

FORM 2 TERM 2 OPENER

ALL SUBJECTS

SET 1

Well organized standard set of Term 2 Opener exams to FORM 2 students in All Kenyan High Schools.

ALL THE BEST!

For Marking Schemes

Call/Text/Whatsapp 0705525657

COURTESY OF MWALIMU PUBLISHERS.

FOR MARKING SCHEMES CALL/WHATSAPP 0705525657

TERM 2 OPENER EXAMS

BIOLOGY

FORM TWO

TIME: 2 HOURS

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

SIGN..... DATE;.....

1. Explain the following terms:

A) Taxonomy (1mk)

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B) Species (1mk)

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2. State the function of the following organelles

Lysosomes (1mk)

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Golgi apparatus (1mk)

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3. Name the form in which carbohydrates are stored in ; (2 marks)

Plant tissues

Animal tissues

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4. Name three photosynthetic cells in plants (2mks)

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5. State three structural differences between arteries and veins(3mrk)

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

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

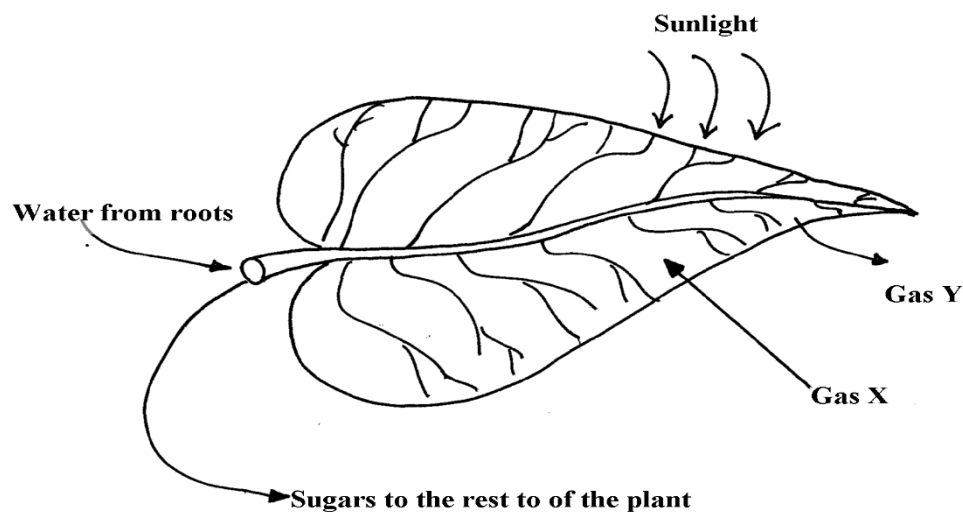
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8. The following diagram of a leaf shows what happens in a pant leaf during photosynthesis:

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a) Give two ways in which leaves are adapted to absorb light(2mrks)

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b) Name the gases labelled X and Y(2mrks)

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c) Name the tissue that transports water into the leaf and sugars out of the leaf (2mrks)

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d) Explain why it's an advantage for the plant to store carbohydrates as starch rather than as sugars (2mrks)

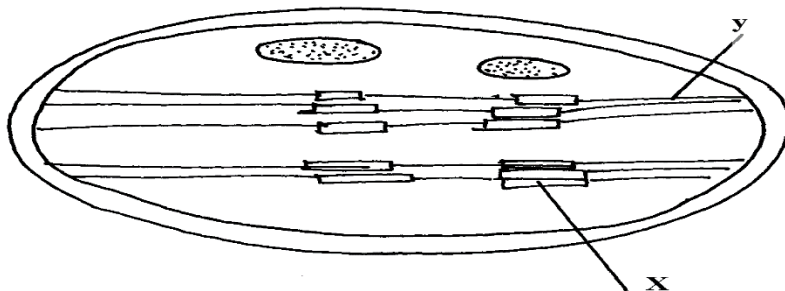
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9. The diagram below represents a cell organelle



a) Name the part labelled Y (1mrk)

b) State the function of the part labelled X (1mrk)

10. State the role of emulsification in the digestion of fats in the alimentary canal (1mrk)

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11. What is the function of hydrochloric acid in the alimentary canal? (2MRKS)

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12. What is meant by the term gaseous exchange (1mrks).

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13. Name and explain the characteristics of gaseous exchange surfaces. (4mrks)

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14. State three ways in which leaves of plants are adapted to gaseous exchange (3mrks)

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15. Explain stomatal distribution in plants of different habitats (6 mks)

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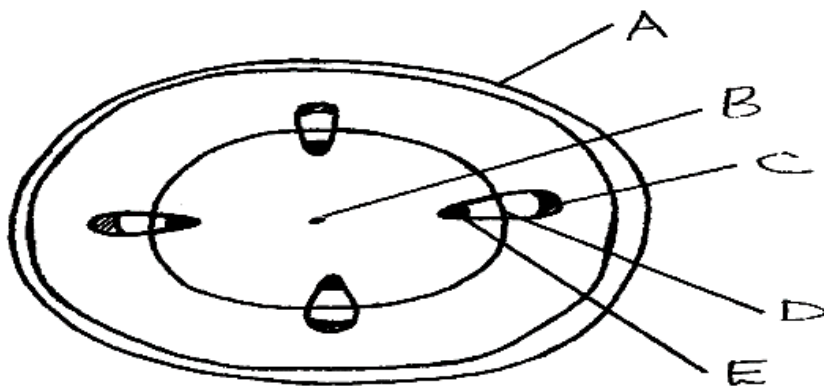
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16. The diagram below represents a transverse section of a young stem.



a) Name the parts labelled A, B and D (3mrks)

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b) State the functions of the parts labelled C and E (2mrks)

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- c) List three differences between the section above and the one that would be obtained from roots of the same plant. (3mrks)

17. Distinguish between guttation and transpiration (2mrks)

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18. Other than transport, state one other function of xylem tissue in plants (1mrk)

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19. Identify the part of the heart that initiates the heart beat (1mrk)

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20. Give a reason why the left ventricle muscles are thicker than the right ventricles muscles (2mrks)

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21.State the forms in which carbon (IV) oxide is transported in the blood

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22.Explain how the following adaptation reduce transpiration in xerophytes

(a) Sunken stomata (2mrks)

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(b) Thick waxy cuticle (1mrk)

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a. Name the:

23.(a) Material that strengthens xylem tissue(1mrk);

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(b) Tissue that is removed when the bark of a dicotyledonous plant is ringed (1mrk)

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24.Why is it dangerous to sleep in an enclosed room with a burning jiko(3mrks)?

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25. Why do plants not take in oxygen during the day although they need it for respiration
(2mrks)

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26. Draw and label the structure of a gill. (5mrks)

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TERM 2 OPENER EXAMS

AGRICULTURE

FORM TWO

TIME: 1HR 30MINUTES

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

SIGN..... DATE;.....

NAME ADM CLASS.....

Instructions:

Answer all the questions in the spaces provided

1. State four biotic factors that influence Agriculture. (4mks)

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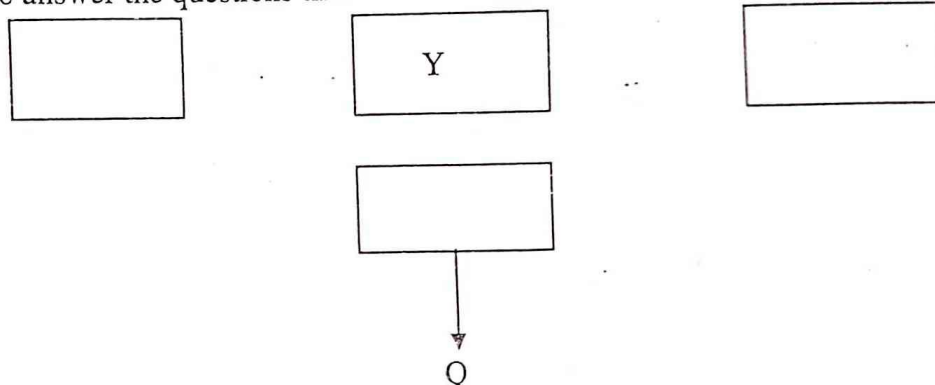
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2. The diagram below illustrates a method used to prepare compost manure. Study it carefully and use it to answer the questions that follow.

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a) Name the method used to prepare this type of compost. (1mk)

b) Label the parts X and Z in the diagram. (2mks)

c) By use of arrows show how each material in pits X would be moved to pit Y to pit Z. (2mks)

3. Give three practices that may help in achieving minimum tillage. (3mks)

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4. List four characteristics which enables goats to live successfully in marginal areas.(4mks)

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5. Name two products obtained from a camel. (2mks)

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6. List three maintenance practices done on saws. (3mks)

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7. State four reasons why farmers should keep farm records. (4mks)

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8. Differentiate between macro and micro- nutrients. (2mks)

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b. Give three examples of macro-nutrients used by plants.

(3mks)

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9. Name three examples of phosphatic fertilizers used by farmers in crop production. (3mks)

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10. Give two methods of fertilizer application.

(2mks)

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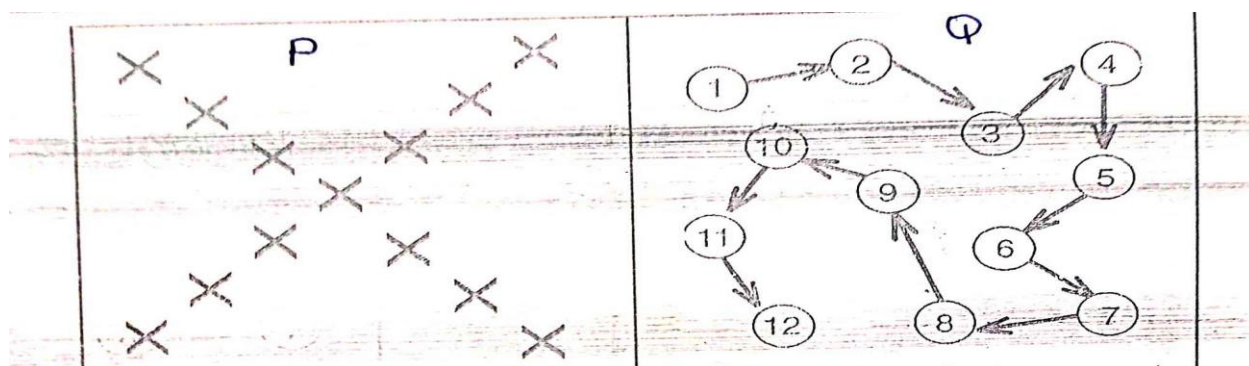
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11. A farmer was advised to apply 150kg of C.A.N/ha while top dressing the maize crop.

