

FORM 2 ENDYEAR EXAMS

ALL SUBJECTS

SERIES 1

SUBJECTS COMPILED:

Maths, English, Kiswahili, Biology, Chemistry, Physics, History, CRE, Geography, Agriculture, Business Studies, Home Science and Computer Studies.

A Collection of well-organized standard updated End of Term Three Test Examinations for our Current Form 2 Students in all Schools in The Republic of Kenya.

Contact Mr Isaboke for marking schemes.

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MWALIMU AGENCY

FORM 2 ENDYEAR EXAMS

(SERIES 1)

BIOLOGY

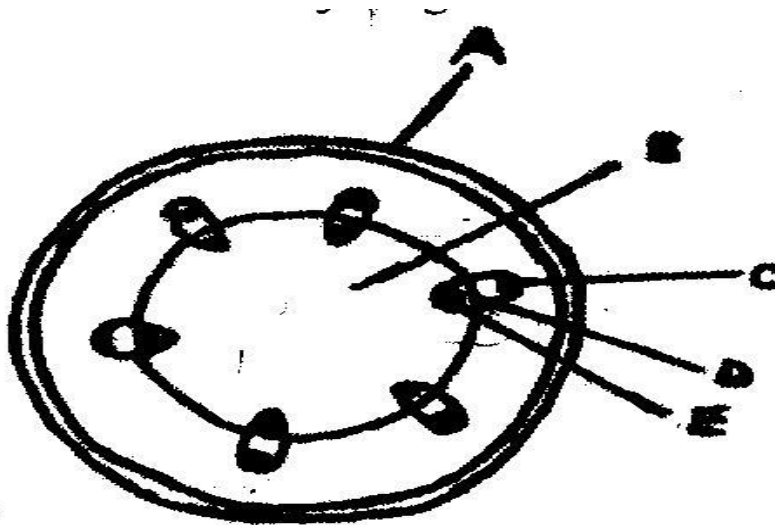
TIME: 2 HOURS

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

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

QUESTIONS

1. The diagram below represents a transverse Section of a young stem.



a) Name the parts labeled A and B (2mks)

b) State functions of the part labeled C, D, E. (3mks)

2. a) Why are people with blood group O universal donors. (2mks)

b) A person with blood group AB requires blood transfusion. Name blood groups of the donor. (2mks)

3. a) Name the type of circulatory system found in insects (1mk)

b) Name the blood vessel that transports blood from

i. Small intestine to the liver. (1mk)

ii. Lungs to the heart. (1mk)

c) In what form is oxygen transported from the lungs to the body tissues? (1mk)

4. Distinguish between natural and acquired immunity. (2mks)

5. State four functions of blood other than transport. **(4mk)**

6. Name the antigens that determine human blood groups. **(2mks)**

7. State structural differences between arteries and veins. **(6mks)**

(a) Give reasons for carrying out the following procedure when making temporary slides.

Making thin sections. **(1mk)**

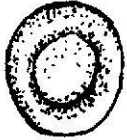
(b) Adding water to the sections. **(1mk)**

(c) Placing coverslip over the plant section. **(1mk)**

8. a) Distinguish between diffusion and osmosis.

(2mks)

b) The diagram below show a red blood cell that was subjected to certain treatment.



At start



At end

Account for the shape of the cell.

(2mks)

9. a) Name the material that strengthens xylem vessels.

(1mk)

b) Name the tissue that is removed when the bark of the dicotyledonous stem is ringed(1mk)

11. a) State what happens during light stage of photosynthesis.

(4mks)

b). What are the end products light stage.

(2mks)

12. State 2 factors affecting enzymatic activities.

(4mks)

13. How does the following affect the rate of diffusion:

(a) Diffusion gradient. **(2 mk)**

(b) Size of the molecules **(2 mk)**

(c) Thickness of the membrane. **(2 mk)**

(d) Temperature **(2mks)**

(e) Surface area to volume ration. **(2mks)**

14. Explain how the following factors determine the daily energy requirements

i. Age **(2mks)**

ii. Occupation **(2mks)**

iii. Sex

(2mks)

15. Name the appropriate food substances for each of the following enzymes.

i. Ptyalin.

(2mks)

ii. Pepsin.

(2mks)

b). State the two roles of mucus in the stomach.

(2mks)

16. a) State 3 adaption of xylem to its function.

(3mks)

b) Describe how 4 environment factors affect the rate of transportation.

(8mks)

17.a) State the difference between closed and open circulatory system.

(2mk)

b).State two ways in which the heart muscles are adapted to their functions.

