trade and aids to trade	
B	Systematic recording of business transactions for decision making	
C	Process of identifying business opportunities and acquiring all necessary resources to start and run a business	
D	Study of how human beings strive to satisfy their endless needs using the available scarce resources	

2.Highlight four ways in which COVID – 19 pandemic affected businesses in Kenya **(4mks)**

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3.State four differences between goods and services **(4mks)**

Goods	Services

4.Highlight four characteristics of basic wants **(4mks)**

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5.Give four characteristics of capital as a factor of production **(4mks)**

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6.Identify four characteristics of indirect production **(4mks)**

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7.Give four business considerations to be made when evaluating a business idea **(4mks)**

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8.Give four advantages of the partitioned office layout **(4mks)**

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9.Highlight four limitations of hire purchase to the buyers **(4mks)**

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10. Cheques are a popular means of payment. Give four merits of paying with a cheque **(4mks)**

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11. In the table below indicate the trade document that serves the purpose mentioned. (4mks)

	Purpose	**Trade document**
i)	Issued when payment is made	
ii)	Used to correct an undercharge	
iii)	Requests the seller to supply the buyer with goods	
iv)	Demands payment for goods delivered	

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12. State four features of a supermarket **(4mks)**

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13. Give four services rendered to producers by the wholesalers **(4mks)**

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14. Highlight four circumstances under which a private limited company may be dissolved **(4mks)**

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15. State 4 types of partners in a partnership **(4mks)**

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16. State four circumstances under which a business may opt to use e-mail instead of a telephone **(4mks)**

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17. State four reasons which justify involvement of the government in business **(4mks)**

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18. Give four functions of commercial attaches in promoting trade **(4mks)**

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19. Give four advantages of air transport to a business **(4mks)**

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20. State four essentials of effective transport **(4mks)**

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21. Highlight four roles played by the Nairobi stock exchange in Kenya **(4mks)**

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22. Explain four factors that a business would consider when selecting a means of transport **(8mks)**

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23. Explain four clauses contained in the Memorandum of Association **(8mks)**

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EXCELLING STUDENTS FORM TWO
END TERM 2 HYBRID EXAMS

NAME: ……

SHOOOL: ……

ADM NO: …….. SIGN……..… DATE: ……..

CHEMISTRY (QUESTION PAPER)

FORM 2

2 HOURS

Instructions to Candidate

- *Answer **all** questions in this paper*
- *Answer all questions in the spaces provided*

For Examiner's Use Only

Questions	Maximum Score	Candidate's Score
1 – 26	80	

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1.1) When a white powder of sodium chloride is dissolved in water the process is described as a physical change. When a white powder of copper (II) sulphate is dissolved in water, the process is described as a chemical change. Explain these observations. **(2Mks)**

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2.An **element T** burns in air with a blue flame, forming white fumes which dissolve in water to form a solution that turns blue litmus paper red (**T** is not the actual symbol of an element).

a) Is **element T** a metal or non-metal? Explain **(2Mks)**

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b) Suggest a possible identity of **element T**. **(1Mk)**

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3.Write balanced chemical equations for the following reactions **(4Mks)**

a) Heating copper (II) nitrate to get copper (II) oxide, nitrogen (IV) oxide and oxygen

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b) Sodium hydroxide reacting with dilute sulphuric (VI) acid [H_2SO_4]

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c) Calcium oxide reacting with dilute hydrochloric acid to yield calcium chloride and water

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d) Ammonium hydroxide and dilute sulphuric (VI) acid

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4.Mr. Kinyanjui suspected a colourless liquid in the laboratory to be water. He carried out a simple chemical test that determined the liquid was not water. Describe the experiment he must have carried out, giving the relevant outcomes. **(2Mks)**

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5.The table below shows properties of substances **P**, **Q**, **R** and **S**. Study it and use it to answer the questions that follow.

Substance	Reaction with oxygen	Description of melting point	Electrical Conductivity	
			Solid state	Molten state
P	Unreactive	High	Poor	Good
Q	Unreactive	High	Poor	Poor
R	Unreactive	High	Good	Good
S	Reactive	Low	Good	Good

Select the substance that:

a) Is likely to be potassium chloride …… **(1Mk)**

b) Is likely to be preferred by an electrical technician for use as a power cable in electrical installation **(1Mk)**

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c) Has a simple molecular structure **(1Mk)**

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6.Substance A is highly soluble in propanone while **substance B** has low solubility in propanone. Which substance would travel furthest on a filter paper if a liquid containing both substances is subjected to chromatography? Explain. **(3Mks)**

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7.What is an acid-base indicator? **(1Mk)**

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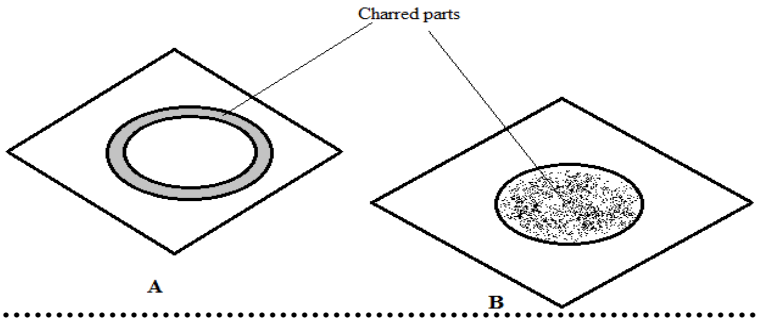
8.An element **Y** has the electron configuration of 2.8.5. Explain the difference in size between the atomic radius of element **Y** and its ionic radius. **(1Mk)**

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9.The two figures below show papers placed at two points of a non-luminous flame. Explain the observations made in **A** and **B**. **(4Mks)**



A

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B

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

V								A
B	F			G	Z	N	E	
W	J		T	L			H	C
D	K							

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a) Write the formulae of the following: **(2Mks)**

i) The chloride of **F** ……..

ii) The oxide of **B** ……

iii) The carbonate of **W** ……

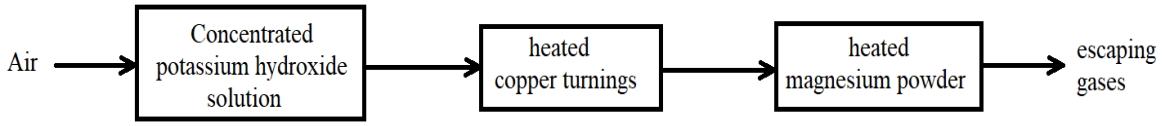
iv) The hydroxide of **T** ……..

b) The formula of the compound formed between: **(1Mk)**

i) **E** and **J** ……

ii) **N** and **W** ……

11. Air was passed through several reagents as shown below



Write a chemical equation for the reaction that takes place in the chamber with:

a) Concentrated potassium hydroxide **(1Mk)**

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b) Heated copper turnings **(1Mk)**

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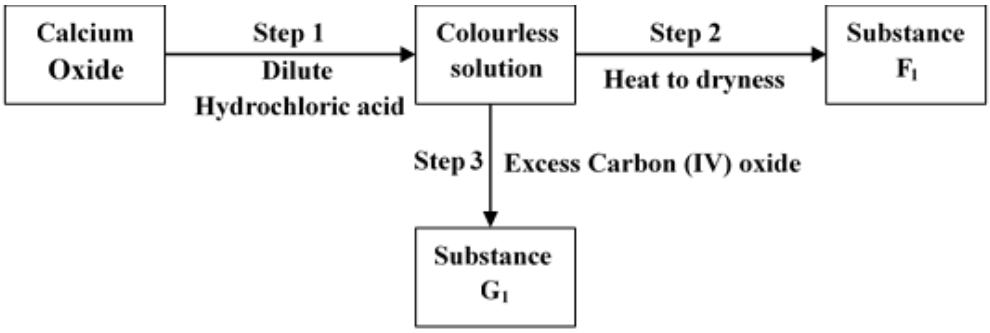
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c) Heated magnesium powder **(1Mk)**

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12. Study the flow chart below and answer questions that follow.



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a) Give the name of the process that takes place in **step 1**. **(1Mk)**

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b) Give:

i) The name of substance $\mathbf{G_1}$ **(1Mk)**

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ii) **One** use of substance $\mathbf{F_1}$ **(1Mk)**

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13. In terms of structure and bonding explain why the melting point of aluminium chloride is much lower than that of sodium chloride **(3Mks)**

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14. The element chlorine has two isotopes, **Chlorine-35,** and **Chlorine-37**. If chlorine has a relative atomic mass of 35.5, calculate the relative abundance of the two isotopes – showing your working clearly. **(3Mks)**

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15. Element **Z** in the second period of the periodic table forms Z^{3+} ions using **(×)** to represent electrons; draw a complete structure of an isotope of "**Z**" having mass number 8. **(2Mks)**

16. Metal **S** removes oxygen combined with metal **P**. Metal **Q** reacts with an oxide of metal **R** but not with and oxide of metal **P**. **P** reacts with cold water, but **Q** does not. Arrange the metals in order of reactivity, starting with the **most reactive** to the least reactive. **(2Mks)**

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17. Hydrogen gas is prepared in the laboratory by the action of a dilute acid on a suitable metal. State why the following are not used to prepare hydrogen in the laboratory:

a) Sodium **(1Mk)**

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b) Copper **(1Mk)**

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c) Nitric (V) acid **(1Mk)**

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18. The atomic numbers of nitrogen, oxygen aluminium and calcium are 7, 8, 13 and 20, respectively. The formulae of their ions are N^{3-}, O^{2-}, Al^{3+} and Ca^{2+}. **(2Mks)**

a) Write the electron arrangement for the ions

N^{3-} ……

O^{2-} ……

Al^{3+} ……..

Ca^{2+} …….

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b) Write equations to show formation of the ions from their respective atoms **(2Mks)**

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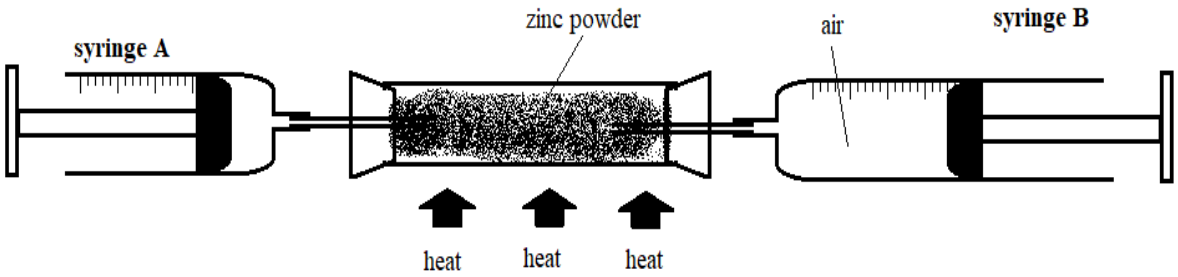
……

c) Arrange the ions in order of increasing ionic radius starting with the smallest. Give a reason for the order. **(2Mks)**

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……1

1**9)** In an experiment, a certain volume of air was passed repeatedly from syringe to syringe over heated excess zinc powder as shown in the diagram below.



a) In a second experiment, using the same apparatus, zinc was replaced with excess magnesium. In which of the two experiments was the change in volume of air greatest? Explain **(2Mks)**

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b) State two sources of error in this experiment **(2Mks)**

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20. Complete the table below to show the colour of the given acid-base indicators in aqueous solutions.