C.A.N contains 21% N. calculate the amount of Nitrogen applied per ha.

(3mks)

12. The diagrams below represent soil sampling methods study them and use them to answer the questions that follow.



a) Name sampling method P and Q.

(2mks)

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b) Give three areas to avoid during sampling.

(3mks)

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13. State three methods used to determine soil pH.

(3mks)

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14. List four advantages of using seeds as planting materials.

(4mks)

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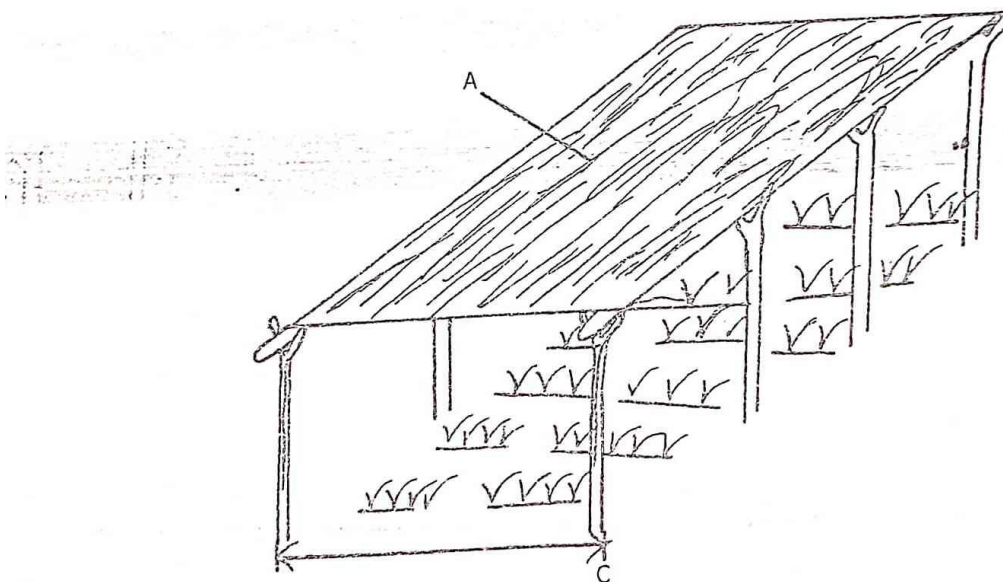
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15. Give parts used in the propagation of the following crops.

(5mks)

- a) Sweet potatoes
- b) Bananas
- c) Sisal
- d) Tea
- e) Irish potatoes

16. Below is a diagram of a nursery for raising tomato seedlings. Use it to answer the questions that follow.



- a) Give two advantages of part labeled A on the diagram above. (2mks)

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b) State any three management practices that should be carried out on the nursery from the time seedlings emerge to the stage of transplanting. (3mks)

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17. Outline four importance of raising seedlings in a nursery bed. (4mks)

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b) State four factors that should be considered when selecting a nursery site. (4mks)

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c) Name two types of layering used in vegetative propagation. (2mks)

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TERM 2 OPENER EXAMS

BUSINESS STUDIES

FORM TWO

TIME: 2 HOURS

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

SIGN..... DATE;.....

INSTRUCTIONS: *Answer all questions in the spaces provided*

1. Outline **four** services offered by wholesalers to retailers. (4 marks)

- (a)
- (b)
- (c)
- (d)

2. State **four** benefits enjoyed by a trader who does not sell on credit. (4 marks)

- (a)
.....
- (b)
.....
- (c)
.....
- (d)
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3. Highlight **four** features of a good filing system. (4 marks)

- (a)

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(b)

(c)

(d)

4. State **four** roles of an entrepreneur in production. (4 marks)

(a)

(b).....

(c).....

(e)

5. State **four** benefits of running a sole proprietorship business. (4 marks)

(a)

(b)

(c)

(d)

6. Highlight **four** factors that a trader may consider when determining the appropriate means of transport. (4 marks)

(a)

(b)

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(c)

(d)

7. List **four** ways the government may regulate business activities in a country.(4 marks)

(a)

(b)

(c)

(d)

8. State **four** benefits that a farmer may derive from being a member of a producer co-operative society

(i).....

(ii).....

(iii).....

(iv).....

9. Identify the terms given to each of the following statements. (4 marks)

	Statement	Term
a.	Transport goods from producers to consumers	
b.	Activities carried out with a view of making profit.	
c.	A person who uses a good or service.	

d.	Increasing the usefulness of a good or services	
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10. Outline **four** disadvantages of containerization to a trader.

(4mks)

(i)

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(ii)

.....

(iii)

.....

(iv)

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11. Highlight **four** reasons why horizontal communication is necessary in an organization.

(4mks)

(i)

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(ii)

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(iii)

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(iv)

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12. Outline **four** important documents that are required in the registration of a public company.

(4mks)

(i)

.....

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(ii)

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(iii)

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(iv)

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13. Identify four ways in which consumers can be exploited by traders. (4marks)

i)

.....

ii)

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iii)

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iv)

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14. Highlight **four** features of indirect production. (4marks)

(i)

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(ii)

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(iii)

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(iv)

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(4marks)

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(10 marks)

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TERM 2 OPENER EXAMS

CHEMISTRY

FORM TWO

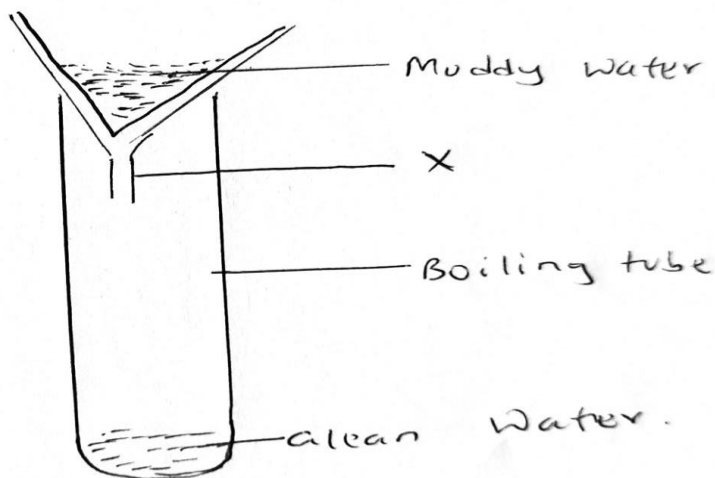
TIME: 1 ½ HOURS

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

SIGN..... DATE;.....

Answer all the questions in the spaces provided.

1. The diagram below shows how muddy water can be made alkane. Study it and answer the questions that follow.



(a) Name the apparatus labeled X.

(1 mk)

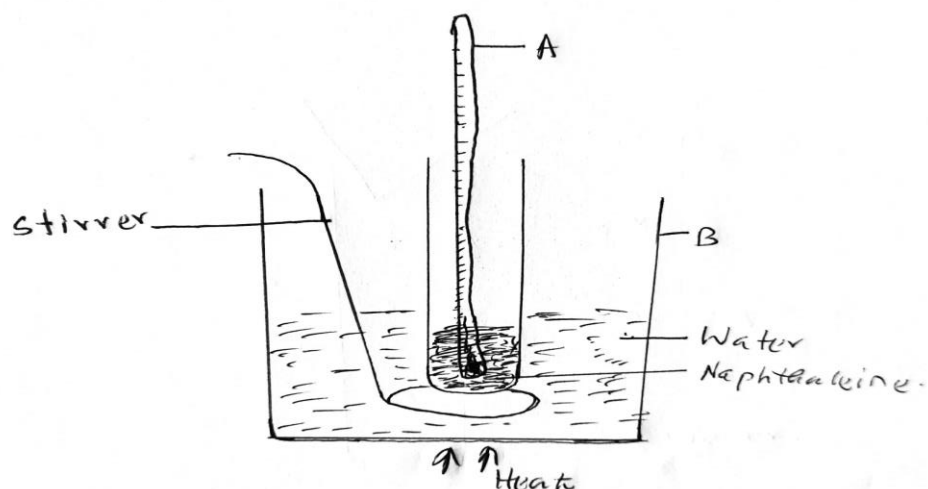
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(b) Give a reason why the clean water took a long time to drop into the boiling tube.(2 mks).

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2. In the experiment to study the effect of heat on naphthalene the following set up was used.



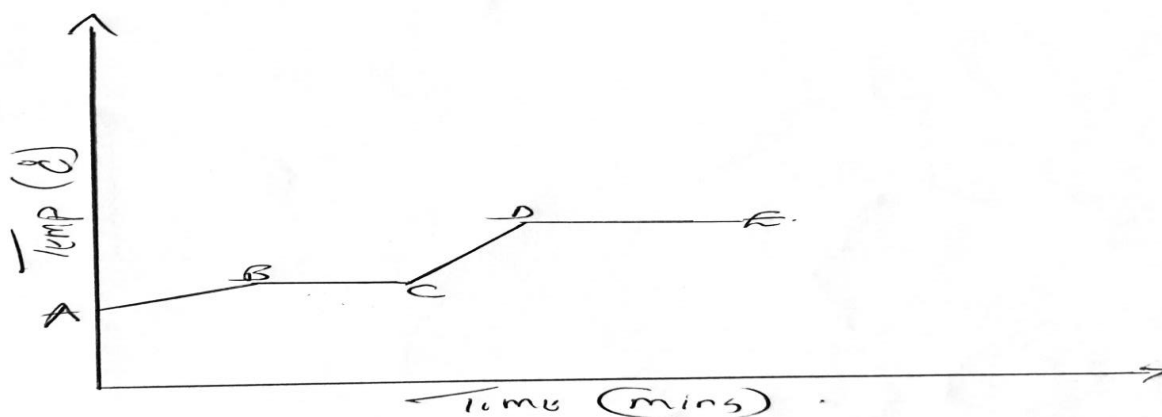
(a) Name the apparatus labeled A and B.