(2mks)

18. State the role of the following organelles.

(6mks)

a. Golgi apparatus

b. Ribosomes

a. Golgi apparatus

c. Lysosomes

d. Mitochondrion

e. Chloroplasts

f. Centrioles

FORM 2 ENDYEAR EXAMS

(SERIES 1)

AGRICULTURE

TIME: 2 HOURS

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

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

(SECTION A 30 MARKS)

ANSWER ALL QUESTION IN THIS SECTION

1. List down any **two** branches of Agriculture. (1mk)

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2. Name the **three** primary macronutrients (1½mks)

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3. Name **four** common daily cattle breeds in Kenya (2mks)

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4. List **four** methods of fertilizer application (2mks)

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5. Name **four** tertiary operations during land preparations (2mks)

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6. Outline **three** causes of blossom end rot in tomatoes (3mks)

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7. Name **two** method of layering (2mks)

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8. Name **four** post harvesting practices infield crops (2mks)

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9. Name **two** methods used in pruning of coffee (1mk)

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10. List down **two** reasons for earthing up in carrots (2mks)

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11. Name **two** methods used in coffee pruning (2mks)

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12. What do you understand by the following terms as used in nursery practices (2mks)

a) Pricking out

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b) Hardening off

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13. Name **three** factors that determine the stage of harvesting in crops (1½mks)

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14. Outline **two** qualities of a good grain store (2mks)

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15. Why is use of manure discouraged when planting carrots (1mks)

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16. Highlight **two** qualities of plants used in preparation of green manure (2mks)

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17. Name **two** abiotic factors that influence Agriculture (1mks)

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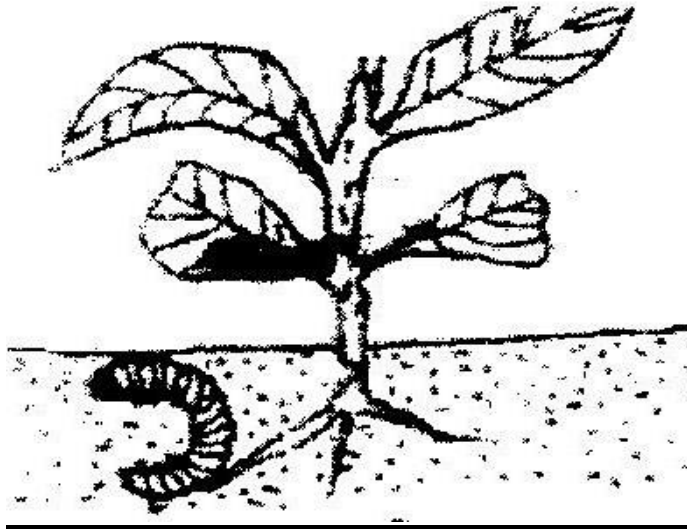
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(SECTION B 20 MARKS)

Answer All Questions In This Section

18. The diagram below shows a cabbage crop invested by a pest. Study it carefully then answer the questions that follow.



i) Identify the pest. **(1mk)**

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ii) What damage does the pest cause the crop? **(1mk)**

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iii) State **two** methods of controlling the pest **(2mks)**

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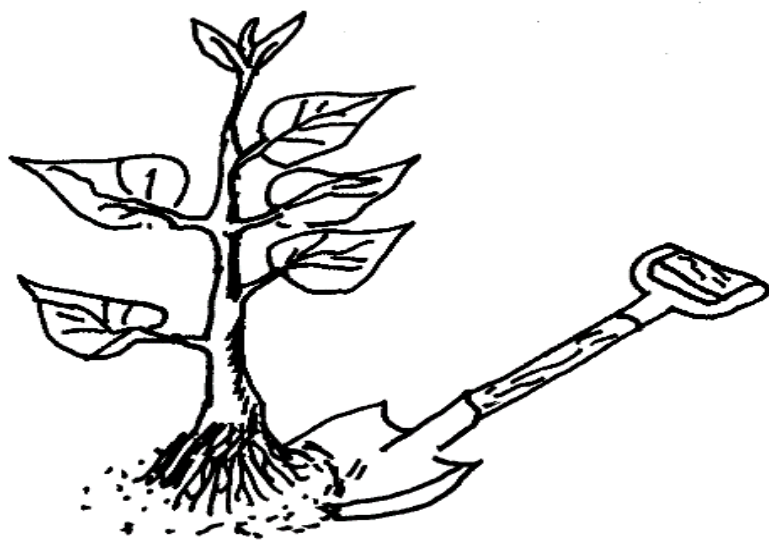
iv) Name any **two** diseases that attack cabbage in the field. **(2mks)**