(5Mks)

	Colour of acid-base indicator in:		
Substance	**Vinegar**	**Sugar solution**	**Lime water**
Red litmus paper			
Blue litmus paper			
Phenolphthalein			Pink
Methyl orange	Pink		

21 a) Hydrogen peroxide and manganese (IV) oxide are used together during the laboratory preparation of oxygen. What is the role of manganese (IV) oxide in the experiment? **(1Mk)**

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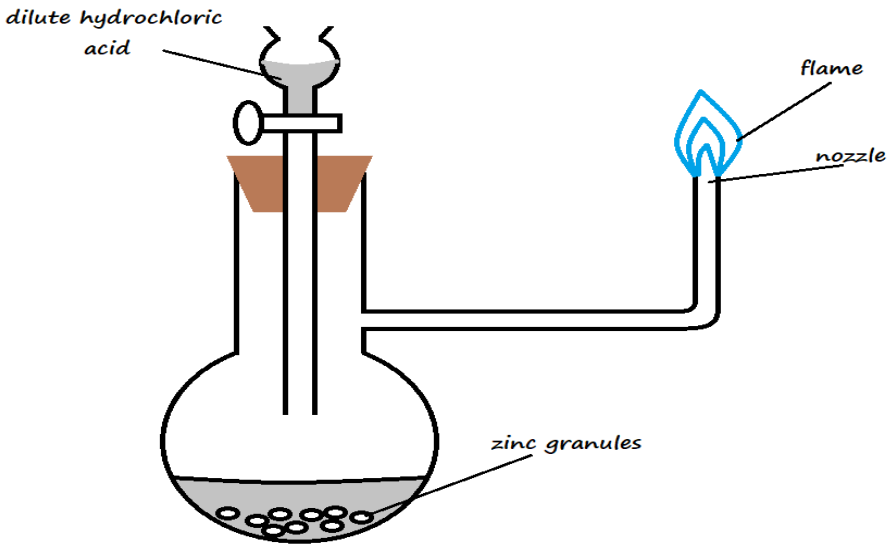
b) How else can the experiment done if the laboratory does not have manganese (IV) oxide, but hydrogen peroxide only, is available? **(1Mk)**

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22. Study the diagram below and answer question that follows.



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a) Write an equation for each of the two reactions that take place in the experiment represented by the diagram above **(2Mks)**

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b) State and explain the observation made at the nozzle when zinc granules were replaced with copper turnings **(2Mks)**

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23. The phosphine molecule (**PH_3**) can combine with a hydrogen ion to form **$[PH_4]^+$**. Explain **(1Mk)**

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24. Use the information in the table below to answer questions that follow. The letters do not represent actual symbols of the elements.

Particle	B	C	D	E	F
Number of protons	18	5	3	5	20
Number of neutrons	22	5	4	6	22
Number of electrons	18	6	2	6	20

a) Which letters represent the same element? Explain. **(2Mks)**

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b) What is the mass number of element **D**? **(1Mk)**

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c) Which letters represent atoms? Explain **(2Mk)**

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d) Which letter represents an element that cannot form ions? Explain. **(1Mk)**

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25. 25) When a magnesium ribbon is heated in air, the product formed is heavier than the original ribbon. On the other hand, when potassium manganate (VII) is heated in air, the product formed is lighter than the original substance. Explain this difference in observation. **(3Mks)**

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26. 26) Diamond and graphite are forms of carbon. Explain the following properties of the substances in terms of structure and bonding:

a) Graphite is used to reduce friction between two moving engine parts **(2Mks)**

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b) Diamond is used to drill through hard rocks **(2Mks)**

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EXCELLING STUDENTS FORM TWO
END TERM 2 HYBRID EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

COMPUTER STUDIES
451
FORM TWO (2)
Time: 2½ Hours

INSTRUCTION TO CANDIDATES

- Write your name and admission number in the spaces provided above.
- This paper consists of **Two** sections **A** and **B.**
- Answer **ALL** questions in section **A.**
- Answer question 16 and any three in section B.
- All answers should be written in the spaces provided on the question paper.

FOR EXAMINER'S USE ONLY

SECTION	QUSTIONS	CANDIDATE'S SCORE
A	1 -15	
	16	
	17	
	18	
	19	
	20	
	TOTAL SCORE	

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SECTION A (40MARKS)
ANSWER ALL THE QUESTION IN THIS SECTION

1.State three differences between impact printers and Non-Impact printer **(3mks)**

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2.The table below was created using MS-Word use it to answer the questions that follow:

Product Name	Quantity	Unit Cost	Total
Maize	80	10	800
Millet	60	20	1200
Grand Total			**2000**

(i) Identify the formula used to get:

Total **(1mk)**

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Grand Total **(1mk)**

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3. ICT can be extremely useful in the management of farms. State any two ways in which ICT can be used in a horticultural farm**.** **(4mks)**

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4.Mention two types of cables that can used to connect a projector to a computer **(2mks)**

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5.Describe the term portability as used in the following context:

(i) Hardware **(1mk)**

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(ii) Software **(1mk)**

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6.Describe two functions of the control panel **(2mks)**

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7. Mention four sources of graphics used in MS-Word **(2mks)**

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8.Describe two ways of discharging any static electricity that might have built up on the hands during basic computer cabling and setting up (**2mks)**

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9.Describe three features provided by spreadsheet which make it suitable for financial applications **(3mks)**

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10. State the functions of the following keys:

(i) Return key **(1mk)**

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(ii) Delete **(1mk)**

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11. Mention the SI units for measuring:

(a) Processor speed **(1mk)**

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(b) Monitor size **(1mk)**

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(c) Memory capacity **(1mk)**

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12. State three factors that are used to measure the performance of a monitor **(3mks)**

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13. Maranda Special School received grants from the National government to purchase computers to be used in the departments and the Head teachers' office, as a computer student the head teacher approached you to guide him on the hardware and software considerations in order to execute the project. Describe four hardware related factors that you need to consider for the project to be implemented successful **(4mks)**

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14. Kipsmart was given a passage of three pages to type in Microsoft word. The teacher requested him to look for the word "whenever" within the passage. Describe three search option that Kipsmart must use to locate the word **(4mks)**

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15. Describe the effects of the following actions in a computer laboratory.

(a) Drinking sodas and Tea **(1mk)**

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(b) Using a powdered fire extinguisher **(1mk)**

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(c) Cleaning the computer with a soft cloth soaked in water **(1mk)**

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SECTION B (60 MARKS)

ANSWER QUESTION 16 AND ANY OTHER THREE QUESTIONS FROM THIS SECTION

16. (i) Describe three components of a spreadsheet **(3mks)**

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(ii) Describe three components of a function **(3mks)**

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(ii)A School keeps a spreadsheet of examination results in four subjects. Part of the spreadsheet is shown below:

	A	B	C	D	E	F	G	H	I
1	Name	Class	Math	Science	IT	English	Average	Position	Remark
2	Peruza	11C	87	72	64	61	71	1	
3	Kegg	11A	82	69	57	52	65	2	
4	Kolacz	11A	73	51	73	51	62	3	
5	Khan	11C	44	21	50	85	50	4	
6	Dyos	11B	41	54	70	31	49	5	
7	Lenski	11B	17	41	40	34	33	6	
8	Allen	11A	33	24	19	44	30	7	
9	Mean score	-	53.86	47.43	53.29	51.14	51.43		
10	Highest	87	Lowest	17			######		

Table 1

(a) What formula has been used to?

(i) Calculate the mean score for Math **(1mk)**

(ii) Assign Lenski position 6 out of 7 **(1mk)**

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(iii) Get student with the highest marks in Math and Science **(1mk)**

(iv) Get student with the Lowest mark in Math, Science and IT **(1mk)**

(b) State the problem in cell G10 and describe how it can be solved **(2mks)**

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(c) Show how cell G10 can be represented in R1C1 style **(1mk)**

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(d) If a function = average (G2: G8 is typed in cell G10 then copied to I12.State how the function will appear in I12 **(2mks)**

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17.

(a) List two items found in MS-word formatting toolbar **(2mks)**

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(b) With an aid of a diagram explain the difference between merging cells and splitting cells **(2mks)**

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(c) Mark Jacob typed **MARANDA High School** in a MS-Word workspace. State how the line of text will appear if he applies the following change case option.

(i) Toggle case **(1mk)**

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(ii) Sentence case **(1mk)**

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(iii) Title case **(1mk)**

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(d) Use illustration to describe four types of alignment **(4mks)**

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(e) James was preparing a document which contains lines of text and graphic. When he typed the last sentence, the whole sentence was pushed to the next page making the document to have two pages. Mention fours ways that can be applied to this document to make it fits with a page **(4mks)**

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18.

(a) Describe three characteristics of secondary storage devices **(3mks)**

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(b) List three examples of softcopy output devices **(3mks)**

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(c) Describe four limitations of Cathode Ray Tube Monitors **(3mks)**

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(d) A well-lit lab is important to avoid eye strain that can cause headache, fatigue and stress. State three safety precautions that be observed to prevent eye-related issues **(3mks)**

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(e) Explain three types of Compact Disks **(3mks)**

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19.

(a) Describe four functions of an operating system **(4mks)**

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(b) Explain the following types of operating system **(2mks)**

(i) Multitasking Operating system

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(ii) Multiuser Operating system

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(c) Give three advantages of a command line interface operating system **(3mks)**

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(d) James bough a Desktop computer with one hard disk which has two partition and a DVD drive, the computer also has a provision for USB and Memory card. James inserts a memory card into his machine to transfer data. State how the operating system will label the hard disk and memory card attached to this computer **(2mks)**

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(f) A student intends to buy a new operating system for his computer. He was advised to consider the following factors use friendliness, compatibility, hardware configuration and type of the computer when purchasing it. Explain the factors listed above **(4mks)**

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20.

(a) Wallot was requested by the teacher to print a word document after the lesson. He switched the print on and then clicked the print command. The printer did not print Wallot document. Suggest four possible causes of this problem **(4mks)**

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(b) List three techniques of transforming an image in word processor **(3mks)**

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(c) Outline three application areas of Voice input devices **(3mks)**

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(d) Explain the term plug and play as used in computing **(2mks)**

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(e) Explain the functions of the components of the taskbar **(3marks)**

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EXCELLING STUDENTS FORM TWO
END TERM 2 HYBRID EXAMS

NAME: ……

SHOOOL: ……..

ADM NO: ……. SIGN……..… DATE: …….

FORM TWO CHRISTIAN RELIGIOUS EDUCATION
TIME: 2 Hours

INSTRUCTIONS TO CANDIDATES:

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

(ii) This paper consists of **SIX** questions.

(iii) Answer all the SIX questions on the foolscaps provided.