(2 mks)

A -

B -

(b) The curve shown below was obtained when solid naphthalene was heated to boiling.



(i) Explain in molecular terms the changes occurring in portions :- (2 mks)

(i) DE –

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(ii) What is the significance of portion BC? (1 mk)

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3. In the process of separating or extracting oil from castor oil seeds in the laboratory, students from MWALIMU schools crushed the seed sand then added propanone (acetone) instead of water.

(a) Why were the seeds first crushed? (1 mk)

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(b) Explain how the oil can be separated from propanone. (2 mks)

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4. Name the method of separation that can most suitably be used to separate the following mixtures.

(a) Gasoline from petroleum - (1 mks)

(b) Benzoic acid from potassium carbonate - (1 mk)

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(c) Oil from Cashew nuts -

(1 mk)

5. What is the role of the following parts during fractional distillation of a mixture of water and ethanol.

(i) Fractionating column -

(1 mk)

(ii) Glass beads in the fractionating column

(1 mk)

(b) State any one application of the fractional distillation process.

(2 mks)

6. The figure below shows a section of the periodic table. The letters do not represent the actual symbols of the elements.

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(a) Give the name of the family of the elements to which M belongs. (1 mk)

(b) Write down the electronic configuration of the stable ion of elements. (2 mks)

(i) L –

(ii) P

(c) Give one use of elements.

(2 mks)

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(d) What is the structure of element J. (1 mk)

(e) With explanation, compare the atomic radius of O and P. (2 mks)

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(f) What is the family name given to the group number to which element E belongs to? (1 mk)

(g) With reasons, compare the atomic radius of elements B and A. (2 mks)

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(h) State two industrial use of element B. (2 mks)

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(i) With reason compare the reactivity of E and A. (3 mks)

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(j) Write down the formula of the compound formed when D and A react. (1 mk)

(k) What type of bond is formed when element E reacts with oxygen? Give a reason for your answer.

(2 mks)

(l) Which is the most reactive non-metal? Explain. (2 mks)

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7. (a) What is an isotope? (1 mk)

(b) An element Q consists of 3 isotopes of mass 28, 29 and 30 and percentage abundance of 92.2%, 4.7% and 3.1% respectively. Determine the relative atomic mass of the element.

(3 mks)

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

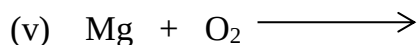
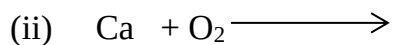
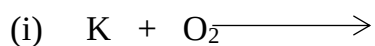
<u>Formula of Ion</u>	<u>Electronic configuration.</u>
E^{2+}	2
D^-	2.8
C^+	2.8.8
B^{3+}	2.8
A^{2+}	2.8

(a) Select the elements found in:-

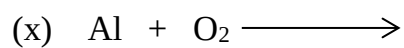
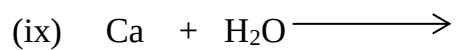
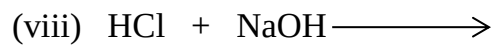
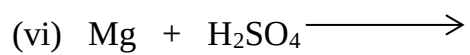
(i) The same group - (1 mk)

(ii) Period three - (1 mk)

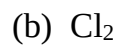
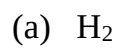
9. Complete the following equations and balance them off. (2 mks)



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10. Using dots and crosses to represent electrons, draw the structures of the following. (4 mks)



TERM 2 OPENER EXAMS

CHRSTIAN RELIGIOUS EDUCATION

FORM TWO

TIME: 1HR: 30MIN

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

SIGN..... DATE;.....

1. Give six responsibilities given to human beings during the creation. (6 mks)

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2. Why is the bible referred to as the word of God (5 mks)

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3. Describe the covenant between and Abraham

(7mks)

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4. Explain four ways on how Moses was prepared by God to be the future leader of Israelites
(8mks)

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5. Which lessons do Christian leaders learn from the achievements of king David (7mks)

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6. State the characteristics of the Canaanite religion. (5mks)

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7. Identify the moral values taught in Tradition African Community (6mks)

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8. Give ways in which Africans showed respect to the ancestors (5mks)

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9. In which six ways did Jesus fulfilled the Old Testament prophecies about the coming of the Messiah. (6mks)

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10. What roles did John the Baptist play in preparing the way for the Messiah (5mks)

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11. How was the birth of Jesus going to be extra-ordinary? (5mks)

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12. What are the teaching of Jesus on the Qualities of true discipleship from the sermon on plain (5mks)

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TERM 2 OPENER EXAMS

ENGLISH

FORM TWO

TIME: 1HR

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

SIGN..... DATE;.....

Instructions:

Answer all the questions in the spaces provided

1. Your wildlife club will host the club members from a neighbouring school for three day camping next month. You expect about thirty people, your club plans to prepare some tea and snacks.

a) Prepare a shopping list of the things you would require for the camping period,

(8mks)

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FOR MARKING SCHEMES CALL/WHATSAPP 0705525657

b) After the camping you are required to write a three day personal journal of the experience. (12mks)

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FOR MARKING SCHEMES CALL/WHATSAPP 0705525657

2. **Question 2: Cloze test (10mks)**

Numerous ____1____ by researchers have proved that good personal hygiene can keep many illness ____2____ bay. Simple practices such as storing food in containers that ____3____ lids and boiling or disinfecting drinking ____4____ are recommended, other practices are brushing your teeth after ____5____ meal, taking a bath at least once daily and ____6____ soiled clothes and bedding. However, there are people who ____7____ that such practices are not important. To ____8____ matters to do with hygiene only matter when they are hospitalized. They feel that ____9____ lives are ____10____ busy for them.

3. **Poetry (15mks)**

First sight

Lambs that learn to walk in snow
When their bleating clouds the air
Meet a vast unwelcome, know
Nothing but a sunless glare
Mainly stumbling to and fro
All they find, outside the fold
Is a wretched width of cold.

Questions

a) Describe the rhyme scheme of the poem. (2mks)

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b) Identify three pairs of rhyming words in the poem. (3mks)

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c) Mention any two verbal and two non-verbal cues you would use in the poem.

(4mks)

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d) Identify and illustrate two sound devices used in the poem.

(4mks)

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e) Give another word that is pronounced the same as the ones below.

(2mks)

i. Air

ii. To

Oral skills (10mks)

Read the genre below and answer the questions that follow.

4. Sister Susie's sewing shirts for soldiers.

a) Identify the genre above.

(1mk)

FOR MARKING SCHEMES CALL/WHATSAPP 0705525657

b) Name other two genres that are in the same categories as the one above.

(2mks)

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c) **Underline the silent letter in the following words according to pronunciation.**

(3mks)

i. What

ii. Dormitory

iii. Leopard

d) **Identify the odd one out depending on the pronunciation of the sound underlined**(4mks)

i. Rough, stuff, bough, photograph

ii. Fetched, wanted, laughed, raked

iii. Herd, bird, heart, fur

iv. Attempt, receipt, leapt

5. Grammar (15mks)

a. **Use suitable quantifiers phrases to complete the sentences below.** (3mks)

i. I gave her _____ of advice to help her improve her manners.

ii. There is _____ noise coming from that room.

iii. Ngugi wrote _____ of his early novels while still in Kenya.

b. **Fill in the blanks with suitable pronouns.** (4mks)

i. Can _____ be good friends, you and I have know each other long enough.

FOR MARKING SCHEMES CALL/WHATSAPP 0705525657

- ii. I cannot allow _____ to take over the restaurant before she is well trained.
- iii. The cat drank _____ milk.
- iv. _____ should obey the law.

c. **Fill in the gaps using the right order of objectives in the brackets.** (4mks)

- i. I live in a _____ house (furnished, old, large)
- ii. There is a _____ rug in the room (soft, wonderful, woollen)
- iii. I have a _____ clock (useful, alarm, digital)
- iv. Have you seen this _____ car (fantastic, german, new)

d. **Give the plural form of the words below.** (4mks)

- i. Commander-in-chief
- ii. By-law
- iii. Bedding
- Iv. knowledge

TERM 2 OPENER EXAMS

KISWAHILI

FORM TWO

TIME: 2 HOURS

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

SIGN..... DATE;.....

ALAMA: 70

1. INSHA (AL 20)

ANDIKA INSHA YENYE MANENO YASIYOPUNGUA MIA 400 INAYOAFIKI

METHALI 'MCHUMIA JUANI HULIA KIVULINI'

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FOR MARKING SCHEMES CALL/WHATSAPP 0705525657

FOR MARKING SCHEMES CALL/WHATSAPP 0705525657

2. UFAHAMU

FUNGUA SESAME

Jina la Nimrod lilipotea mara tu alipoanza kufanya kazi jijini Nairobi. Marafiki na jamaa zake waliamini kuwa alikuwa amejiriwa huko mjini ingawa hakuna aliyejua kazi yenyewe vizuri. Hata hivyo waliamini kuwa lazima alikuwa na *kibonge cha kazi* kwa sababu alivalia kinadhifu na kuishi maisha ya starehe. Tena yeye mwenyewe alikazania kusema kuwa amejiriwa kazi ya maana. Marafiki zake walimfahamu kama “Bwana Sesame”. Mtu wa kwanza aliyempa jina hilo alisema alipendezwa na ujuzi na maarifa yake. “huyu hakosi ufumbuzi wa tatizo loote. Ni kama ule mlango wa kisa cha Ali Baba na *Wezi arobaini*. Ukisema ‘fungua Sesame’ unafunguka tu,” alisema mtu huyo.