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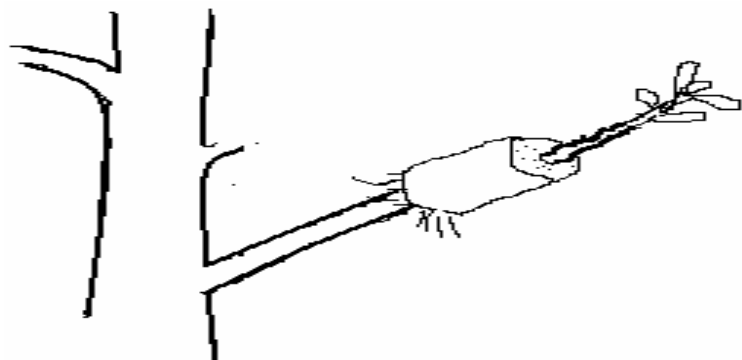
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19. The diagram below shows a practice carried out in the nursery. Study it carefully then answer the questions that follow.



- i) Identify the practice (1mk)
- ii) Name the garden tool shown used in carrying out the practice (1mk)
- iii) At what stage should the practice be carried out in vegetable seedlings? (3mks)
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- iv) Explain why the nursery should be watered thoroughly before carrying out the practice (1mk)

20. Below is an illustration carried out in vegetative crop propagation. Use it to answer the questions that follow.



- i) Identify the method crop propagation illustrated (1mk)
- ii) Under what circumstances is the method preferred to the other methods (1mk)
- iii) Name **three** other type of the illustration method that can be used in crop propagation. (3mks)
- iv) A famer was advised to apply 150kg CAN while top dressing his maize field. CAN contain 21% nitrogen. Calculate the amount of Nitrogen applied per/ha. (3mks)

(SECTION C 30 MARKS)

ANSWER ANY TWO QUESTIONS IN THIS SECTION

21. a) Discuss on the importance of organic mulching in crops (10mks)
- b) What are the advantages of using seeds as planting materials (5mks)
22. a) Describe **five** nursery management practices (10mks)
- b) Describe any **five** types of vegetables giving an example in each case (5mks)
23. a) Discuss on tomato production under the following sub headings
- i) Varieties (2mks)
- ii) Field management practices (8mks)
- b) Outline any **five** factors that determine spacing in crops during planting (5mks)

FORM 2 ENDYEAR EXAMS

(SERIES 1)

BUSINESS STUDIES

TIME: 2 HOURS

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

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

QUESTIONS

1. Outline four sources of capital for a sole-proprietorship type of Business (4mks)

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2. Classify the following trade as home trade or foreign trade. (4mks)

Trade	Classification
a) Import trade	
b) Retail trade	
c) Export trade	
d) Wholesale trade	

3. State four disciplines that are studied in Business studies. (4mks)

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4. List four ways in which government creates a viable working environment for business people. (4mks)

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5. Highlight four external factors that may negatively influence the operation of a business. (4mks)

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6. Outline four characteristics of secondary wants. (4mks)

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7. Highlight four benefits of proper filling to a business organization. (4mks)

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8. Highlight four factors that may lead to success of a business. (4mks)

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9. Outline four advantages of division of labour. (4mks)

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10. State four types of complaints that consumer organization may receive from consumers. (4mks)

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11. State four circumstances under which co-operative society may be dissolved. (4mks)

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12. List four forms of retail businesses that a school leaver may engage in. (4mks)

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13. Highlight any four personal attributes that a personal secretary should possess. (4mks)

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14. A business opportunity exist where there is a market gap. Outline four such market gaps. **(4mks)**

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15. In the spaces provided below, indicate the type of utility created by each of the following business activities. **(4mks)**

Commercial activity	Types Utility
a) Selling goods to customers	
b) Transporting goods.	
c) Store keeping	
d) Making chair	

16. Give four differences between goods and services. **(4mks)**

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17. State whether each of the following factors fall under micro-environment or macro-environment. **(4mks)**

- a) Competitive environment.
- b) Legal-political environment.
- c) Business structure
- d) Business culture.
- e)

18. Give four public utilities that the county government of Meru provides to its citizens. **(4mks)**

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19. List four contents of memorandum of association. (4mks)

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20. Outline four circumstances under which a trader would prefer to be paid in cash rather than other means of payments. (4mks)

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21. Outline four factors that should be considered before buying office equipment. (4mks)

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22. Reasons why a business should prepare a business plan. (4mks)

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23. For each of the following production activities indicate whether it is a direct or indirect type of Production. (4mks)

Activity	Types of production
An individual washing his own clothes	
An individual supplying beef.	
An individual operating a kiosk	
An individual producing maize for his family's consumption	

24. State four roles of the Nairobi Stock Exchange Market as a market for securities. (4mks)

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25. Outline any four principles of co-operatives (4mks)