For Examiner's Use Only

Questions	1	2	3	4	5	6	TOTAL
Score							

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CRE FORM TWO QUESTION PAPER

1a) State the Biblical causes of sin. **(5 marks)**

b) State the responsibilities given to human beings in Genesis Chapter 1 and 2 (**5 marks)**

c) What are teachings of the Genesis stories of creation? (**5 marks**)

(5mks)

2a) State the role of Judges in Israel.

b) Outline the promises given to King David. **(6mks)**

c) What life skills do Christians need to use in order to fight corruption in Kenya today? **(5mks)**

3a) Give the responsibilities of the living to the ancestors in the African traditional communities.

b) Explain the reasons why traditional African communities offer sacrifices. (**6 marks**)

(6 marks)

c) Identify moral values taught to the youths during initiation to adulthood in traditional African communities. **(6 marks)**

4. a) Outline Jeremiah's prophecy about the messiah (Jeremiah 23:5-6)

(5 marks)

b) State Events that took place when John the Baptist was born

(5 marks)

c) Explain **seven** lesson Christian can learn from the dedication of Jesus in Luke 2:22-40 **(5marks)**

5.a) Explain ways in which Jesus fulfilled the Old Testament prophesies about the Messiah **(6 marks)**

b) Discuss the reasons why Jesus faced oppositions from the Jewish religious leaders**(6 marks)**

c) State **five** ways in which Christians spread the gospel of Christ. **(5 marks)**

6 a) Give reasons why Jesus chose the 12 disciples. **(6 marks)**

b) Narrate the incident of the healing of the woman with flow of blood. **(8marks)**

c) Give five lessons that a Christian can learn about the nature of Jesus from the Incident when he cast out a demon from the man in a synagogue at Capernaum. (**5Marks)**

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EXCELLING STUDENTS FORM TWO
END TERM 2 HYBRID EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: …….

TERM 2
English (Hybrid test)
Form Two
Time: 2 ½ hours

INSTRUCTIONS TO CANDIDATES

- The exam has ***seven*** sections.
- All the sections are ***compulsory.***
- Write your answers in space provided.
- The exam carries ***100 marks.***

FOR EXAMINER'S USE ONLY

S/NO	SECTION	MAXIMUM MARKS	STUDENTS SCORE
1	Functional Writing	20	
2	Cloze Test	10	
3	Comprehension	20	
4	Oral Literature	10	
5	Poetry	10	
6	Oral Skills	10	
7	Grammar	20	
Grand Total		100 marks	

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Q1. FUNCTIONAL WRITING – 20MKS

Imagine you went out on a tour at impala park in Kisumu, you later sneaked out of the tour venue and returned when the bus was about to leave for school. The teacher in charge was never pleased with your behaviour and told you to write a letter of Apology.

Write a letter of apology expressing your remorse on your behaviour.

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Q2. CLOZE TEXT – 10MKS

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

Oral literature **.....(1)** one way of maintaining cultural **.....(2)** and educating any given society. **.....(3)** the various genres and sub-genres, our **.....(4)** character traits are reflected. The virtues and **.....(5)** are all brought to the surface as **.....(6)** means of self-reflection. This is because everyone in Africa is a **.....(7)** of the society. It is, **.....(8)** important for the adults to **.....(9)** the correct values to the **.....(10)** through this mode of communication.

Q3. COMPREHENSION – 20MKS

Read the passage carefully and then answer the questions that follow.

A Choice Chunk of Meat- Tekayo

The period of short rains was just starting in a semi-arid part of the Sudan. The early morning mist had cleared, and faint blue smoke rose from the ground as the hot sun touched the surface of the wet earth.

"People in the underworld are cooking. People in the underworld are cooking!" the children shouted as they pelted each other with wet earth.

"Come on, Opija," Tekayo shouted to his son. "Give me hand, I must get the cows to the river before it is too hot."

Opija hit his younger brother with his last handful of sand, and then ran to help his father. The cows were soon out of the village and Tekayo picked up the leather pouch containing his lunch and followed them.

They had not gone far from home when Tekayo saw an eagle flying above his head with a large piece of meat in its claws. The eagle was flying low searching for a suitable place to have its meal. Tekayo *promptly* threw his stick at the bird. He hit the meat and it dropped to the ground. It was a large piece of liver and fresh blood was still *oozing* from it. Tekayo nearly threw the meat away, but he changed his mind. What was the use of robbing the eagle off its food only to throw it away? The meat looked good: it would supplement vegetable lunch wonderfully. He wrapped the meat in a leaf and pushed it into his pouch.

They reached a place where there was a lot of grass. Tekayo allowed the cows to graze while he sat under an *ober* tree watching the sky. It was not yet lunch time, but Tekayo could not wait. The desire to taste that meat was burning under the *ober* tree. When the meat was cooked, he ate it greedily with millet bread which his wife had made the previous night.

"My! What delicious meat," Tekayo exclaimed. He licked the fat juice that stained his fingers and *longed* for a little more. He threw away the bitter herbs that were the rest of his lunch. The meat was so good, and the herbs would merely spoil its taste.

The sun was getting hot, but the cows showed no desire to go to the river to drink. One by one they lay down in the shade, chewing the cud. Tekayo also became overpowered by the afternoon heat. He rested against the trunk and slept.

While asleep, Tekayo had a dream. He was sitting before a log fire roasting a large piece of liver like the one, he had eaten earlier. His mouth watered as he watched rich fat from the roasting meat dropping into the

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fire. He could not wait, and although the meat was not completely done, he removed it from the fire and cut it with his hunting knife. But just as he was about to take the first bite, he woke up.

Tekayo looked around him wondering what had happened to the meat! "It was too *vivid* to be a dream!" He sat upright and had another look around, as if by some miracle he might see a piece of liver roasting on the log fire beside him. But there was nothing. All he saw were large roots of the old tree *protruding* above the earth's surface like sweet potatoes in the sandy soil. The cattle had wandered a long way off. Tekayo got up and followed them. They reached the riverbank, and thirsty cows ran to the river. While the cows drank, Tekayo sat on a white stone cooling his feet and gazing lazily at the swollen river as it flowed mightily towards the plain.

Beyond the river stood the great "Ghost Jungle". A strong desire for the rich meat came back to Tekayo, and he whispered, "The animal with that delicious meat must surely be in that jungle."

From Tekayo, Land without Thunder by Grace Ogot

Questions.

i. How do children explain the steaming ground? **(2mks)**

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ii. How did Tekayo acquire the piece of meat? **(3mks)**

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iii. Identify rhetorical questions. **(2mks)**

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iv. Why did Tekayo throw away his packed lunch? **(2mks)**

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v.Quote *two* sentences or phrases that are descriptive**.** **(2mks)**

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vi. Make notes to prove that the meat has a strange effect on Tekayo. Cite evidence from the text. **(5mks)**

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vii. Using evidence from the passage, suggest what Tekayo will do next. **(4mks)**

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Q4. ORAL LITERATURE – 10MKS

Read the narrative below and answer the questions that follow.

HARE AND HORNED ANIMALS

A long time ago all animals lived together in peace and harmony. All of them, without any exception, worked together for their common good. All of them, that is, expect for Hare who was lazy and liked to sit back and enjoy life while the other animals were breaking their backs working on a communal project.

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What annoyed the animals was that when time came to share the produce or enjoy a party, Hare would be first on the line. Hare had such a sweet tongue that he would always succeed in *flattering* and persuading the other animals to give him the best part of what they had worked for. No animals could find it in him to criticize Hare.

However, after many years of *reaping where he had not sowed*, Hare became arrogant and started thinking that he was like a king and that it was his right to be served by the other animals.

"Bring me green maize to roast," he told antelope one day as Antelope and Buffalo prepared to go to work on the farm. "And don't forget the arrowroots," he added with a lot of disdain. "Make sure they are not rotten."

Antelope had had enough. With his friend Buffalo, he discussed the problem Hare posed. The two agreed that they had to do something about it. They consulted Rhino, Warthog and Elephant. The animals *resolved* to convene a meeting of all animals to discuss the matter further. However, since they did not want Hare to attend, they declared that only horned animals were invited. Antelope was asked to give the other animals the notice for the meeting.

"Why is the meeting only for horned animals?" Hare indignantly demanded.

"Because we have learned that Lion and Leopard are planning to eat us all," Antelope replied. "Since it is only the horned animals who can fight back, we have decided to hold a closed-door meeting to strategize."

Hare did not believe this explanation. *Intuitively*, he knew that the animals were planning to discuss him. He knew that the only way to forestall this was to attend the meeting. But what to do? Alas! He had no horns! After a long and sleepless night in which Hare tossed and turned in bed *racking his brains* on what to do, he came up with a brilliant plan.

Early the following day, before the third cock crow, before Buffalo had suckled her calf, Hare was in the forest looking for a suitable piece of wood to carve himself some horns. He spent the entire day locked up in his room, carving, polishing, and oiling the wooden horns until they shone like the moon.

On the day of the meeting, Hare went down to the river and used mud to stick the 'horns' onto his head. With a lot of pride, he sauntered to the venue for the meeting.

The other animals were flabbergasted to see Hare swaggering down to the meeting place, a pair of splendid horns stuck to his head. To speak truth, hare's horns were the most resplendent they had ever seen. They were confused. What could they do? They could not ask Hare to leave because he had horns!

Antelope came up with a solution. They would delay the commencement of the meeting for as long they could. So as a preliminary to the meeting, Antelope called several animals to entertain the rest. Buffalo presented a dance. Cow narrated a story. Warthog sang. Rhino and Elephant recited a poem. All this while, the sun was steadily making its way up the sky and getting hotter and hotter. Before long the mud on Hare's head dried up and began to crack.

"Please speed up the proceedings," Hare pleaded in desperation. "I have another meeting to attend."

"Relax," Antelope responded. "We have all the time in the world. Furthermore, the animals think best after they have been warmed up by this beautiful sunshine."

Inevitably, the mud finally crumbled, and Hare's horns collapsed. He walked away in shame knowing full well that Antelope had outwitted him.

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Questions.

i. What type of narrative is this? **(1mk)**

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ii. What would you take to be the biggest mistake that Hare did? **(2mks)**

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iii. Prove that the Hare is imaginative and creative**.** **(2mks)**

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iv. How did the animals plan to keep Hare away from the meeting? **(1mk)**

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v.How did Antelope outwit Hare? **(2mks)**

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vi. Summarize the moral lesson of this narrative using a proverb. **(2mks)**

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Q5. POETRY - 10MKS

Read the poem below and then answer the questions that follow.

PRAYER OF AN AFRICAN WOMAN

I am a woman,
created in the image of God,
with dignity and virtues,
formed by the very hands of God,
given life by God's breath.

I am a woman,
mother of presidents and of workers,
mother of housemaids and ministers,
mother of kings and subordinates,

I am a woman,
farmer, cook, housewife and neighbor.
I work from morning till late at night,
sow and reap under a burning sun,
go off with heavy burdens,
and return home to feed my family.
I am a woman,
the heart of the family.
I am loved, and yet oppressed,
held in esteem, and still considered inferior,
caressed and yet beaten,
indispensable, and still overlooked.

I am a woman.
Lord, you created me and you know me.
you know me by my name,
you listen to me when the world
refuses to understand me.
you know all my worries,
you see my tears and hear my sighs.
You are everything to me.
With you, Lord, there is hope.
In you I want always to put my trust:
as a woman.