Jamaa walioishi naye katika mtaa wa urumo walishangazwa na utaratibu wake wa kazi. Mchana kutwa alishinda chumbani mwake. Mara nyingi utamkuta *ametulia tuli* akitazama *runinga* yake ndogo. Wakati mwingine atakuwa akifanya kazi yake ndogo ndogo huku *akipiga mluzi* bubu, ambao haukusikika vizuri. Wakati mwingine atakuwa akisikiliza muziki kwenye chombo chake cha muziki kilichotingisha jingo zima kutokana na sauti yake nene.

Kwa kawaida alitoka chumbani jioni. Waliomjua walimchangamkia kutokana na uchangamfu wake. Alipenda sana mizaha. Waliopenda *kupiga soga* walivutiwa na maongezi yake hasa kuhusiana na magari. Aliyajua magari mengi. Mimi naweza kujua aina ya gari kwa kuusikiliza mlilo wake tu”, alisema kila wakati. “wacha *kutuvungavunga* Bwana wee, haiwezekani!” atasema mwingine. “nini? Unajua mimi ndiye Bwana Sesame mwenyewe!” atasema, halafu wote *wataangua kicheko*.

Ilifika wakati kampuni kadha zilipoamua kuwapunguza wafanyakazi wake kutokana na hali mbaya ya kiuchumi. Lakini Bwana Sesame hakuwa mmoja wa hao. Hali yake ilibakia vile vile. Aliendelea kuvalia kinadhifu na kuishi maisha yake ya *fawaishi*. Wakati wenzake wanalalamikia hali ngumu ya maisha, Bwana Sesame hakuwa na lolote la kumsumbua. Aliendelea kukaa bila

kazi wala bazi. Lakini watu walitambua kuwa alikua na mazoea ya kutoka chumbani majira ya jioni. Hakuna aliyejua alirejea lini.

Siku moja Bwana Sesame alitoka jioni kama kawaida na kuelekea kwenye shughuli zake za kawaida. Siku hiyo jamaa mmoja wa mtaani alikumbana naye kwenye lango kuu. “Bwana Sesame, leo wapi yahe? alimwuliza. Bwana Sesame alimwangalia na kusema, “natoka nje kidogo yahe. Jiji hili lataka ustaarabu,’ alijibu. Yule jamaa alimwangalia na kumwambia na kumwambia, “nina shida kidogo, sijui kama utanifaa mwenzangu. Wajua tena hali zenyewe siku hizi,” alisema. Nini tena?” aliuliza Bwana Sesame.

“nina gari langu ambalo halina redio. Natafuta moja ya bei nafuu.... Kitu kama *sony* hivi,” alisema. Bwana Sesame alimwangalia na kusema, “hiyo kazi nyepesi kwangu yahe, papai kwa kijiko!” alisema Bwana Sesame alicheka. Jamaa Yule alishukuru na wakaagana.

Bwana Sesame alishika njia kuelekea sehemu zake za kawaida majira kama haya. Naye Yule jamaa akapinda kama anaangalia mtaani, lakini baada ya muda akageuka na kuamua kumfuata Bwana Sesame.

Bwana Sesame *alishika tariki* mpaka sehemu ya mazoea. Yule jamaa alimfuata kwa mbali na mwendo wa paka. Alimwona Bwana Sesame akiingia mahali palipokuwa na banda kuukuu. Muda si muda alitoka na jamaa wengine wakiwa wamevalia maguo ya ajabu. Yule jamaa aliwafuata hadi mahali palipokuwa na ujia mwembamba ulioachana na barabara kuu. Alijificha mahali, na kutokana na hali ya sehemu ile akawa haonekani.

Muda si muda palitokeza gari dogo lililokuwa likiendeshwa na mwanamke mmoja. Bwana Sesame na wenzake walitokeza na kutupa gogo lililomzuia Yule mwanamke.

Ghafla bin vuu walimvamia; wakaifungua milango ya gari mbio na kujivurumisha ndani. Gari lilitimuliwa kama risasi kuelekea upande wa pili. Wakati huo Yule jamaa ashaliangalia gari lenyewe na kuzihifadhi nambari zake. *Alishika njia* kurudi zake chumbani.

Siku iliyofuata huyo jamaa hakuwa kazini. Alipokuwa akifungua kinywa alisikia sauti ya kugongwa kwa mlango. Aliinika na kwenda kuufungua. Bwana Sesame aliingia ndani. “vipi yahe? Kujenda kazini leo? Au umelala sana Bwana?” alisema Bwana Sesame kwa uchangamfu wake. Muda si muda alimwonyesyesha redio ya gari aliyokuwa nayo. “umeipata mara moja hii

kumbe?’ aliuliza Yule jamaa. “si nilikwambia yahe! Mimi ndiye Bwana Sesame mwenyewe. Hii kwangu si kazi. Ninafahamiana na jamaa wengi wanaoifanya kazi hii,” alisema Bwana Sesame. “naona kweli. Ehh Bwana we! Ndipo waswahili wakasema, *ukitaka kuvua vua na wavuvi!* Alisema Yule jamaa. “ni kweli kabisa!” alijibu Bwana Sesame huku akicheka kwa furaha.

Yule jamaa alisimama kuelekea chumbani. Bwana Sesame alitulia akisubiri kupokea ujira wake. Muda mfupiulipita, kisha mlango wa nyumba ukagongwa. (yahe Bwana, kunagogwa huku!” Bwana Sesame akasema. Yule jamaa alitoka chumbani na kuelekea mlangoni. Mlango ulipofunguliwa waliingia waliingia askari polisi wawili. Bwana Sesame hakuwa na *upenyu* wa kutokea. *Alitiwa mikononi*. Hakujua kumbe Yule jamaa alikuwa kachero. Hapakuwa na ujanja tena. Siku hiyo *pwagu alipata pwaguzi*. Fungua Sesame haikufaa tena.

Maswali

1. Kwa nini Nimrode alibatizwa ‘Bwana Sesame’? (al 1)

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2. Kwa nini watu walioishi mtaani Urumo walishangazwa na utaratibu wa kazi wa Bwana Sesame? (al 2)

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3. Unafikiria ni kwa nini Bwana Sesame alifahamu sana juu ya magari? (al 1)

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4. Je, unafikiri yule jamaaa aliyaagiza aletewe radio alikuwa na haja sana na kifaa hicho kama alivyosema? (al 2)

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5. Bwana Sesame alikuwa kachero. Unakubali? Toa maelezo? (al 2)

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6. Yule jamaa alipoingia chumbani na kumwanch Bwana Sesame sebuleni unafikiri alikwenda kufanya nini? (al 2)

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7. Je, hadithi hii ina mafunzo gani kwako? (al 2)

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8. Eleza maana yamisemo ifuaayo kisha aitumie katika sentensi (al 3)

- a) Piga mluzi
- b) Piga soga
- c) Shika tariki

3. Matumizi ya lugha (al20)

a) (i) Taja ala sogezi mbili za kutamkia (al2)

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(ii) Tambua sauti yenye sifa zifuatazo (al 1)

konsonanti, kipasuo, ghuna, sauti ya mdomo

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b) Tunga sentensi moja na uonyeshe nomino dhahania (al 2)

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c) Tambua aina za maneno zilizopigiwa mistari

Mwanafunzi mrefu alienda Nairobi (al1)

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d) Bainisha ngeli ya nomino iliyopiwa mistari. (al 1)

Jeshi la Kenya lilihamisha kifaru hadi mbuga ya masai mara.

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e) Taja aina mbili za mofimu. (al 2)

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f) Taja dhana zinazowakilishwa kisarufi na viambishi vilivyopigwa mistari (al 1)

Walituchezea

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g) Bainisha kivumishi katika sentensi hii (al 2)

Matunda mawili yaliuzwa

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h) Tunga sentensi ili kubainisha tofauti za kimaana kati ya maneno haya udogo na udongo
(al2)

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i) Kwa kutumia sentensi moja onyesha vitenzi sambamba (al 2)

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j) Tunga sentensi moja na uonyeshe kiwakilishi kimilikishi (al 2)

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ISIMU JAMII

a) Eleza maana ya istihali zifuatazo za isimujamii (al 2)

I. Isimu jamii

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II. Sajili

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b) Matumizi ya lugha hutegemea mambo kadhaa. Yaeleze yoyote manne (al 8)

- i.
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- ii.
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- iii.
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- iv.
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FASIHI (AL 10)

Soma shairi hili kisha ujibu maswali yanayofuatia

Malenga mlotukuka, kwa tungo zenu teule
Tungo zenye kusifika, zenye na nasaha tele
Naomba la uhakika, jawabu enyi wavyele
Wa kuume tangu lini, kuukata wa kushoto!

Tangu dahari miaka, mikono ina upole
Meungana pasi shaka, ni miwili vile vile
Mmoja ukisumbuka, mwingine hujaa ndwele
Wa kuuma tangu lini, kuukata wa kushoto!

MASWALI

1. a. Shairi hili ni la arudhi. Dhibitisha kwa kutoa sababu tatu (al 3)

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b. Nakili kibwagizo cha shairi hili (al 1)

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c. Eleza ujumbe mmoja unaojitokeza kwenye shairi (al 2)

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2. a. Taja aina zo zote mbili za hadithi (al 2)

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b. “nikitembea yuko, nikikimbia yuko, nikiingia ndani hayuko

i. tambua kipera hiki (al 1)

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ii. taja dhima moja ya kipera hiki kijumla (al 1)

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TERM 2 OPENER EXAMS

MATHEMATICS

FORM TWO

TIME: 2 HOURS

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

SIGN..... DATE;.....