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FORM 2 ENDYEAR EXAMS

(SERIES 1)

CHEMISTRY

TIME: 2 HOURS

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

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

1. Define the following terms:

(i) Atomic Number (1mk)

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(ii) Mass Number (1mk)

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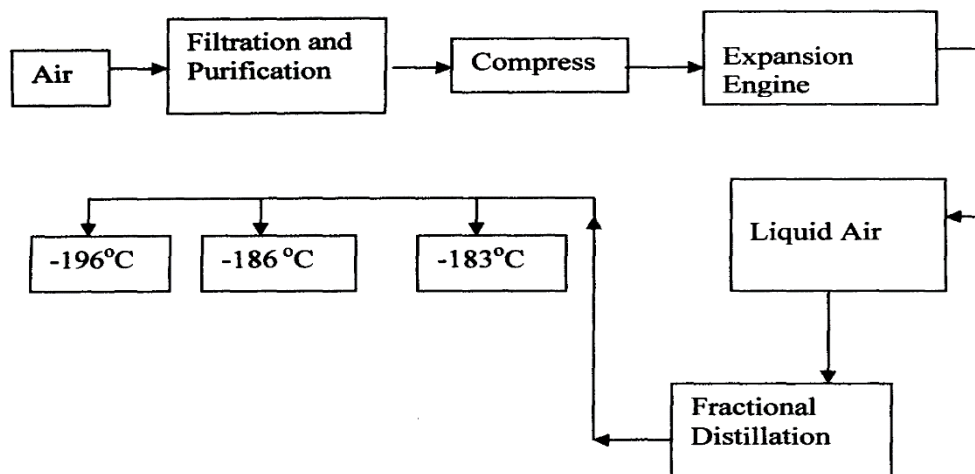
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(iii) The Isotopes (1mk)

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2. Oxygen is obtained on large scale by the fractional distillation of air as shown on the flow chart below.



a) Explain why air is considered as a mixture (1mk)

b) Identify the substance that is removed at the filtration stage (1mk)

c) Explain why Carbon (IV) oxide and water are removed before liquefaction of air. (1mk)

d) Identify the component that is collected at -186°C (1mk)

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

Substance		A	B	C	D	E	F
Melting Point ($^{\circ}\text{C}$)		801	113 OR 119	-39	5	-101	1356
Boiling point ($^{\circ}\text{C}$)		1410	445	457	54	-36	2860
Electrical Conductivity	Solid	Poor	Poor	Good	Poor	Poor	Poor
	liquid	Good	Poor	Good	Poor	Poor	Poor

Identify with reasons the substances that:

(i) Have a metallic structure (2mks)

(ii) Have a molecular structure (2mks)

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

4. Atoms of element X exists as ${}^{14}_6\text{X}$ and ${}^{12}_6\text{X}$

(a) What name is given to the two types of atoms. (1mk)

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(b) Use dot (·) and cross (x) diagrams to illustrate the atomic structure of ${}^{14}_6\text{X}$ (2mks)

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5. Give two reasons why most laboratory apparatus are made of glass. (2mk)

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6. Define the following terms:

I. A saturated solution. (1mk)

II. Crystallization. (1mk)

7. Describe how copper (II) sulphate crystals can be obtained from copper (II) sulphate solution. (3mks)

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8. Study the table below and use it to answer the questions that follows. Letters are not the actual symbols of the elements

Ion	Electronic configuration
L^-	2,8,8
M^{2+}	2,8
N^{3+}	2,8,8

(a) Which elements belong to the same period of the periodic table? (1 mark)

(b) What is the formula of the compound formed by L and N.? (1 mark)

(c) Compare the atomic and ionic radii of element L. (1 mark)

9. Write the chemical fomular of the following compounds. 3mks

(i) Sodium sulphate

(ii) Magnesium hydroxide

(iii) Calcium nitrate.

10. State the reasons why carbon (iv) oxide is used by ice cream venders instead of ordinary ice.

(2mks)