Grace Eneme

Questions.

i. With example, identify the persona in the poem. **(2mks)**

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ii. Explain the theme in the poem**.** **(3mks)**

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iii. With illustrations, list down styles that have created rhythm in the poem. **(3mks)**

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iv. State and describe the rhyme scheme of the first two stanzas in the poem. **(2mks)**

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Q6. ORAL SKILLS – 10MKS

a.Provide an equivalent Homophone to each of the words given. **(5mks)**

(i) Caught **.....**

(ii) Foul **.....**

(iii) Filled **.....**

(iv) Eye **.....**

(v) Bore **.....**

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b.Underline the silent letter in the given words below. **(5mks)**

(i) Interesting

(ii) Often

(iii) Debt

(iv) Sachet

(v) Button

Q7. GRAMMAR – 20MKS

c) Fill in each blank space with a correct preposition. **(3mks)**

a.The athletes complained because they were forced to run **.....**wind.

b. I will speak to you **.....** phone.

c.Someone is knocking **.....** door.

d) ***Complete the following sentences by using the correct form of the word.*** **(3mks)**

a."I will give the **.....** time of your life" She vowed. (good)

b. He was elected Chief Justice because he is the **.....** Judge on the bench. (corrupt)

c.Civil war has never appeared **.....** than it did in 2008. (imminent)

e) ***Complete the given sentences with correct alternative pronoun given.*** **(3mks)**

a.Their car is not similar to .....(ours/our/our's)

b. .....dear friend, that is not the way to do it. (mine/my)

c.Grace took my hand in .....(hers/his)

f)Give the plural forms of the given nouns. (3mks)

(i) Roof .....

(ii) Studio .....

(iii) Stadium .....

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g) Complete the given sentences with a Reflexive Pronoun. ***(3mks)***

d) She seems to be very proud of .....

e) I wrote that poem .....

f) Will the TV switch ..... off?

h) Rewrite the given sentences as instructed after each. ***(3mks)***

a. Peter worked hard to pass the exam. (Rewrite in interrogative form.)

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b. What a lovely compound you have! (State the type of sentence.)

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c. Why is the classroom dirty the teacher asked (punctuate the sentence.)

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i) ***Use given conjunctions below appropriately to write the sentences correctly.***
(2mks)- Conjunctions – (unless, where, before, since, after)

a. Sarah wanted to know. They had kept it.

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b. I have not seen Korir. We moved from Voi.

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EXCELLING STUDENTS FORM TWO
END TERM 2 HYBRID EXAMS

NAME: ……..

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: …….

FORM TWO GEOGRAPHY
TIME: 2¾ Hours

Instructions to candidates

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

(b) This paper has two sections: **A** and **B**.

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

(d) All the answers must be written in the spaces provided below each question.

(e) This paper consists of **9** printed pages.

For Examiner's Use Only

Section	Questions	Maximum Score	Candidate's Score
A	1 – 5	25	
	6	25	
	7	25	
	8	25	
Total Score		100	

SECTION A

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

1.(a) Name **two** main branches of Geography. **(2mks)**

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(b) Give **three** reasons why it is important to study Geography. **(3mks)**

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2. (a) What is a natural satellite? **(2mks)**

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(b) State **three** effects of the rotation of the earth. **(3mks)**

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3.State **four** characteristics of minerals. **(4mks)**

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4. (a) What is an isobar? **(2mks)**

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(b) Give **four** reasons why weather forecasting is important. **(4mks)**

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5. (a) Give **two** features of intrusive vulcanicity. **(2mks)**

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(b) State **three** causes of vulcanicity. **(3mks)**

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SECTION B

*Answer **all** questions from this section.*

6. The table below shows mineral production in tonnes in Kenya from the year 2000 – 2003. Use it to answer the questions that follow.

Mineral/Year	2000	2001	2002	2003
Soda ash	150,000	250,600	440,600	240,000
Fluorspar	50,000	68,700	50,800	93,600
Limestone	25,000	32,600	32,000	32,000
Salt	7,000	15,000	9,800	44,000
Others	8,000	10,900	21,000	10,600

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(a) (i) Calculate the percentage change in the production of soda ash between 2002 and 2003. **(2mks)**

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(ii) Draw a divided rectangle 12 cm long to represent mineral production in 2000. **(8mks)**

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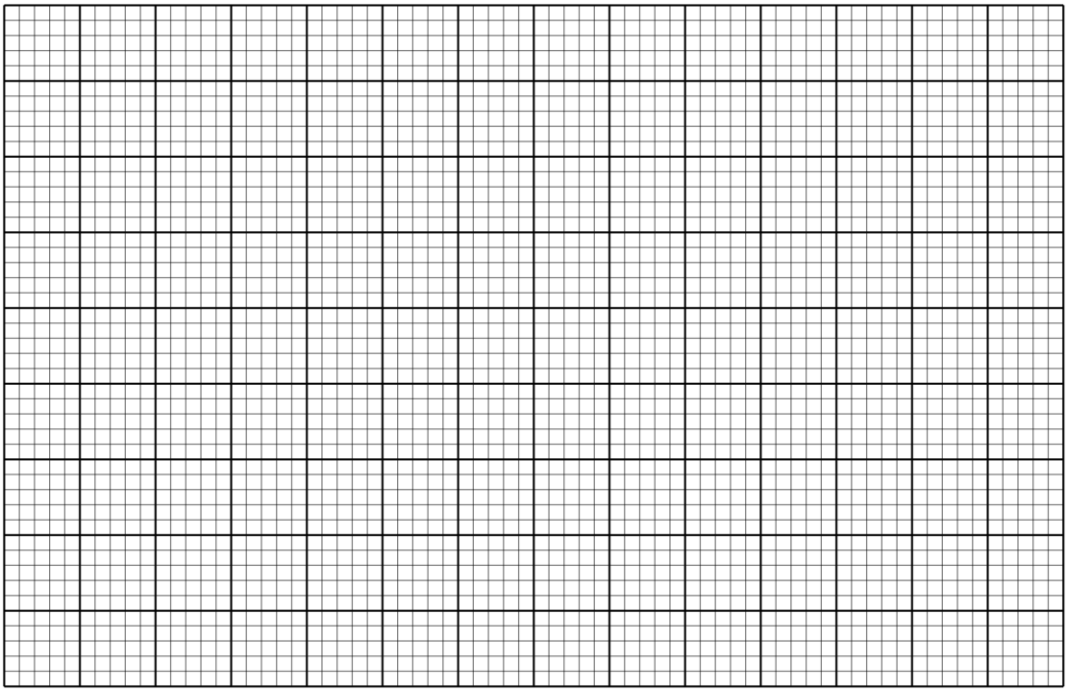
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(b) Describe the extraction and processing of trona at Lake Magadi. **(7mks)**

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(c) Explain the economic significance of gold mining in the Republic of South Africa. **(8mks)**

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7. (a) (i) Define faulting. **(2mks)**

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(ii) State **three** causes of faulting. **(3mks)**

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(b) (i) Apart from the rift valley, give **three** other features that are formed from faulting process. **(3mks)**

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(ii) Using well labeled diagrams, describe how a rift valley is formed through compressional forces. **(8mks)**

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(iii) State **three** characteristics of the Gregory rift valley. **(3mks)**

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(c) Explain **three** effects of faulting on drainage. **(6mks)**

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8. (a) (i) Apart from fog, give **two** other forms of precipitation. **(2mks)**

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(ii) State **three** conditions necessary for the formation of fog. **(3mks)**

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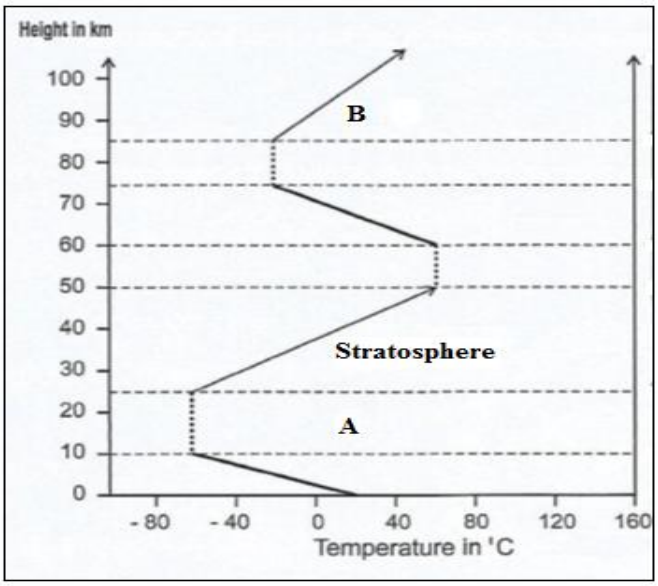
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(b) The diagram below shows the structure of the atmosphere.



(i) Identify the parts marked **A** and **B**. **(2mks)**

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(ii) State **three** characteristics of the stratosphere. **(3mks)**

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(c) Using well labeled diagrams, describe how rainfall is collected and measured in a weather station. **(6mks)**

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(a) (i) Give **three** reasons why the recording of data at a school weather station may be inaccurate. **(3mks)**

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(ii) Explain **three** problems associated with convectional rainfall in the Lake Region of Kenya. **(6mks)**

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EXCELLING STUDENTS FORM TWO
END TERM 2 HYBRID EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

HISTORY AND GOVERNMENT

TIME: 2 ½ HOURS

History and Government

Time: 2 ½ Hours

INSTRUCTIONS TO THE CANDIDATES:

- *This paper consists of **three** sections **A, B** and **C.***
- *Answer **all** questions in section **A, three** questions from section **B** , and **two** questions from section **C***
- *Answers to **all questions** must be written in a separate booklet provided.*
- ***This paper consists of 3 printed pages.***
- ***Candidates should check to ascertain that all pages are indicated and that no questions are missing.***

FOR EXAMINERS USE ONLY

Sections	A	B				C			Total Score
Questions	1 – 17	18	19	20	21	22	23	24	
Marks									

SECTION **A** (25 MARKS)

Answer **all** questions in this section

1.Name the arm of government of Kenya that interprets law. **(1mk)**

2.Give **two** scientific sources of History of Kenyan communities during the pre-colonial period**. (2mks)**

3.Identity the ethnic community that the Maasai assimilated. **(1mk)**

4.State the importance of Shungwaya to the history of Eastern Bantu of Kenya**.** **(1mk)**

5.State **two** factors that made it possible for the Arab traders to come to the Kenyan Coast. **(2mks)**

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6.Identify the town that was established by missionaries in Kenya as a centre for freed slaves during the 19th century. **(1mk)**

7.Give **one** economic factor that promotes national unity in Kenya. **(1mks)**

8.State **one** limitation of using electronics as a source of information of History and Government. **(1mk)**

9.Identify **two** classes of monarchial government. **(2mks)**

10. Identify **two** ways in which early man used tools. **(2mks)**

11. Identify **two** uses of copper in Africa during the 19th century. **(2mks)**

12. State **one** type of trade. **(1mk)**

13. State **two** ways in which slaves were acquired during the Trans-Atlantic trade. **(2mks)**

14. Give **two** negative impacts of internet today**.** **(2mks)**

15. Give **two** early sources of energy. **(2mks)**

16. Define the term Citizenship. **(1mk)**

17. Mention **<u>one</u>** National Holiday celebrated in Kenya. **(1mk)**

<u>SECTION B: (45 MARKS)</u>

Answer any **THREE** questions in this Section

18(a) Give **five** reasons why hunting and gathering was a group activity during the stone age period **(5mks)**