INSTRUCTIONS TO THE CANDIDATES:-

- Write your **name** and **index number** in the spaces provided above.
- Sign and write the **date** in the space provided above.
- This paper consists **two** sections: **Section I and Section II.**
- Answer **all** the questions in **Section 1** and any **two** questions from **Section II.**
- All working and answers **must** be written on the question paper in the spaces provided below each question.
- Show all the steps in your calculations, giving your answers at each stage in the spaces provided below each question.
- Non-programmable silent electronic calculators and KNEC mathematical tables may be used, except where stated otherwise.

For Examiners' Use Only.

Section I

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

Section II

Questions	17	18	19	20	21	22			Total
Marks									

GRAND TOTAL

FOR MARKING SCHEMES CALL/WHATSAPP 0705525657

SECTION A (50 MARKS)

Answer all questions in this section

1. Simplify

(3mks)

$$\left(3\frac{1}{5} - \frac{2\frac{1}{2}}{3\frac{1}{3}}\right) \div 6\frac{1}{2}$$

2. Solve the following simultaneous equation

3mks

$$x + 2y = 7$$

$$x - y = 1$$

3. Use logarithms to evaluate the following

(4mks)

$$\sqrt[3]{\frac{0.07893}{37.8 \times 43.81}}$$

4. Awinja is 100m from the foot of a tower and the angle of elevation of the tower from her position is 49° . Find the height of the tower
(2mks)

6. What is the total value of digit six in the solution to $1725 - 125 + 6591 \div 39 \times 5$ of 90?
(3mks)

6. A square **ABCD** is such that **A**(-3,4) **C**(2,3). Equation of line **AB** is $3y-2x=18$ and equation of line **CD** is $3y-2x=5$. Determine
(a) Equation of line **BC** in the form $y=mx+c$ (2mks)

(b) Equation of line **AD** in the form $y=mx+c$

(2mks)

7. A Kenyan bank buys and sells foreign currencies using the rates shown below.

	Buying	Selling
	(Ksh)	(Ksh)
1 Euro	86.25	86.97
100 Japanese Yen	66.51	67.26

A Japanese travelling from France arrives in Kenya with 5000 Euros, which he converts to Kenya shillings at the bank. While in Kenya he spent a total of Ksh.289,850 and then converted the remaining Kenya shillings to Japanese Yen at the bank. Calculate the amount of Japanese Yen that he received. **(3marks)**

8. A square brass plate is 2mm thick and has a mass of 1.05kg. The density of brass is 8.4g/cm^3 . Calculate the length of the plate in centimeters.

(3mks)

FOR MARKING SCHEMES CALL/WHATSAPP 0705525657

9. Solve the equation $-3x + 2 = x + 6$

(3mks)

10. The G.C.D of three numbers is 30 and their L.C.M IS 900. If two of the numbers are 150 and 60, what are other three possible third numbers? (3 marks)

11 Juma, Ali and Hassan share the profit of their business in the ratio 3: 7: 9 respectively. If Juma receives kshs 60, 000. How much profit did the Hassan get? (3 marks)

12. Use tables of logarithms to evaluate $\frac{0.3}{0.0351} + \sqrt{0.4983}$ (4 marks)

13. John who runs a clothing shop bought a shirt at Ksh. 500 and marked it at Ksh. 600. A customer bought it at Ksh. 550 after engaging John in a lengthy negotiation process. What was the customer's percentage discount. (3mks)

14. Line L passes through P(8,6) and perpendicular to the line $3y + 2x + 6 = 0$. Find the equation of line L and write it in the form $y = mx + c$. (3 marks)

15. Evaluate without using a calculator. (3 marks)

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

FOR MARKING SCHEMES CALL/WHATSAPP 0705525657

16. Express $0.\dot{7}\dot{3}$ as fraction.
(3 marks)

SECTION II (20 MARKS)

Answer any two questions in this section in the spaces provided

17. A trader sold an item at sh. 10,625 after allowing his customers 15% discount on the marked price of the item. In so doing he made a profit of 25%

i) Calculate the marked price of the item. (3marks)

ii) Calculate the price at which the trader had bought the item (2 mark)

iii) If the trader had sold the item without giving a discount, calculate the percentage profit he would have made. (3 marks)

iv. To clear his stock the trader decides to sell the remaining items at a loss of 10%. Calculate the price at which he sold each item. (2 marks)

18. The table below shows measurements of a farm in a fields book. $XY=2000m$

	Y	
	1800	G 100
F 200	1600	
	1200	E 300
	900	D 100
C 150	600	

	300	B 200
A 200	100	
	X	

(a) Using a scale 1cm rep 100m. Sketch the map of the farm (2mks)

(b) Calculate the area of the farm in hectares. (8mks)

19. Four towns **R,T,K** and **G** are such that **T** is 84km directly to the north of **R** and **K** is on bearing of 295° from **R** at a distance of 60km. **G** is on a bearing of 340° from **K** and at a distance of 30km.

(a) Using the scale of 1cm to represent 10km make an accurate scale drawing to show the relative positions of the towns. (3mks)

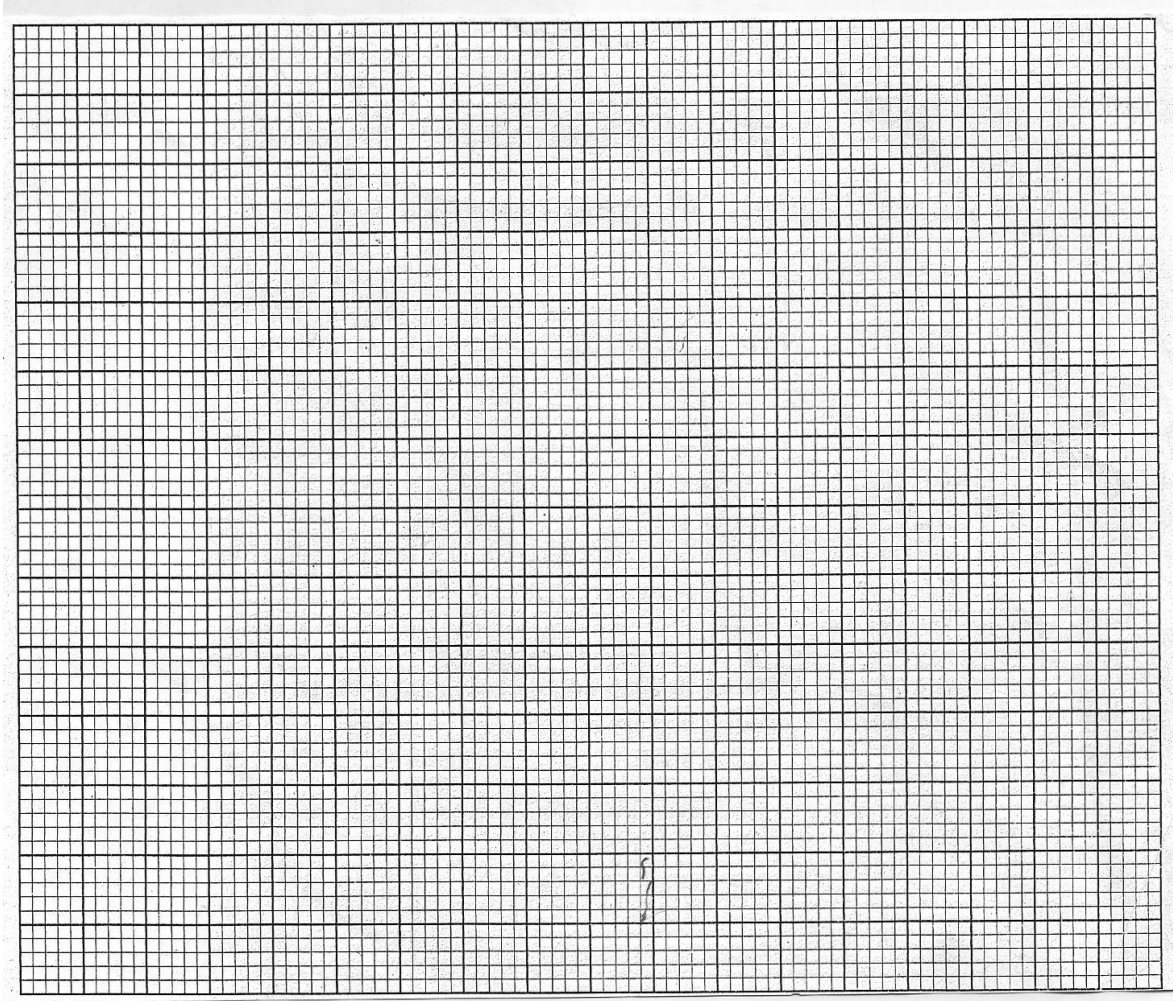
(b)Find:-

(i) The distance and the bearing of **T** from **K** (3mks)

(ii) The distance and the bearing of **G** from **T**. (3mks)

(iii) The bearing of **R** from **G** (1mk)

20. The points **A**(2,6) **B**(1,1) **C**(3,4) and **D** (5,3) are the vertices of a quadrilateral **ABCD**.



- (a) Plot points **A**, **B**, **C** and **D** on the graph provided and join them to form quadrilateral **ABCD**

(2mks)

(b) Locate and write down the coordinates of **A'**, **B'**, **C'** and **D'** and to the image of **ABCD** under a rotation of positive 90° centre (0,0) on the same grid

(3mks)

(c) Reflect **A'B'C'D'** on the x-axis and draw the image of quadrilateral **A'' B'' C'' D''**

(3mks)

(d) Draw the mirror line **MM** for the reflection of **ABCD** whose image is **A'' B'' C'' D''**

(2mks)

TERM 2 OPENER EXAMS

GEOGRAPHY

FORM TWO

TIME: 2 HOURS

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

SIGN..... DATE;.....