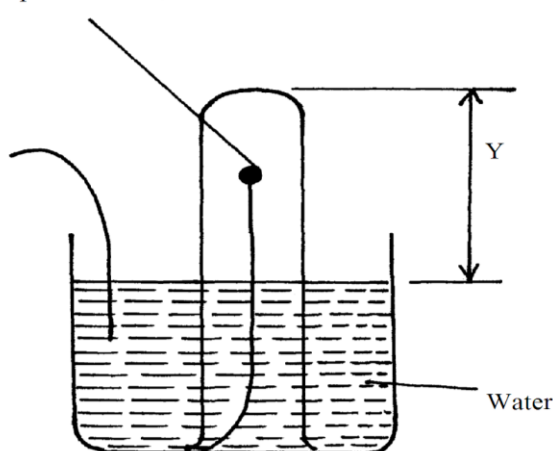
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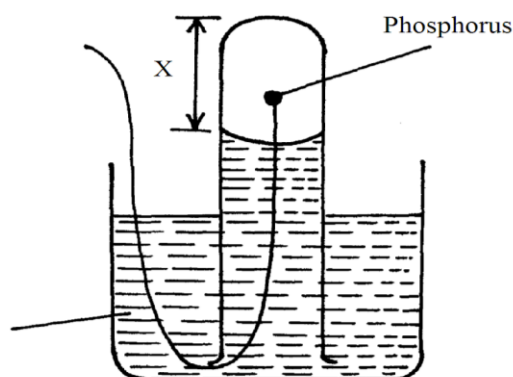
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11. A student set-up the apparatus below in order to determine the percentage by volume of oxygen in air.

Burning
phosphorus



AT BEGINING



AT END

a) Why did water rise when the reaction had stopped? (2mks)

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b) The student wrote the expression for the percentage by volume of oxygen in air as

$$\frac{y-x}{y} \times 100\%$$

Why was the volume of oxygen calculated using the above expression incorrect? (1mk)

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c) What should have been done after the reaction had stopped in order to get a correct volume. (1mk)

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12. Explain how you would obtain solid lead carbonate from a mixture of lead carbonate and sodium chloride. (3mks)

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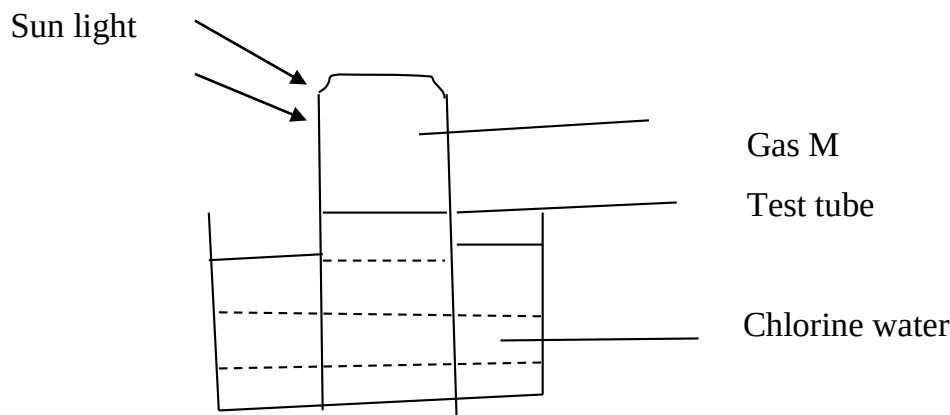
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13. Aluminium metal is a good conductor and is used for overhead cables. State any other two properties that make aluminium suitable for this use. (2mks)

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14. In an experiment, a test tube of chlorine gas was inverted in water as shown in the diagram. It was then left to stand in sunlight for one day.



At the end of experiment (after one day)

After one day, a gas M was found to have collected in the test tube as shown above.

(i). identify gas M. **(1mk)**

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(ii). Suggest whether the PH of the solution in the beaker would increase or decrease after one day.
Give an explanation. **(2mks)**

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(iii). The colour of chlorine water was observed to have changed from pale yellow to colorless after one day. Explain. **(2mks)**

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(iv) Write an equation to support your answer in (iii) above. **(1mk)**

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(v). State and explain the observation made when a moist blue litmus paper was placed at the mouth of the test tube containing chlorine gas. **(3mks)**

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(vi). Write an equation to show how the process in (v) above occurs. **(1mk)**