(b). Describe **five** ways in which the development of upright posture improved the early man's way of life. **(10mks)**

19 (a) Give **<u>five</u>** reasons that led to the migration of the Cushites from their original homeland into Kenya during the pre-colonial period**.** **(5mks)**

(b) Explain **<u>five</u>** results of the interactions between the Bantu and the Cushites in Kenya during the pre-colonial period. **(10mks)**

20(a) Give **<u>three</u>** factors that contributed to the development of trade between the Kenyan Coast and the outside world. **(3mks)**

(b) Explain **<u>six</u>** impacts of the presence of Arab traders along the East Coast of Africa. **(12mks)**

21.(a) State **<u>three</u>** uses of gold in ancient Egypt. **(3mks)**

(b) Explain **<u>six</u>** factors which have contributed to industrial supremacy in U.S.A **(12mks)**

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SECTION C (30 MARKS)

Answer any **TWO** questions from this section

22. a) Give **three** reasons why National unity is important **(3mks)**

b) Explain **six** factors that may lead to revocation of Kenyan citizenship **(12mks)**

23 (a) State **five** reasons why early people domesticated crops and animals. **(5mks)**

(b) Explain **five** possible solutions to food shortages in Africa today. **(10mks)**

24 a) Identify **three** social functions of the ancient city of Athens in Greece**.** **(3mks)**

(b) Explain six ways in which industrial and agrarian development contributed to urbanization. **(12mks)**

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EXCELLING STUDENTS FORM TWO
END TERM 2 HYBRID EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

HOME SCIENCE (441|1)
Paper 1

(THEORY)

FORM TWO (2)
Time: 2 Hours

Instructions to candidates

1.This paper consists of three sections. A, B and C
2.Answer all questions in section A. Section B is compulsory. Answer the two questions in section C.
3.Answers to questions must be written in the space provided.
4.All answers must be written in English.

For Examiner's Use Only

Section	Question	Maximum Score	Candidate's Score
A	**1-21**	**40**	
B	**22**	**20**	
		20	
		20	
Total Score		**100**	

SECTION A (40 Marks)

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

1.Name **two** textile fibres of animal origin. **(1mk)**

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2.Mention **two** advantages of buying a scrubbing brush with nylon bristles. **(2mks)**

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3.Mention **two** causes of cracks on the feet. **(2mks)**

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4.List down **two** functions of vitamin A in the body. **(2mks)**

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5.State **two** reasons why silk fabric is expensive. **(2mks)**

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6.Give **three** reasons why needles break during machining. **(3mks)**

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7.Suggest **two** reasons for steeping clothes in laundry work. **(2mks)**

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8.Identify **four** types of repairs done on clothes. **(2mks)**

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9.Outline **three** ways used to manage an elderly person who is hypertensive. **(3mks)**

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10. Name **four** areas in a garment where diagonal tacking can be used. **(2mks)**

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11. Mention **three** advantages of a traditional house design. **(3mks)**

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12. Give **three** reasons for rinsing clothes thoroughly before drying. **(3mks)**

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13. Suggest **two** pieces of information a consumer should obtain from a seller before buying a sewing machine. **(2mks)**

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14. State **three** disadvantages of open drainage. **(3mks)**

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15. List down **four** signs and symptoms observed in a person suffering from cholera. **(2mks)**

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16. Mention **two** steps to take in order to ensure an open seam lies flat at the curves. **(2mks)**

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17. Give **two** reasons for covering food during cooking. **(2mks)**

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18. Mention **two** ways of utilizing potato peelings. **(2mks)**

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SECTION B (20 Marks)

COMPULSORY

Answer question 19 in the spaces provided.

19. You have been invited to your cousin's wedding party. Describe the procedure you would follow to;

a) Launder your silk blouse you intend to wear. **(10mks)**

b) Launder an acrylic sweater for your brother. **(10mks)**

SECTION C (40 Marks)

Answer any TWO questions from this section in the spaces provided.

20. **a)** Mention four points to consider when selecting pegs for use during laundry work. **(4mks)**

b) Identify three points to bear in mind when buying land for a family house. **(3mks)**

c) State three precautions to take when dry cleaning clothes at home. **(3mks)**

d) Why is food fortification done? **(3mks)**

e) Explain three reasons why impulse buying should be discouraged. **(3mks)**

f) Give four uses of carbohydrates in the body. **(4mks)**

21. a) Mention three reasons for ironing pyjamas. **(3mks)**

b) Suggest four problems associated with renting a house in a major urban centre. **(4mks)**

c) Give four desirable qualities of a kitchen floor. **(4mks)**

d) Mention four limitations of flats/apartments. **(4mks)**

e) Identify three ways of storing dressmakers' pins. **(3mks)**

f) Give two uses of salt in laundry work. **(2mks)**

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22. a) Give the function of the following machine parts. **(3mks)**

i. Spool pin
ii. Stop motion screw
iii. Tension disc

b) Mention four ways of preventing malaria disease in the community. **(4mks)**

c) State three characteristics of a table used in the home for ironing. **(3mks)**

d) Describe the procedure of taking the following body measurements.

i.Hips **(2mks)**

ii.Crotch **(2mks)**

e) Give three reasons for eating food rich in vitamin C. **(3mks)**

f) Suggest three problems a child who is obese may encounter. **(3mks)**

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EXCELLING STUDENTS FORM TWO
END TERM 2 HYBRID EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

ISLAMIC RELIGIOUS EDUCATION/314
FORM TWO (2)
Time: 2 Hours

INSTRUCTIONS:
1. This paper contains five (5) questions.
2. Answer all questions.
3. Write your answers in the answer sheet provided.
4. All answers must be in English.

1.a) Give five reasons why mankind needed the revelation of the Qur'an. **(6mks)**
b). Mention 5 teachings of surah Al-Fatiha. **(5mks)**
c) Explain the benefits of compilation of the Qur'an. **(10mks)**

2.a) Identify six ways in which prophet Muhammad (p.b.u.h) used to teach and spread his sunnah and hadith. **(6mks)**
b) Explain the significance of Hadith in the life of Muslims. **(7mks)**
c) List down five nullifiers of sawm. **(7mks)**

3. a) Explain the following terms as used in Hajj (pilgrimage), **(5mks)**
i.Hajj Al Qiran
ii. Ihram
iii. Miqat
iv. Tawaf
v.Yaumul Tashriq
b) Describe five conditions that human beings will face on the day of resurrection before judgement. **(10mks)**
c) Why is it important for Muslims to believe in the day of Qiyamah? **(5mks)**

4. a) State five benefits of exercising self-control. **(7mks)**
b) Explain the consequences of zinaa in the society. **(5mks)**
c) Discuss the factors that contribute to the rise of divorce cases in the society. **(8mks)**

5.a) Identify five rights of a Muslim husband. **(5mks)**
b) State the forms of persecution that early Muslims were subjected to by the Quraish in Makkah. **(7mks)**
c) Mention the contributions made by sheikh Abdallah Swaleh Farsy to the growth of Islam in East Africa. **(8mks)**

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EXCELLING STUDENTS FORM TWO
END TERM 2 HYBRID EXAMS

JINA: …….

SHULE: ……..

NAMBARI YA USAJILI: ……. SAHIHI:……..… TAREHE: ……

Maagizo:

1.Jibu maswali yote.
2.Majibu yote yaandikwe katika nafasi ulizoachiwa katika karatasi hii ya maswali
3.Majibu yote **lazima** yaandikwe kwa lugha ya Kiswahili
4.Karatasi hii ina kurasa 9 zilizopigwa chapa
5.Watahiniwa ni lazima wahakikishe kuwa kurasa zote za karatasi hii zimepigwa chapa sawasawa na kuwa maswali yote yamo.

Kwa Matumizi ya Mtihani Pekee.

Swali	Upeo	Alama
1. UFAHAMU	15	
2.MATUMIZI YA LUGHA	40	
3.ISIMUJAMII	10	
4.FASIHI SIMULIZI	15	
Jumla	80	

1. UFAHAMU (alama 15)

Soma habari ifuatayo kisha ujibu maswali.

Asifuye mvua imemnyea. Huu ni msemo wenye hakika isiyopingika, na kuutilia shaka ni sawa na kudai jua linaweza kubadilika na kuchomozea upande wa magharibi badala ya mashariki. Huu ndio ukweli uliodhihirika juzi katika vyombo vyetu vya magazeti.

Lisemwalo lipo na kama halipo li njiani. Waama, pafukapo moshi pana moto. Mwanafunzi mmoja wa kike kwa jina P.N. katika chuo kikuu kimojawapo nchini aliushangaza umma wa Kenya na ulimwengu kwa jumla alipodai kuwaambukiza wanafunzi wenzake wa kiume mia moja na ishirini na wanne virusi vya ukimwi.

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Kisa na maana? Aliambukizwa ukimwi na mwanafunzi mwenzake aliyekuwa akifanya majaribio ya ualimu katika shule yao ya upili. Baada ya kushawishika sana alijuana naye kimwili, na matokeo yakawa kifo ambacho sasa alikuwa anawagawia wenzake.

Kisa kama hiki kinachangia kueleza kina kirefu cha kutamauka na upweke ambao maisha ya waja wengi yameingia kiasi cha kuwaacha wanyama ijapo wanaenda kwa miguu miwili bado. Katika mafunzo mojawapo ya kidini ambayo padre alinifunza mimi na wanafunzi wenzangu, tuliambiwa kisasi ni chake Mola, sisi waja yetu ni kushukuru tu. Mbona basi mwanafunzi kama huyu kutaka kulipiza?

Ima fa ima, na Waswahili husema, Mlaumu nunda na kuku pia." Huyu mwanafunzi hawezi kuachiwa atende alivyotenda. Aliyekula naye raha alikuwa mtu aliyefahamika vizuri sana kwake. Isitoshe, huenda wakati huo alikosana na mama na baba kwa kulala nje. Huenda alikosana na ndugu zake kwa kutoroka nyumbani usiku wa manane kwenda kumwona huyu kalameni. Huenda alikosana na mwalimu wake kwa sababu kiburi kilianza kuingia. Kwa vyovyote vile, alikula raha na hastahili kuwaadhibu watu wasio na hatia kufidia makosa yake. Je, kama yeye na huyo jamaa wasingekuwa na ukimwi , raha kiasi gani wangezila hadi leo?

Jamii na watu wote kwa ujumla hawana budi basi kulaani vitendo vya P.N vya kuwaambukiza wanafunzi wenzake virusi huku akijua. Hili ni kosa ambalo linastahili adhabu ya kifo. Dawa ya moto ni moto, na hatua inastahili kuchukuliwa haraka ili P.N. ambaye tayari amekiri hatia, atiwe nguvuni na adhabu itolewe.