Instructions:

Answer all the questions in the spaces provided

1. Give two layers of discontinuity found in the internal layers of the earth. (2mks)

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- b. State three characteristics of the mantle. (3mks)

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2. Name two forms of precipitation. (2mks)

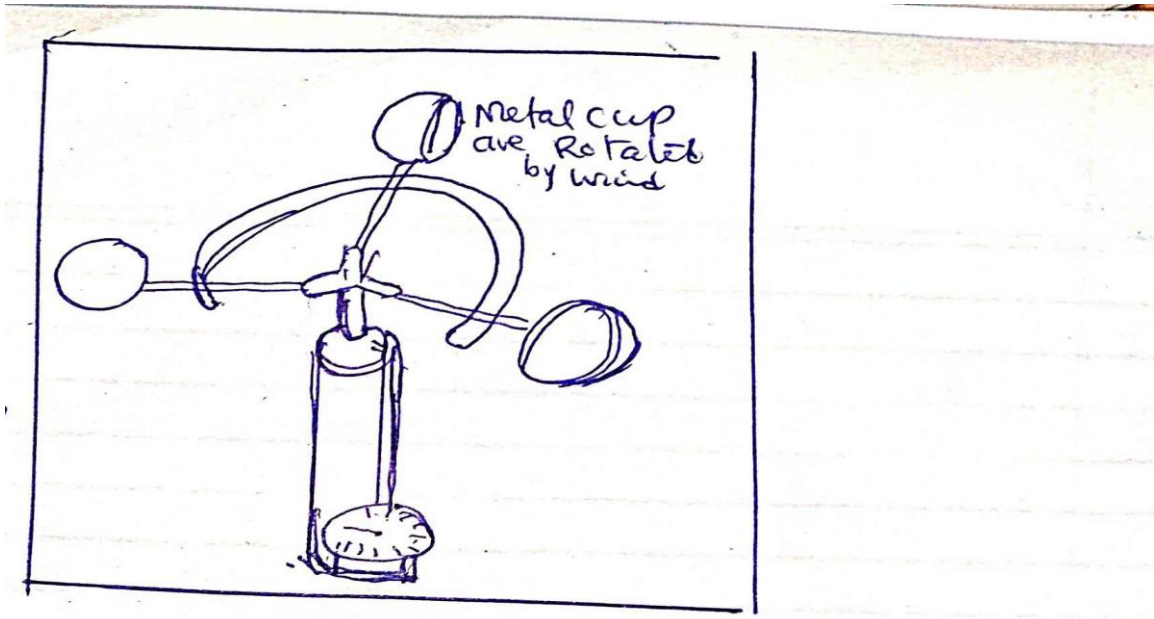
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b. Study the diagram below and answer the questions that follow.



i. Identify the diagram above.

(1mk)

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ii. Describe how the instrument is used in the weather station.

(4mks)

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3. Define the term mineral.

(2mks)

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b. Explain three forms of metamorphism.

(6mks)

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4. Name three causes of earth movement.

(3mks)

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b. Give three features formed as a result of horizontal earth movements.

(3mks)

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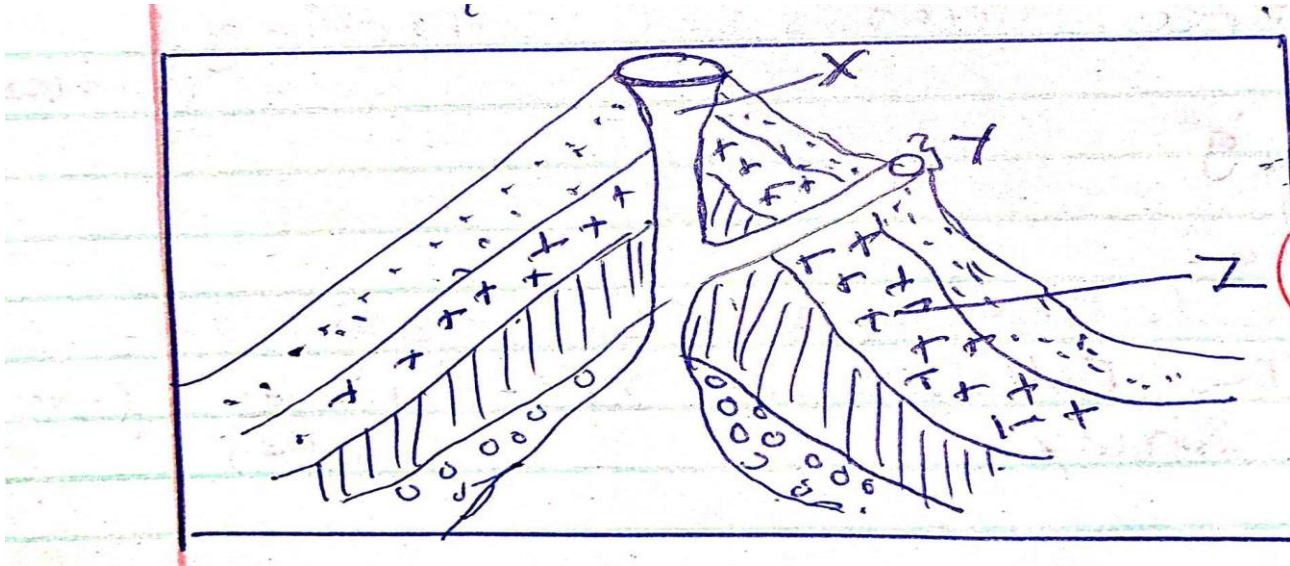
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5. Study the diagram below and answer the questions that follow.



i. Identify the features represented by the above diagrams.

(1mk)

ii. Name parts marked X, Y, Z.

(3mks)

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iii. Describe how the feature named above is formed.

(3mks)

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b. You are to carry out field study on volcanicity on Mt. Longonot in Kenya.

i. Give three methods of collecting data.

(3mks)

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ii. State the follow-up activities for the field. (3mks)

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6. Explain constructive consequences of vulcanicity to human activities. (6mks)

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b. Give three human activities that causes earthquakes. (3mks)

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c. State two modern methods of showing direction on maps. (2mks)

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ii. State four ways of locating places on a map. (4mks)

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iii. Name three methods of representing relief on topographical maps. (3mks)

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7. What is a photograph? (2mks)

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b. Explain three parts of a photograph. (6mks)

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8. The table below shows temperature distribution of Nakuru town in the year 2020.

Month	J	F	M	A	M	J	J	A	S	O	N	D
Temp °C	26	25	24	23	20	22	24	25	25	23	25	26

a) Calculate the annual range of temperature from above data. (2mks)

b) Using scale 1cm rep 5°C. Draw a simple line graph to present the information in the table above. (5mks)

TERM 2 OPENER EXAMS

HISTORY

FORM TWO

TIME: 2 HOURS

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

SIGN..... DATE;.....

TOTAL MARKS 70MARKS

INSTRUCTIONS

➤ Answer all questions in section A (25mks)

➤ Answer all the questions in section B (45MKS)

1. Define ethnology(2mks)
2. State three importance of studying history and government(3mks)
3. Highlight 2 characteristics of woodland apes(2mks)
4. List two factors that led to the development of early agriculture(2mks)
5. Name the person who invented the steel plough(1mk)
6. Apart from the Akamba name other two highland bantu(2mks)
7. Name two early visitors to the coast(2mks)
8. List any two exports from the east coast of Africa(2mks)
9. State any two principal trade routes during the long distance trade (2mks)
10. Name the two types of trade(2mks)
11. List three traditional forms of transport(3mks)
12. Highlight two traditional forms of communication(2mks)

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SECTION B (45MKS)

13. List three sources of energy during the industrial revolution(3mks)
b)explain six effects of the industrial revolution in Europe(12mks)
14. Name any 3 highland bantu(3mks)
b)discuss six positive impacts of modern communication(12mks)
15. State three methods used in obtaining slaves(3mks)
b)explain six reasons why seyyid said shifted his capital to Zanzibar in 1840(12mks)

TERM 2 OPENER EXAMS

PHYSICS

FORM TWO

TIME: 2 HOURS

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

SIGN..... DATE;.....

SECTION A;30MKS

1. Explain why repulsion between magnets is the surest way of confirming the polarity of a magnet. (2mks).

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2. In an experiment, a student obtained the thickness of an object as 6.40mm.

(i). state the accuracy of the instrument used.(1mk)

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(ii). Write the measurement in SI Units (1mk).

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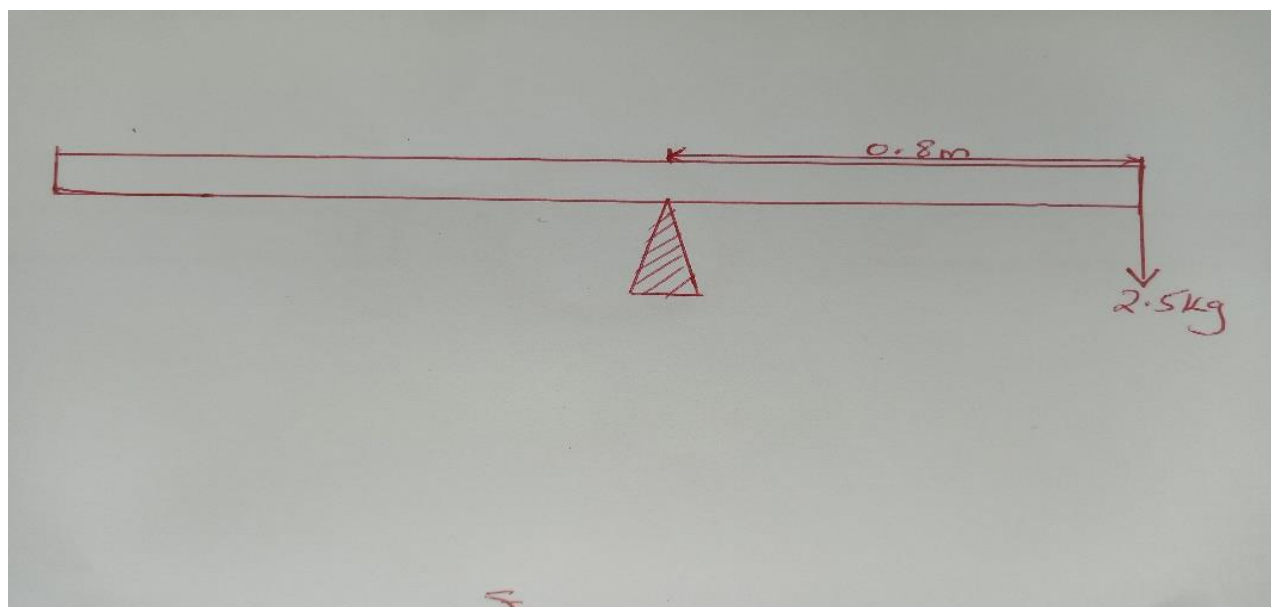
(iii). If the measuring instrument had a zero error of $+0.02\text{mm}$, determine the actual thickness of the object. (2mks).