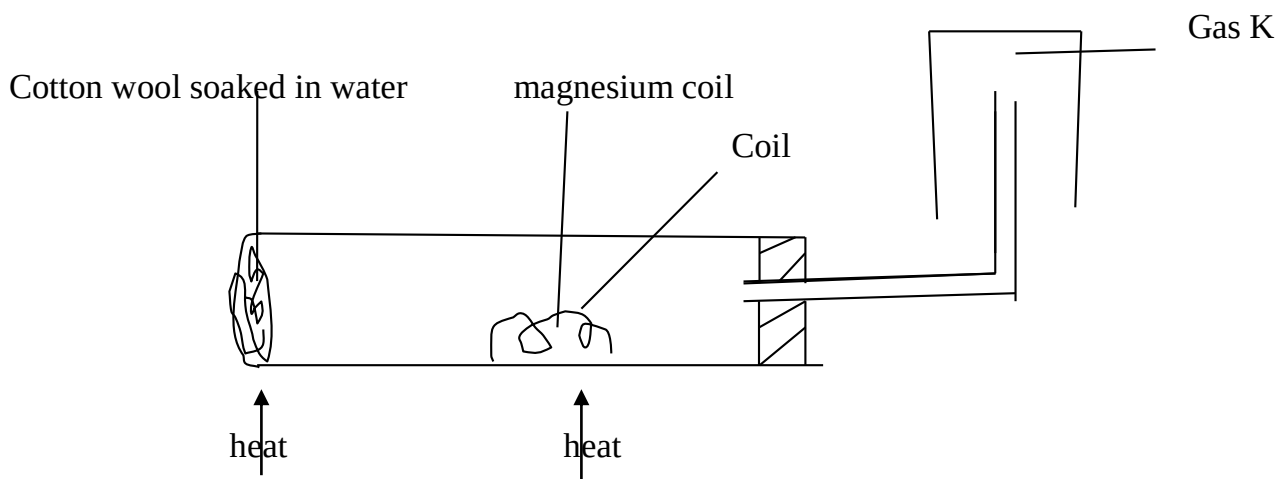
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(vii). Give two uses of chlorine gas. **(2mks)**

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15. A student set up the experiment below to collect gas K. the glass wool was heated before heating the magnesium coil.



- (a). Explain why it was necessary to heat the moist cotton wool before heating the magnesium.

(2mks)

- (b). Identify gas K.

(1mk)

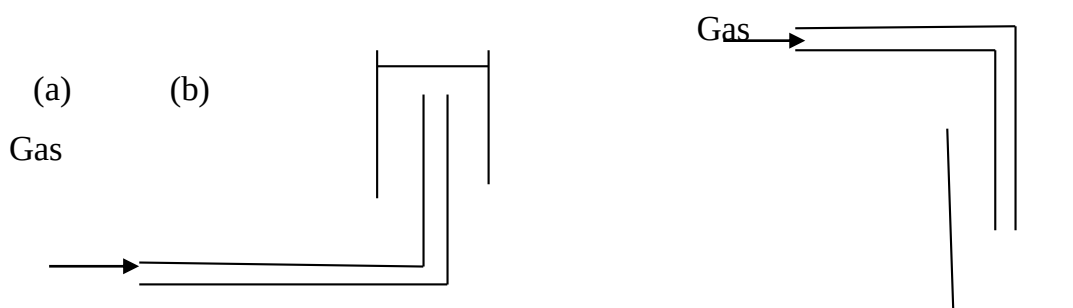
- (c). What property of gas K makes it possible to be collected by the method shown?

(1mk)

- (d). Write a chemical equation for the reaction that produced gas K.

(1mk)

16. The diagram represents two methods of gas collection in the laboratory.



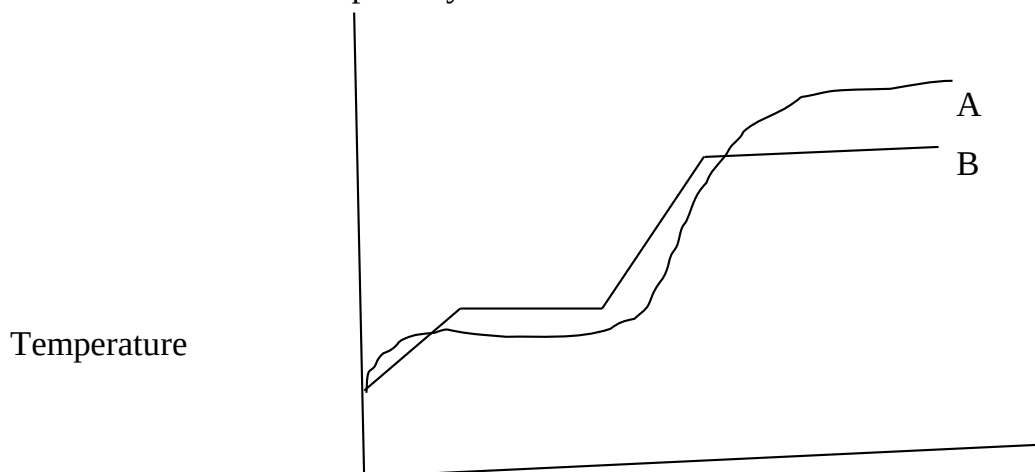
- (i). Name the methods of gas collection above.

(2mks)

- (ii). Which method is suitable for collecting dry carbon (IV) oxide gas? Give a reason.

(2mks)

17. The curves bellow represent the variation of temperature with time when pure and impure samples of a solid were heated separately.