Barua ya P.N. imefafanua jambo jingine sugu. Kwamba kiwango cha maadili katika vyuo vyetu kimezorota kiasi cha kufanyiana unyama usiosemeka. Vijana wengi siku hizi wanashiriki tendo la ndoa nje ya ndoa bila haya. Huu upotovu wa maadili katika jamii wapaswa kushutumiwa na wote. P.N. hana sababu yoyote ya kibinadamu, kidini au kitu chochote kile kudai haki kwa uovu wake.

MASWALI

a) Ipe habari hii kichwa mwafaka**.** **(Alm1)**

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b) Katika aya mbili za mwanzo, mwandishi wa makala haya anamlaumu mwanafunzi kwa kosa gani?

(Alm2)

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c) Eleza chanzo cha tabia za P.N. **(Alm2)**

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d) Mwandishi wa makala haya anapendekeza hatua gani ichukuliwe dhidi ya P.N. na kwa nini? **(Alm3)**

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e) Barua ya P.N. imeonyesha uvumbuzi mpya. Utaje**.** **(Alm2)**

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f) Kwa maoni yako, visa vya utovu wa nidhamu miongoni mwa wanafunzi vinaweza kukabiliwa vipi? **(alm2)**

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f) Eleza maana ya vifungu vifuatavyo kama vilivyotumika katika taarifa. **(Alm3)**

i) Kina kirefu cha kutamauka

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ii) Ima fa ima

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iii) Kufidia makosa yake

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2. MATUMIZI YA LUGHA (ALM40)

a) Kwa kuzingatia hali ya mtetemeko wa nyuzi za sauti, taja aina mbili kuu za sauti. **(alm2)**

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b) Tofautisha sauti zifuatazo: /ny/ na /ng'/ **(alm2)**

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c) Tia shadda katika neno lifuatalo ili kutoa maana mbili tofauti. **(alm2)**

Barabara

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d) Tunga sentensi na uonyeshe kirai nomino na kirai kihusishi **(alm2)**

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e) Tunga sentensi kwa kutumia maneno yafuatayo kwa kuzingatia aina iliyomo mabanoni

i) wote (Kiwakilishi**)** **(alm1)**

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ii) Kisumu (Kielezi**)** **(alm1)**

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f) Maneno haya yanapatikana katika ngeli gani**?** **(Alm2)**

Nywele **……**

Chumvi**……...……..**

g) Eleza maana nne za sentensi ifuatayo. **(Alm4)**

Juma alimpigia Hassan mpira.

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h) Andika upya sentensi ifuatayo ukitumia kisawe cha neno lililopigiwa mstari. **(alm1)**

Maskauti hupandisha <u>bendera</u> kila Ijumaa.

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i) Andika sentensi ifuatayo katika wakati ujao hali ya kuendelea. **(Alm2)**

Mkulima analima shamba lake.

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j) Sahihisha kwa njia tatu. **(Alm3)**

Humu petu ni kuzuri.

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k) Karabati sentensi hii. **(alm2)**

Mgeni ambaye aliyekuja atarudi kesho.

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l) Kamilisha sentensi zifuatazo ukitumia neno lifaalo kutoka mabanoni **(alm2)**

Musa aliiba pesa ..... akafikishwa ..... (kortini, kotini)

m) Tunga sentensi moja moja kuonyesha matumizi ya alama za kuafikisha ulizopewa**.** **(alm2)**

Kistari kifupi

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kibainishi

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n) Changanua kwa mistari **(alm4)**

Mwanafunzi stadi alipita mtihani vizuri

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o) Andika kwa wingi; **(alm2)**

Kondoo huyu na mbuzi yule ni wa mfugaji yupi?

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p) Kanusha sentensi ifuatayo;

Utaenda dukani kununua kiamshakinywa **(alm2)**

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q) Geuza sentensi katika kauli ya kutendwa.

Mama anapika chakula kitamu **(alm2)**

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r) Andika sentensi hii katika wakati ujao hali timilifu**.** **(alm2)**

Dada ameenda sokoni

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3.ISIMU JAMII

" Mabibi na mabwana mimi Bw. Nyundo nawahakikishieni kuwa this *time round* lazima tushinde kwa kura safufu. Sivyo? Na tutawakanyaga wale wanyonge daima……..

(a) Tambua sajili inayorejelewa **(alm1)**

(b) Ukirejelea kifungu hiki eleza sifa zozote nne za sajili hii. **(alm4)**

(c) Kiswahili ni lugha ya kibantu. Thibitisha **(5mks)**

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5. FASIHI SIMULIZI **(ALAMA 15)**

Soma kifungu kifuatacho kisha ujibu maswali

Sungura alivyokwepa kuliwa na simba

Wanyama wa pori waliamua siku moja kumtuma mnyama mmoja kila siku alikoishi simba kama chakula. Siku moja ilikuwa zamu ya sungura kwenda huko. Sungura alikuwa mjanja sana. Alipanga mpango mzuri wa kumwangamiza simba.

Alienda alikoishi simba muda mrefu baada ya muda wa chakula wa simba. Alimkuta simba akiwa na hasira kubwa sana.

" Kwa nini umechelewa jinsi hii?" aliuliza kwa hasira.

"Bwana wee,'' alisema sungura kwa sauti ya upole.

''Nilichelewa kwa sababu simba mwingine alinikimbiza. Nilitaabika sana kabla ya kupata upenyu wa kutoroka.''

''Simba mwingine? Je, katika pori hili?'' aliuliza simba.

''Ndiyo bwana mkubwa. Najua anakoishi. Tuandamane nikakuonyeshe," alisema sungura. Simba alijitayarisha kuandamana na sungura. Sungura aliongoza njia hadi walipofika mahali palipokuwa na kisima kikubwa. Sungura alimgeukia na kusema, ''Anaishi hapa. Tafadhali njoo umuone!''

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Simba alisogea ulipokuwa ukingo wa kile kisima. Aliyatupa macho huko na kukiona kivuli chake. Alidhani kuwa huyo alikuwa simba mwingine. Kwa hasira kubwa alifungua kinywa na kunguruma. Alimwona huyo simba mwingine akikenulia meno. Simba hakuweza kusubiri, alijitosa kisimani apambane na simba huyo. Huo ulikuwa mwisho wake. Sungura aliondoka akicheka akifurahi kuwa sasa wanyama hawataliwa tena na simba.

Maswali

a) i) Andika aina ya hadithi hii **(alm1)**

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ii) Taja sifa tatu za kutambulisha aina hii ya hadithi **(alm3)**

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iii) Fafanua umuhimu wa aina hii ya hadithi kwa jamii yako **(alm3)**

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b) Eleza sifa nne za mtambaji bora katika fasihi simulizi **(alm4)**

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c) Tofautisha kati ya vipera viwili vya fasihi simulizi

.i) Mighani na maghani **(alm2)**

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ii) Lakabu na misimu **(alm2)**

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EXCELLING STUDENTS FORM TWO
END TERM 2 HYBRID EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN:……..… DATE: ……..

MATHEMATICS (Alternative A)
FORM 2
Time: 2½ Hours

Instructions

(a) *Write your name, admission number, school and class in the spaces provided above.*
(b) *Sign and write the date of examination in the spaces provided above.*
(c) *This paper consists of* ***two*** *sections****: Section I*** *and* ***Section II.***
(d) *Answer* ***all*** *the questions in* ***Section I*** *and* ***all*** *the questions from* ***Section II.***
(e) ***Show all the steps in your calculations, giving your answers at each stage in the spaces provided below each question.***
(f) *Marks may be given for correct working even if the answer is wrong.*
(g) *Non-programmable silent electronic calculators and KNEC Mathematical tables may be used, except where stated otherwise.*
(h) ***This paper consists of 16 printed pages.***
(i) ***Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.***

For Official Use Only

Section I

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

Section II

17	18	19	20	21	Total

Grand Total

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SECTION I (50 Marks)

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

1.Evaluate without using a mathematical table or calculator: **(3mks)**

$$\sqrt{\left(\frac{64^{\frac{1}{3}} \times 46656^{\frac{1}{3}}}{0.0001}\right)}$$

2.One – seventh of the money that was raised in a school fund raiser was used to renovate classes while two – thirds of the remainder was used for construction of a laboratory. If Kshs. 630,000 remained, calculate the amount of money that was raised. **(3mks)**

3.A rectangular room measuring 7.8 metres by 6 metres is covered by a number of whole square tiles with the largest possible dimensions. Calculate the least possible number of tiles required. **(4mks)**

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4.The following are the exchange rates that were used by a certain forex bureau in Kenya.

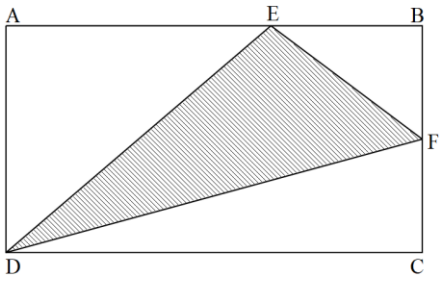
Currency	Buying (Kshs)	Selling (Kshs)
1 Euro (€)	133.20	134.60
1 Saudi Riyal	29.40	31.80

Farida arrived in Kenya with 4,000 Euros and converted the whole amount to local currency. She spent Kshs. 343,590 and converted the balance to Saudi Riyals before leaving for Riyadh, Saudi Arabia. Calculate the amount, in Saudi Riyals that she received. **(3mks)**

5.Two similar blocks have masses of 275.6 g and 81.6 g respectively. If the surface area of the smaller block is 340 cm², calculate the surface area of the larger block. **(3mks)**

6.Simplify completely $(2p + 3q)^2 - (3q - 2p)^2$ **(3mks)**

7.The figure below shows a rectangle ABCD in which DC = 11 cm, BC =7 cm, EB = 3 cm and F the midpoint of BC



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Calculate the area of the shaded part. **(3mks)**

8. A rectangular maize farm measures 100 m by 70 m. One length of the farm has a wall erected on it. The remaining three sides of the farm are to be fenced using poles at intervals of 6 m. How many poles will be used? **(2mks)**

9. The cost of three sweaters and four jumpers is Kshs. 10,650. The cost of 3 similar jumpers and four similar sweaters is Kshs. 9,300. Calculate the cost of a jumper and a sweater. **(3mks)**

10. George bought a computer and sold it to Eric at a profit of 10%. Eric then sold it to Ralph at a price of Kshs. 27,000 thus making a loss of 15%. Find the price Eric bought the computer from George. **(3mks)**

11. The sum of the interior angles of a regular polygon is 1080^0. Calculate

(a) The number of sides of the polygon **(2Mks)**

(b) The sizes of the exterior angles of the polygon. **(1mk)**

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12. Five men working for 8 hours a day take 2 days to cultivate an acre of land. How many days would four men working 10 hours a day take to cultivate 3 acres of land? **(3mks)**

13. A cyclist left Bondo at 7.45 a.m. and travelled to Kisumu. In Kisumu, he took a half-hour break and left for Kericho at 9.55 a.m. If the distance from Bondo to Kisumu is 60 km, calculate the average speed of the cyclist. **(3mks)**

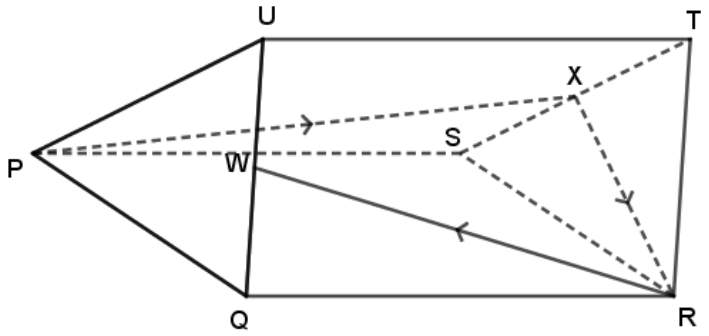
14. Use logarithms only to evaluate **(4mks)**

$$\sqrt{\frac{0.4271 \times 609.3}{80.08^2}}$$

15. Using a ruler and a pair of compasses only, construct triangle ABC such that AB =7.8 cm, BC = 5.5 cm, and angle ABC = 135^0. Find the length of the perpendicular from C to AB produced. **(4mks)**

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16. The figure below shows a triangular prism PQRSTU. W and X are midpoints of QU and ST respectively. On the surface of the prism is a continuous path PXRW.