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3. A bus that carries goods in the under seats carrier is more stable than one that carries goods in the carrier at the top. Explain this observation. (2mks).

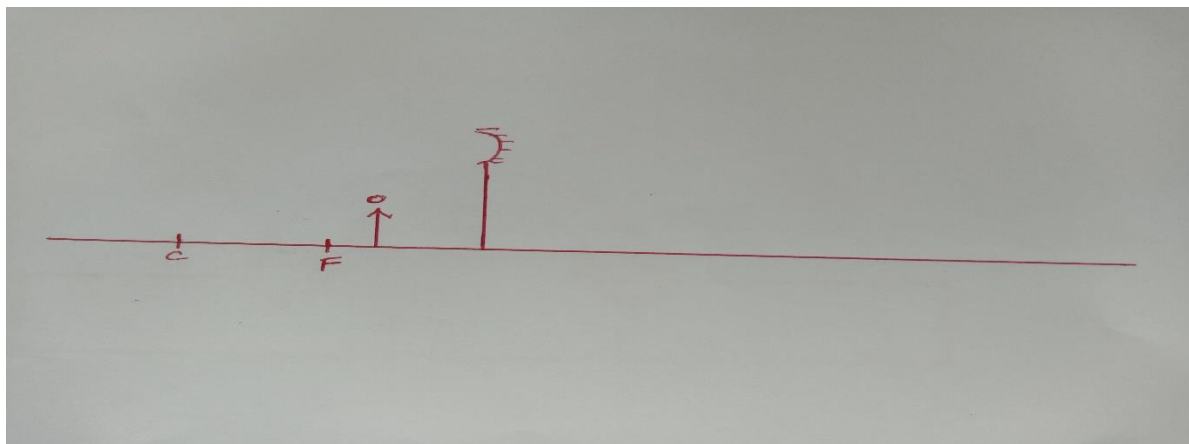
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4) The figure below shows a uniform wooden plank which weighs 10N . The plank is balanced at 0.8m from one end by a mass of 2.5kg .



Determine the length of the wooden plank in metres. (4mks).

5(i). Complete the diagram below to show the position of the image. (3mks).



(ii). Give TWO applications of the set-up shown above. (2mks).

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6. Give a reason why heat transfer by Radiation is faster than heat transfer by Conduction. (2mks).

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7. State THREE factors on which the rate of heat flow depends on. (3mks).

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8.Liquids expand when heated and contract when cooled. However this is not always true for water.

(i). what name is given to the behavior of water? (1mk).

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(ii). State TWO importance of this behavior of water. (2mks).

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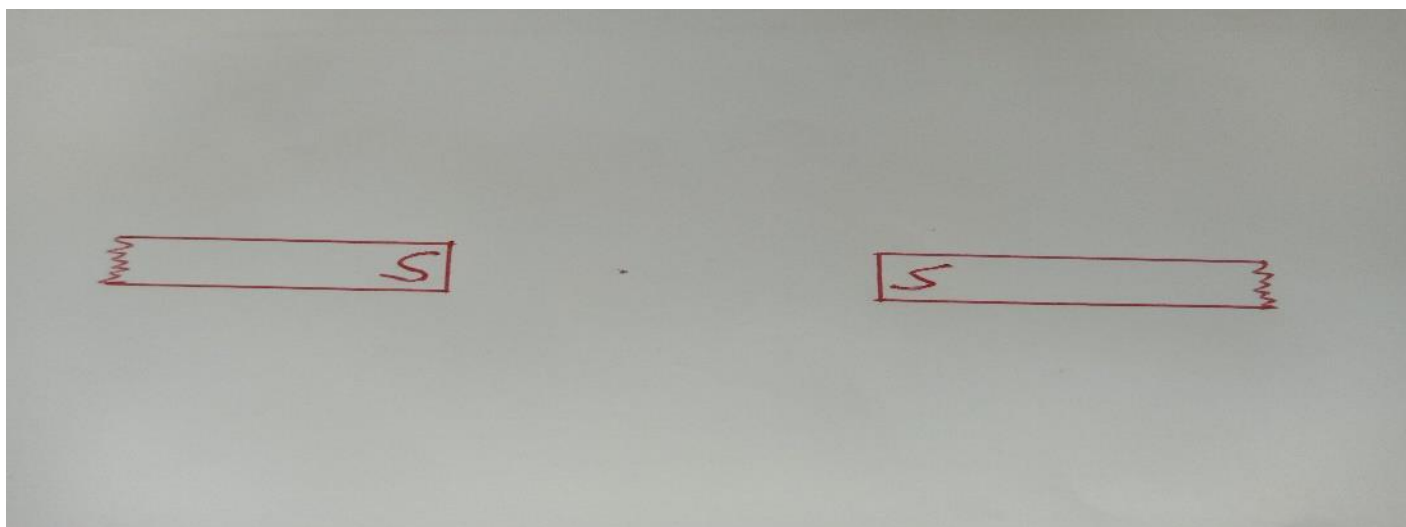
(iii). State any TWO disadvantages of this behavior. (2mks).

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9.The figure below shows poles of two bar magnets placed close to one another. Complete the diagrams to show the magnetic field patterns between the two magnets.(2mks).



10.State why convex mirrors are used for rear view mirror in vehicles.(1mk).

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SECTION B;40MKS

11.In an oil-drop experiment, an olive oil drop of diameter 0.7mm was carefully put on lycopodium powder which had been sprinkled on a calm water surface. The oil drop spread out into a roughly circular patch of diameter 73.5cm on the water surface.

(a). Describe how the oil drop spreads out to form an oil patch. (2mks).

(b). What is the role of the Lycopodium powder. (1mk).

(c). Calculate the volume of the oil drop in mm^3 . (3mks).

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(d). Determine the expression for the area of the oil patch in mm^3 . (2mks).

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(e). Determine the thickness of the olive oil molecule and express your answer in standard form. (3mks).

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(f). State TWO assumptions that you have made in this expt. (2mks).

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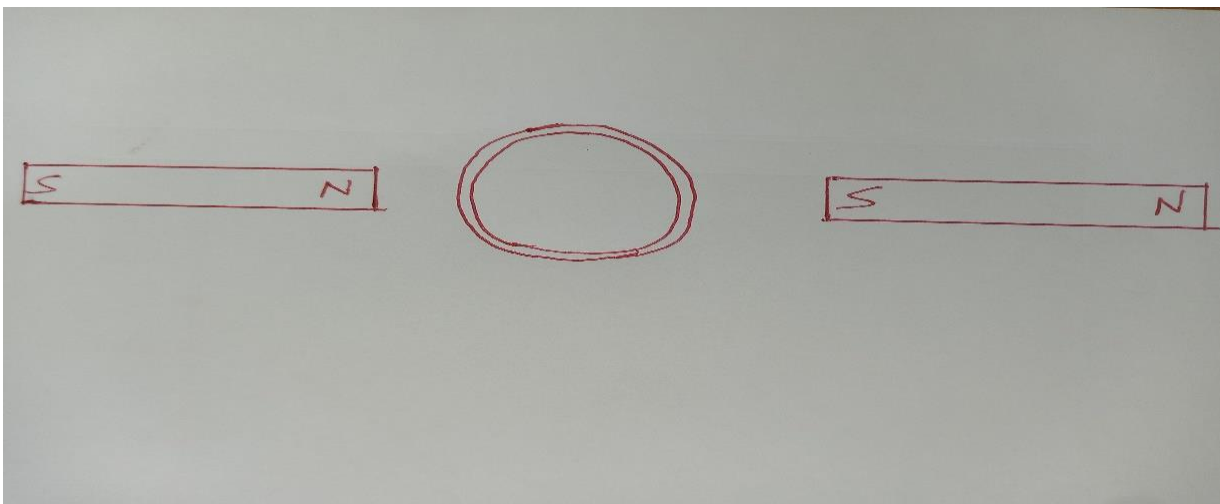
12(a). State TWO methods of magnetization. (2mks).