(a). Which curve represents the variation in temperature for pure solid? Explain. (2mks)

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(b) State the effect of an impurity on the melting and boiling points of a pure substance. (2mks)

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18. Cars in Mombasa are found to rust faster than cars in Nairobi. Explain. (2 mks)

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(iii). State one disadvantage of rusting. (1mk)

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19. The PH of a soil sample in a given area was found to be 5.5. An Agricultural officer the addition of lime (calcium oxide). State the function of lime in the soil. (1mk)

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20. By use of dot (.) and cross (x) diagram show bounding in magnesium chloride (MgCl_2) (2mks)

FORM 2 ENDYEAR EXAMS

(SERIES 1)

COMPUTER STUDIES

TIME: 2 HOURS

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

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

1. Name **three** major components of a computer system. (3 marks)

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2. John saw the following symbols at the back of his system unit. What do the symbols represent?
(2 marks)



A



B

A

B

3. List down any **four** advantages of using computers as tools of problem solving. (2marks)

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4. Since the invention of the first generation of digital computers, much advancement has been realized in the sector of information and technology. Explain **two** characteristics which have been improved from the first generation to the modern computers. (4 marks)

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5. (a) Name two ways of classifying computer software. (2 marks)

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(b) Outline any two functions of operating system software. (2 marks)

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6. Give **two** ways of classifying operating systems. (2 Marks)

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7. a)What are toggle keys (1 mark)

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b) Give two examples of toggle keys. (1 mark)

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8. a) What is a computer virus? (1 Mark)

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b) Give **two** names of common computer viruses. (2 Marks)

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c) State **two** security measures which should be observed to safeguard data against computer viruses. (2 Marks)

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9. Name **two** special purpose memories found either found inside or outside the microprocessor hence explain what each of them does. (2marks)

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10. Describe **three** facilities or ways of ensuring proper ventilation in a computer laboratory. (3 Marks)

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11. Computers can store data using three ways namely electronically, magnetically and optically. Give **two** examples of storage devices in each method: (2 marks)

(i) Magnetically

(ii) Optically

12. (a) Define the term firmware. (1 mark)

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(b) Describe any **two** examples of utility programs. (2 marks)

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13. List down **two** uses of UPS in a computer laboratory. (2 marks)

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14. Describe the **two** methods of computer booting. (2 marks)

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15. a) Explain the use of any two buttons found in a Spell-check dialog box. (2 marks)

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b) Suggest the importance of the following features in the document preparation. (4 marks)

i)Thesaurus.....

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ii) Spellcheckers.

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(c) Using the text below, identify any five Word Processing formats that have been applied. State and define each feature briefly (5 marks)

icrosoft Office Word 2007 helps you
produce **professional – looking** documents by
providing a comprehensive set of tools for
creating and formatting your document in a new

interface. Rich review, *commenting*, and
comparison capabilities help you quickly fetch
H₂O and manage feedback from colleagues.

16. (a) Describe **five** features available in most word processing applications. (5 marks)

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(b) Explain the following terms as used in word processing: (3 marks)

(i) Word wrap

(ii) insert mode

(iii) type over mode

(c) What is a document password? (2 marks)

(d) Outline **five** formats that can be applied to a paragraph in a word processing document. (5Marks)

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e) State the function of the following keyboard short cut keys (3Marks)

- i. CTRL+S.....
- ii. CTRL+V.....
- iii. CTRL+X.....
- iv. CTRL+F.....

v. ALT+F4.....

vi. CTRL+H.....

17. a) i) Give one advantage of using GUI over command Line Interface. (1 mark)

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ii) Some computer systems still use command line interfaces. State TWO advantages of command line interface. (2 marks)

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b) i)List four devices that are needed in order to listen to music from a computer system.(2 marks)

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ii) What is LED in reference to softcopy output devices? (2 marks)

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c) i) Outline THREE precautions one should take when assembling a computer. (3 marks)

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ii) Give the THREE contents of a good warranty. (3 marks)

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d) Distinguish between serial and parallel communication ports of a computer. (2 marks)

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18. a) Mr. Matano is a teacher at Kamangu High School and wishes to use MS-Excel to process the marks obtained by his students during the term. The table below shows the details entered in the Ms-Excel worksheet.