(a) Draw and label the net of the prism **(2mks)**
(b) On the same net, show the path **(1mk)**

SECTION II (50 Marks)

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

17. A community water tank is in the shape of a cuboid of base 6 m by 5 m and height 4 m. A feeder pipe of diameter 14 cm supplies water to this tank at a flow of 50 cm per second. Take $\pi = \frac{22}{7}$
Calculate:

(a) (i) The capacity of the tank in litres **(2mks)**

(ii) the amount of water in litres, delivered to this tank in one hour. **(3mks)**

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(iii) the time taken to fill the tank **(2mks)**

(b) The community uses a full tank a day, with each family consuming an average of 150 litres per day. If each family pays a uniform rate of Kshs. 550 per month, find the total amount due monthly. **(3mks)**

18. A pirate boat sails from port **P** on a bearing of $N50^0E$ at a speed of 112 km/h, for 2 hours 30 minutes to port **Q**. From **Q**, it changed its course and traveled on a bearing of 155^0 covering a distance of 328 km to port **R**. From **R** it traveled to port **S** on a bearing of 220^0 from **R** and due south of **Q**.

(a) Using a scale of 1 cm to represent 40 km, draw a diagram showing the positions of ports **P**, **Q**, **R** and **S**. **(4mks)**

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(b) Use your scale drawing to find:

(i) The distance between ports **P** and **S**. **(1mk)**

(ii) The bearing of port **P** from port **R**. **(1mk)**

(c) A marine police patrol boat leaves port **P** to intercept the pirate boat at **M** as it moves from port **Q** to port **R** in the shortest time possible.

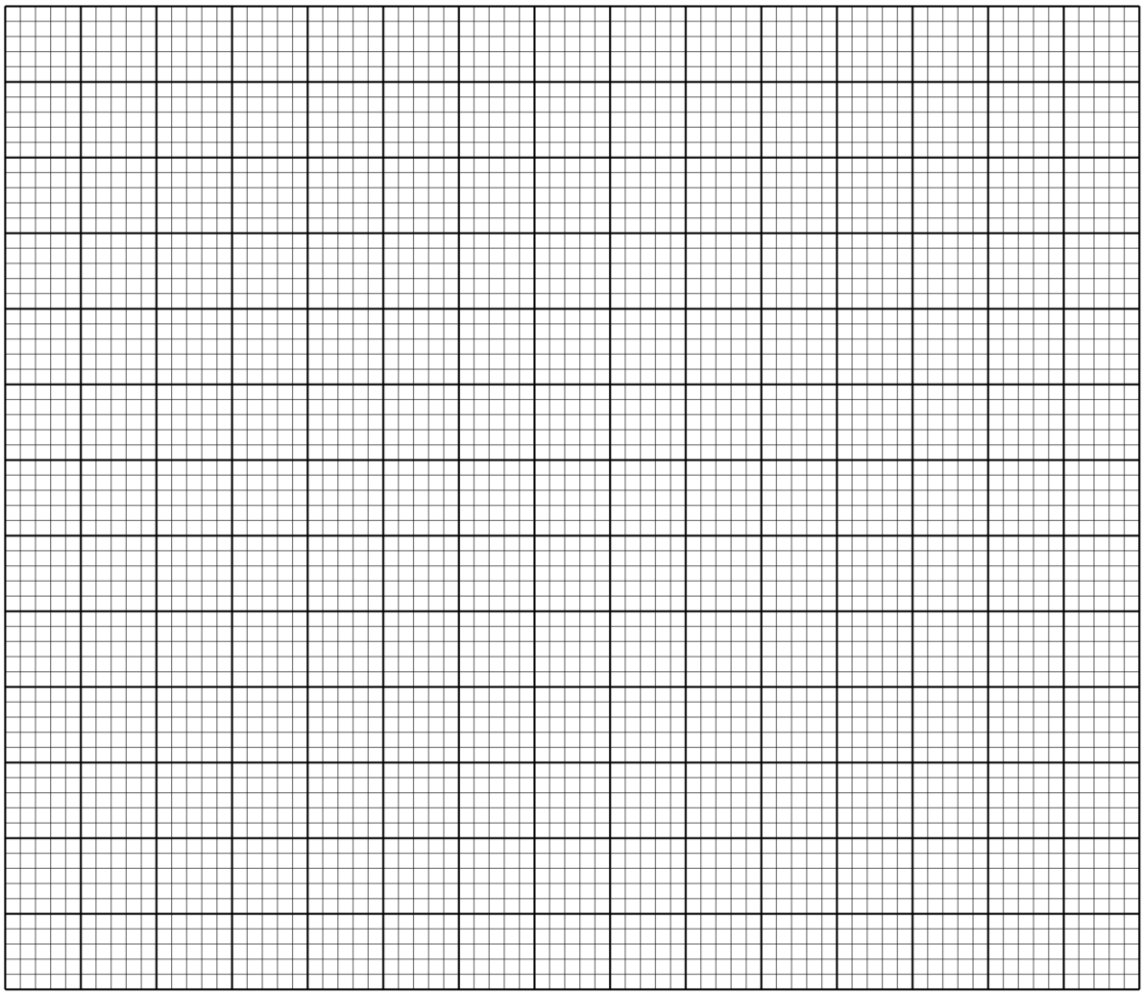
(i) How far from port **S** will the two boats meet at **M**? **(2mks)**

(ii) If the boats meet after 2 hours, what is the speed of the marine police boat? **(2mks)**

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19. On the grid provided,

(a) Draw a trapezium whose vertices are K$(6,-2)$, L $(7,-2)$, M $(8,-1)$and N $(6,-1)$ **(1mk)**



(b) On the same grid, draw:

(i) K′L′M′N′, the image of KLMN under an enlargement scale factor 3 about $(8,-4)$. State the coordinates of K′L′M′N′ **(3mks)**

(ii) K″L″M″N″, the image of K′L′M′N′ under a reflection in the line $x = 0$ **(2mks)**

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(iii) $K'''L'''M'''N'''$, the image of $K''L''M''N''$ under a rotation of $+90^0$ about (0, 0). **(2mks)**

(c) Describe fully, a single transformation that maps of $K'L'M'N'$ onto $K'''L'''M'''N'''$. **(2mks)**

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20. A line L_1 has the x and y intercepts as -3 and -5 respectively.

(a)Find the equation of L_1 in the form $ax + by = c$, where a, b and c are integral values. **(3mks)**

(b) Another line L_2 is perpendicular to L_1 and cuts the x-axis at 4. Find the equation of in the form $y = mx + c$ **(3mks)**

(c)Given that another line L_3 is parallel to L_2 and passes through point $(5,6)$, find the x and y intercepts of L_3. **(4mks)**

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21. Faith is a sales lady with a company that pays her a basic salary of Kshs. 30, 000 per month and commissions on goods sold as follows:

- 0% on the first Kshs. 100, 000
- 3% on sales above Kshs. 100, 000 up to Kshs. 300, 000
- 7.5% on sales above Kshs. 300, 000

(a) In a certain month, she sold goods worth Kshs. 500,000. What was her total salary in that month? **(4mks)**

(b) In the next month, she earned a total of Kshs. 52, 500. Calculate the value of goods she sold that month. **(4mks)**

(c) Calculate the percentage change in her sales in the two months. **(2mks)**

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EXCELLING STUDENTS FORM TWO
END TERM 2 HYBRID EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN:……..… DATE: ……..

PHYSICS(QUESTION PAPER)

FORM 2

2 HOURS

Instructions to candidates

- Write your name and class in the space provided.
- This paper consists of two sections; **SECTION A** and **B**
- Answer **all** the questions in the spaces provided
- **ALL** working **MUST** be clearly shown.
- Mathematical tables and electronic calculators may be used
- Take: Acceleration due to gravity: **g = 10m/s^2** and density of mercury = 13600kgm^{-3}

Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

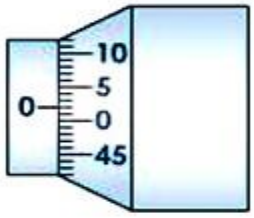
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Section	Question	Maximum Score	Candidate's Score
A	1 – 11	25	
	12	09	
	13	13	
	14	10	
	15	09	
	16	10	
	17	04	
	Total Score	80	

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SECTION A (25 MARKS)

1.The diagram below shows a micrometer screw gauge with its jaws closed.



The instrument was used to measure the diameter of a wire. Find the actual diameter of the wire if the reading on the instrument was 3.78mm. **(3mks)**

2.What is studied in waves as a branch of Physics? **(1mk)**

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3.State the kinetic theory of matter. **(1mk)**

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4.The figure 1 below shows the level of mercury and water in a beaker.