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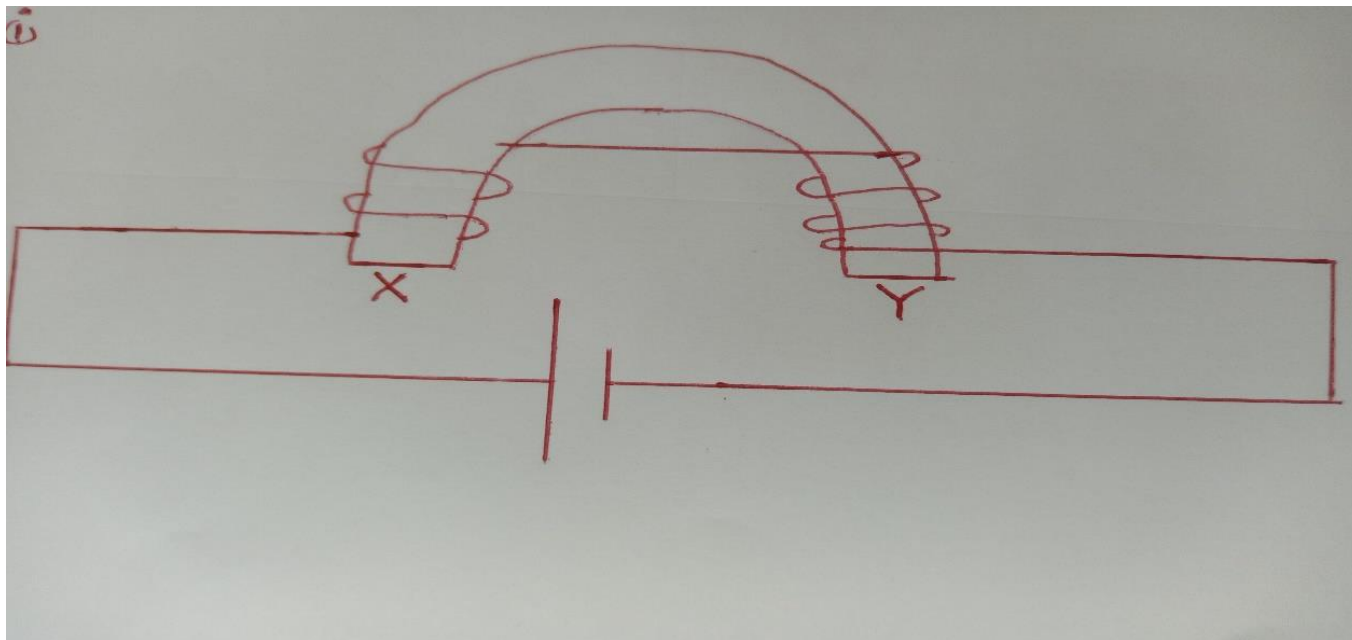
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(b). Complete the diagram below to show the magnetic field patterns. (2mks).



(c). (i). The figure below shows a U-shaped iron core. Indicate the polarity marked X and Y.



X-

Y-

(ii). State TWO applications of such an electro-magnet. (2mks).

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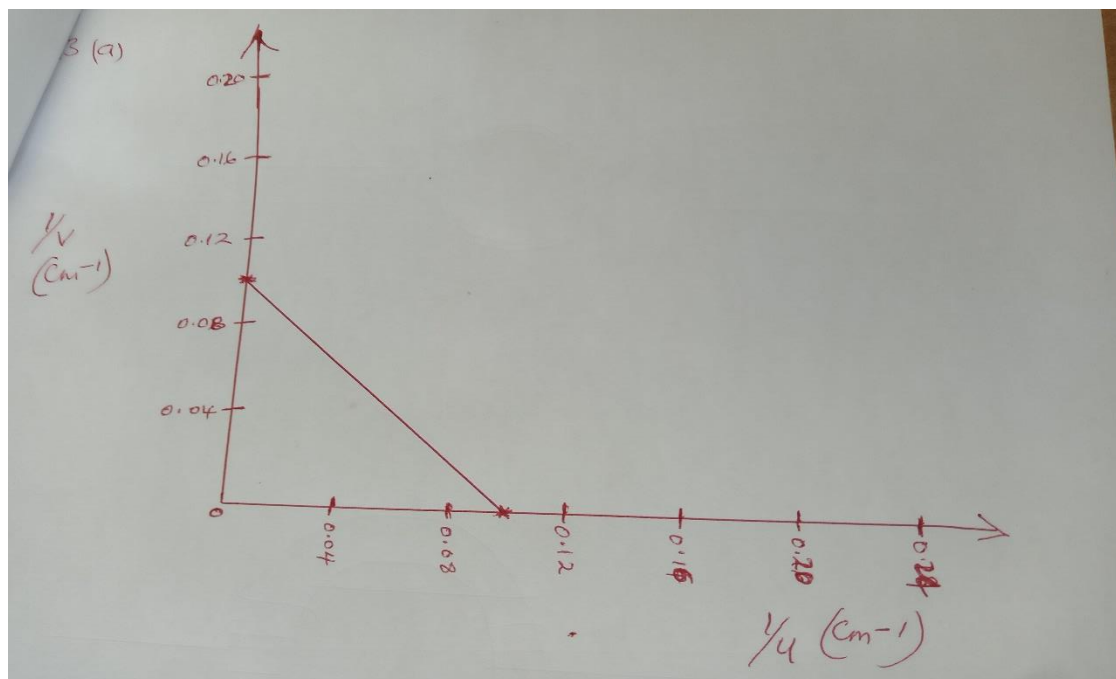
(iii). State two modifications that can be made to the set up above in order to demagnetize the iron core (2mks)

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13a) The figure below shows a graph of $1/V$ against $1/U$ for a concave mirror. Use the graph to determine the focal length of the mirror. (3mks)



b) Determine the image distance V when the magnification $m=2$ for the concave mirror above. (3mks)

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c.i) A small object is placed 15cm in front of a convex mirror of focal length 10cm. Determine the position of the image. (3mks)

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ii) Give TWO characteristics of the image formed in part c(i) above. (2mks)

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14. The table below shows the two major defects of the simple cell. Complete the table by stating the effects and remedies of these defects. (4mks)

DEFECT	EFFECT	REMEDY
Polarisation		
Local action		

15) Define the following terms;

a) Centre of gravity (C.O.G) (1mk)

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b)Stable equilibrium. (1mk)

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TERM 2 OPENER EXAMS

COMPUTER

FORM TWO

TIME: 2 HOURS

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

SIGN..... DATE;.....

Section A-Answer all questions in this section (40mks)

1.(a) What is a Word processor? (1 mark)

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(b) State 4 purposes of word processing. (2 marks)

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(c)State four editing and 4 formatting features of any good word processor. (8mks)

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2. (a) Distinguish between Copying and Moving text. (2 marks)

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3. A computer user may interact with a computer either through Graphical User Interface (GUI) or through typed commands.

(a) State two features of a graphical user interface. (2 marks)

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(b) Give two advantages of using GUI based operating system over a Command line interface. (2mark)

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(c) Some computer systems still use Command line interfaces. State two advantages of command line interface. (2 marks)

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4. Define an operating system (2mks)

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5. State two advantages of electronic spreadsheets over manual worksheets. (2mks)

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6a) Match the computer generation with the technology used to make the (4mks)

<u>Generation</u>	<u>Technology</u>
Third	Thermionic valves
First	Integrated circuits
Fourth	Transistor
Second	Large scale integration

c) i) List three types of secondary storage media (3mks)

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ii) State one advantage and one disadvantage of a laser printer (2mks)

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7.State two methods of minimizing dust in a computer laboratory. (2mks)

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8.Differentiate between primary memory and secondary memory (2mks)

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9.State what is meant by each of the following and give an example of where each is used

a) Magnetic Ink character Recognition (MICR) (2 mks)

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b) Optical Mark Read (OMR) (2mks)

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Section B-30(Mks)answer all questions in this section

10. a) What are computer viruses? (2mks)

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b) i) State two ways through which computer viruses may be controlled (2mks)

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ii) Explain how each of the two ways stated in b (i) above assist in controlling computer viruses. (2mks)

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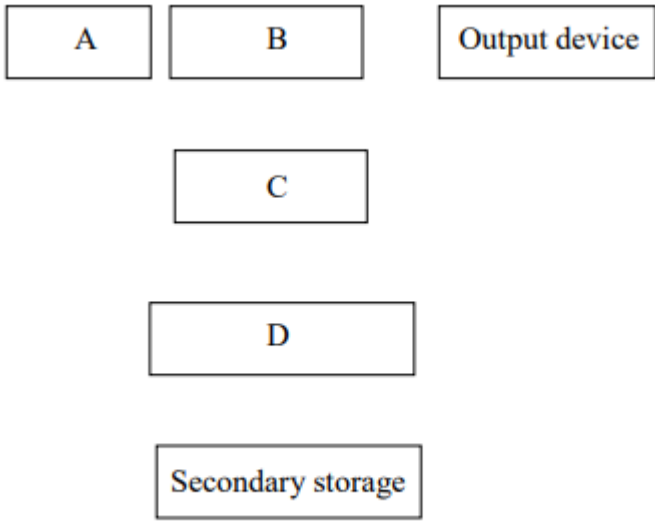
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11. a) The diagram below represents the essential features o a computer system .

Study the diagram and answer the questions that follow:



i) Name the components (4mks)

- A
- B
- C
- D

ii) On the diagram above, indicate the direction of data flow using arrows. (3mks)

b) Name the three types of buses in a computer system (3mks)

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c) Explain how CPU registers may be used to carry out a basic calculation

such as

$$2 + 7 = 9$$

(4mks)

d) Name two computers output devices. (2Mark)

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12. 18. a) i) What is a computer keyboard? (2mk)

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ii) List four types of keys found on a computer keyboard. Give an example of each(4mks)

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(iii)Distinguish between a line printer and a page printer (2mks)

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TERM 2 OPENER EXAMS

HOMESCIENCE

FORM TWO

TIME: 2 HOURS

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

SIGN..... DATE;.....

1. Why is nylon popularly used in the making of bristles for brooms and brushes(2mks)
2. State three factors to consider when buying a laundry brush(3mks)
3. Outline three points to consider when choosing basins and buckets(3mks)
4. Give three ways in which old newspapers can be useful in the house(3mks)
5. State the use of each of the following(3mks)
 - a) Water seal
 - b) U or S
 - c) Plug or clean eye
6. Give three factors to bear in mind when choosing personal clothes(3mks)
7. List down three methods of purifying water(3mks)
8. Mention three desirable qualities of a container used for storing drinking water(3mks)
9. Name three types of irons(3mks)
10. List three examples of permanent stitches(3mks)
11. Suggest two ways in which food can be contaminated by a cook(2mks)
12. Briefly describe 5 substances added to soaps and soapless detergent during their manufacture(10mks)
13. Give three reasons why soap should be used in laundering work(3mks)
14. State two advantages of using soft water for laundry(2mks)

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15. What is detergent?(1mk)

16. Give three characteristics of a good ironing surface(3mks)

17. You are preparing to go back to school after the holiday. Describe how you would (10mks)

- i. Clean fast coloured cotton handkerchief you will use
- ii. Clean your styling comb(5mks)
- iii. Clean terrazzo floors(5mks)

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