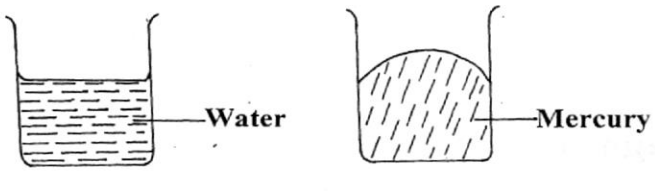


Fig 1

Explain the difference in the shape of the meniscus. **(2mks)**

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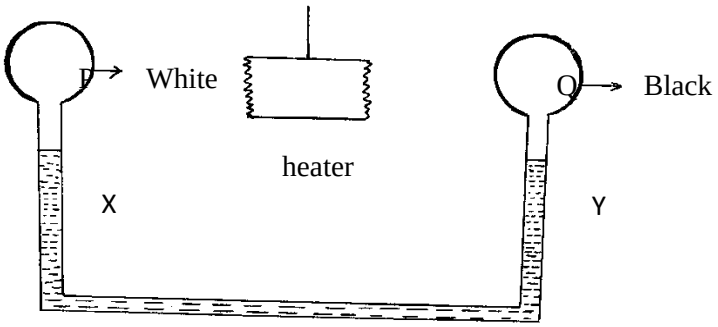
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5.The diagram below shows two bulbs P and Q painted white and black



Explain what happens when the heater is turned on for 5 minutes? **(2mks)**

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6.In a certain pinhole camera, the screen is 10cm from the pinhole. When the pinhole is placed 6m away from a tree, a sharp image of a tree 16cm high is formed on the screen. Find the height of the tree. **(3mks)**

7.A faulty mercury thermometer reads 40^0C and 120^0C when placed in pure ice and steam from boiling water respectively. Determine the actual temperature when this thermometer reads 60^0C. **(3mks)**

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8.A positively charged sphere is suspended by an insulating thread. A negatively charged conductor Is suspended near it. The conductor is first attracted, after touching the sphere, it is repelled. Explain this observation **(2mks)**

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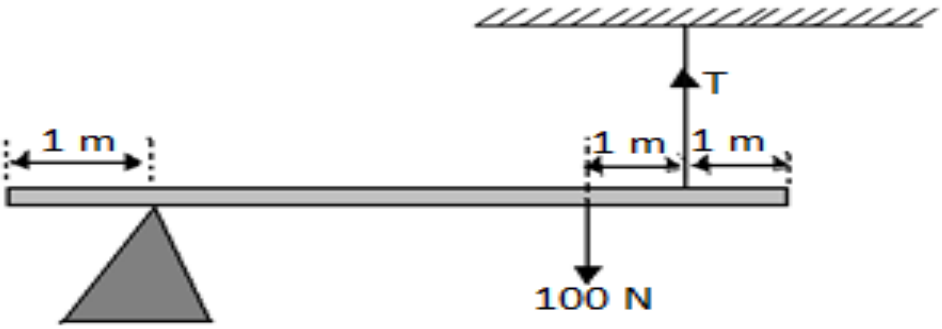
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9.The figure below shows a uniform plank of length 6.0m acted upon by the forces shown. If the plank has a weight of 300 N.



Calculate the tension T in the string **(3mks)**

10. State three ways in which the strength of an electromagnet can be increased**.** **(3mks)**

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11. Explain the cause of the bright specks in constant random motion as observed in Brownian experiment using a smoke cell. **(2mks)**

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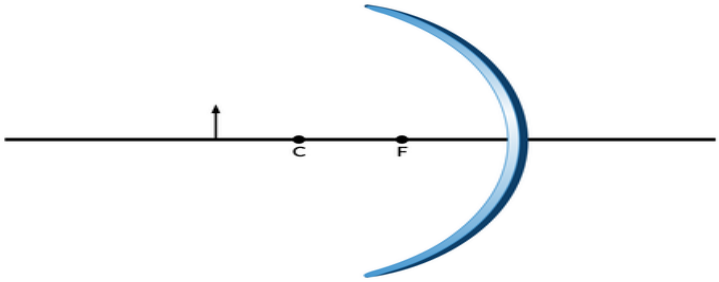
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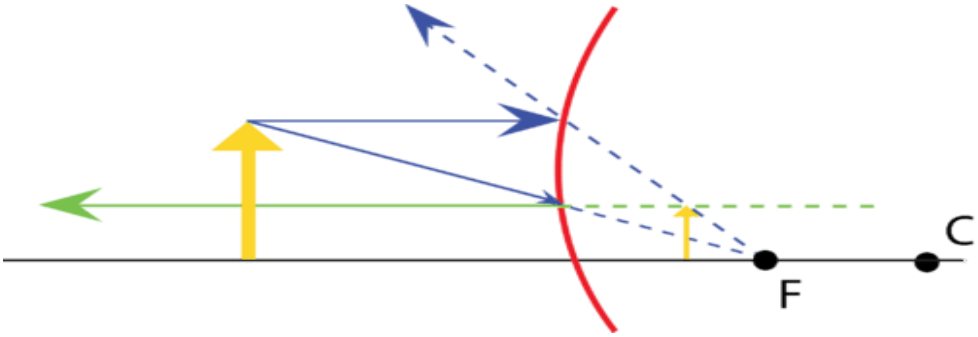
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SECTION B (55 MARKS)

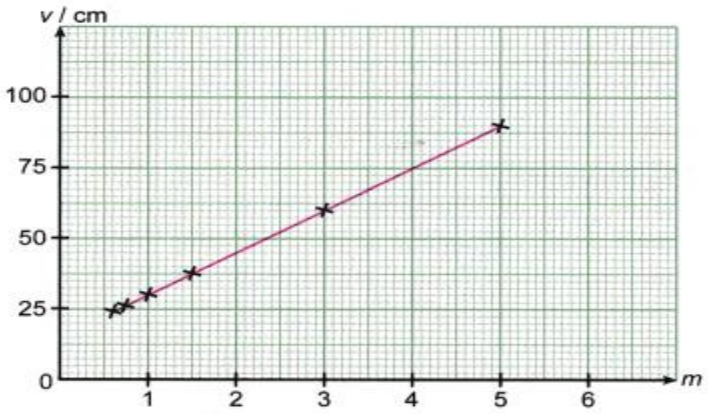
12. (a) Figure below shows an object placed in front of a concave mirror. Complete the ray diagram to show the position of the image. **(3mks)**



b) The figure below shows an image formed when an object is placed in front of a mirror. Name one application of this set up. **(1mk)**



c) In an experiment to find the focal length of a concave mirror, a student obtained the graph shown below.



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d) Find the slope of the graph. **(2mks)**

e) Use the formulae $M = \frac{v}{f} - 1$ to find focal length f of the mirror used. **(3mks)**

13. (a) Explain why walking on a murram road in bare feet is more painful than walking on sand. **(2mks)**

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(b) A rectangular block measures 10cm x 5cm x 4cm and has a mass of 2.2kg.

(i) If the gravitational field intensity is 10N/kg, find the weight of the block. **(2mks)**

(ii) determine the area of the smallest face of the block. **(2mks)**

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(iii) Calculate the maximum pressure will the block exert on a surface. **(3mks)**

(iv) A person's lung pressure as recorded by a mercury manometer is 90 mm Hg. Express this pressure in SI units. **(3mks)**

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c) State Pascal's principle of transmission. **(1mk)**

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14. When a drop of olive oil of radius 1.26mm is placed on the surface of water, it spreads out to form a circular film of diameter 42cm. Calculate;

(a) The volume of the olive oil drop in m^3 (Take $p = {}^{22}/_{7}$) **(3mks)**

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(b) Using the value of **(a)** above, estimate the thickness of the film. **(3mks)**

(c) Explain why lycopodium powder is sprinkled on the surface of water before the oil is dropped on it.**(1mk)**

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(d) State **three** assumptions made when finding the thickness of the film formed. **(3mks)**

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15. (a) State the basic law of magnetism. **(1mk)**

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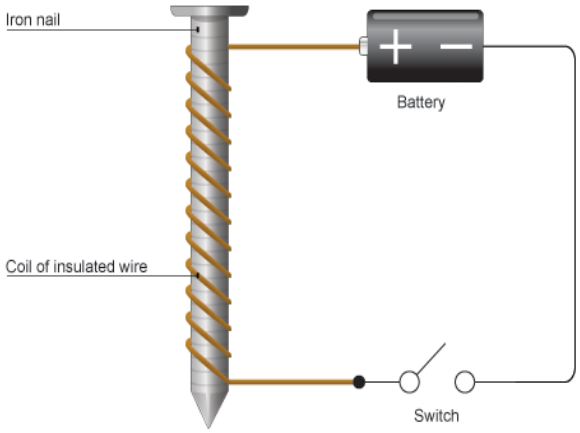
(b) Give a reason why repulsion is the surest way for testing a magnet. **(1mk)**

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(c) The diagram below shows a nail being magnetized



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i.Name the pole created at the sharpest point of the nail. **(1mk)**

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ii. Explain in terms of domain theorem the phenomenon that is taking place in the nail. **(1mk)**

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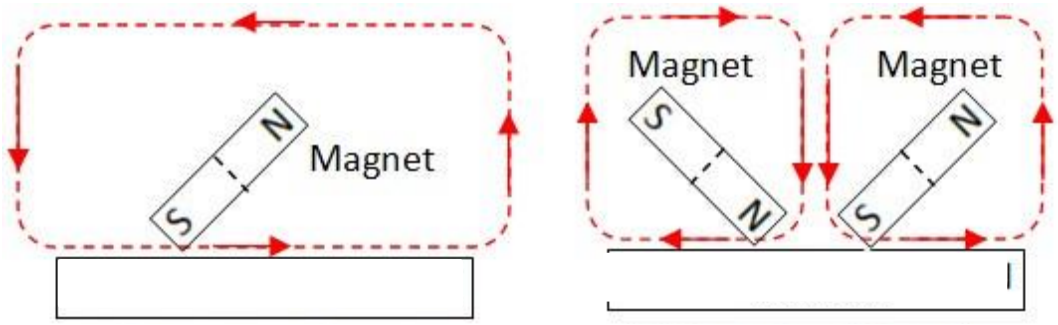
iii. Give a reason why the strength of the electromagnet above cannot be increased beyond a particular level. **(1mk)**

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(d) The figure below shows two steel bars being magnetized through stroking method and placed close to each other.



Show on the diagram the polarities created on the ends of the two steel bars. **(4mks)**

16. (a) Define center of gravity of a body. **(1mk)**

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b) In the thin triangular laminar ABC shown in figure below, determine geometrically the centre of gravity **(2mks)**

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(c) Use simple sketches to show the three states of equilibrium. **(3mks)**

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(d) State **two** factors affecting stability of body **(2mks)**

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e) Name two applications of stability **(2mks)**

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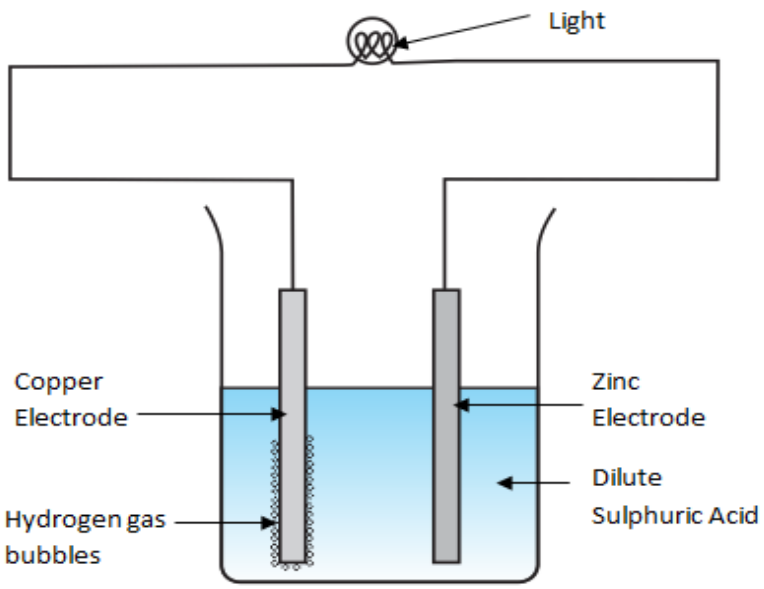
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1. (a) Define the term electric current. **(1mk)**

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(b) The figure below shows a simple cell being used to light a bulb



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i. Name the defects experienced by the two electrodes.

Copper electrode **…… (1mk)**

Zinc electrode **…… (1mk)**

ii. State one way of minimizing the defect in the zinc electrode above **(1mk)**

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