	A	B	C	D	E	F	G	H	I
1		NAME	CAT-1	CAT-2	CAT-TOTAL	EXAM	TOTAL(%)	GRADE	RANK
2	1	SUSAN M.	14	6		56			
3	2	PETER K.	13	8		34			
4	3	MARY A.	10	4		59			
5	4	PAUL P.	11	7		57			
6	5	JANET F.	6	9		48			
7	6	JUSTIN G.	8	7		50			
8	CAT-1 IS OUT OF 20, CAT-2 IS OUT OF 15 AND EXAM IS OUT OF 65								
9									

i) Write a logical function that display PASSED when the total marks is greater than 70% marks otherwise display FAIL. **(3mks)**

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ii) Write a function that RANKs the students according to their total performance. **(5mks)**

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iii) Write a function that displays the GRADE, using the following grading system: **(5mks)**

80..100 - A

60..79 - B

40..59 - C

0..39 - E

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iv) The formula =COUNTIF (F2:F7,">=50") was entered at cell F9. Write down the value that was displayed. **(2mks)**

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v) Write down the formula that would be entered at cell C9 to sum the values in column C whose values are greater or equal to 10. **(3mks)**

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FORM 2 ENDYEAR EXAMS

(SERIES 1)

CHRISTIAN RELIGIOUS EDUCATION

TIME: 2 HOURS

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

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

1. (a) Name **eight** historical books in the Old Testament. (8mks)

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(b) Outline the reasons why the bible is referred to as a library. (5mks)

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(c) Give **five** occasions when Christians use the bible. (7mks)

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2. (a) State the effects of the translation of the Bible into African local languages. (6mks)

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b) Outline the first creation account. (6mks)

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c) Identify **four** differences between the Jewish and Traditional African practices of circumcision. (8mks)

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3. a) Describe the call of Moses(Exodus 3:1-22) (8mks)

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b) Explain **six** effects of idolatry in Israel during the time of Prophet Elijah. (6mks)

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c) State **six** ways in which Christians identify themselves in the society of idolatry. (6mks)

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4. a) State Isaiah’s prophesy concerning the Messiah. (8mks)

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b) Outline the events that took place on the night Jesus was born. (6mks)

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c) Outline **six** reasons why Christians undergo baptism. (6mks)

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5. a) Narrate the story of the raising of the widow's son at Nain(Luke 7:11-17) (8mks)

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b) Explain **seven** ways in which the Church continues with the healing ministry of Jesus Christ.
(7mks)

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c) Give **five** qualities of a true disciple as taught by Jesus. (5mks)

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FORM 2 ENDYEAR EXAMS

(SERIES 1)

ENGLISH

TIME: 2 HOURS

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

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

NAME: ADM NO: CLASS:

Answer all the questions in the spaces provided.

SECTION A: FUNCTIONAL WRITING (10 MKS)

Schools are almost closing. Your friend Genevieve lives in Kisii. She has invited you to visit and stay at their home for one week.

(a) Write a packing list that you would use when preparing for the visit.

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SECTION B: COMPREHENSION (20 MARKS)

Read the passage below and answer the questions that follow.

THE VILLAGE DEGREE

She was coming from the river when she noticed her primary school headteacher's bicycle leaning against the tree in front of her parent's house. Instinctively, she decided to stealthily go round the house and hide in the kitchen. She didn't want her teacher to see her in her torn and patched work dress. But the mention of Alliance Girls High School made her forget about her attire. She rushed into the house, water jerry can still on her back.

She became the heroine of the family, the village, the location and even the district. Her name appeared in the newspapers. She was the best in Kenya Certificate of Primary Education in the county and her name was on the lips of everybody. The whole family crowded around the teacher to read for them this great letter.

Even those who could not read wanted just to touch it. The letter spoke of hope and freedom from poverty and as many of the women seemed to think, free from dependence on men in their celebration. Many older women repeated in different versions their belief that with education you my daughter won't have to be a slave for a man. You will be your own master. Though Mwongeli did not understand much about what the older women meant, she was excited as they were over her apparently open path to freedom.

So Mwongeli had joined Alliance thrilled by the prospects of freedom. There she met the best brains in the country and they were all celebrating freedom from slavery. But to her surprise, the presence of visiting boys' school seemed to generate such excitement that she wondered from men.

As for Mwongeli, her mother had told her not to mix men and education. In obedience, she kept the two apart and sure enough, after four more years, yet another letter came to her and there was cause for women folk in her village to celebrate `again. The daughter had been admitted to study for a degree in Electrical engineering at the university of Nairobi, the only woman in the class of twenty. Yes, she was no longer Mwongeli she was already a village engineer. In fact, the name Mwongeli even in its form 'Ngeli' was lost. Now the focus was a degree. She was now Engineer Mwongeli'

Aren't you going to open the letter? Atieno asked, startling Mwongeli out of her reverie. 'It's not urgent' Mwongeli replied in a flat tone. 'I was just thinking how I can do this quietly you remember how the whole village hired a van to come and celebrate my masters scholarship offer? I'm usually glad to see them happy and excited but I find I have no privacy. I'd like to handle this one differently. I'll need to read the letter when I have had a rest and I'll tell you what I decide.

And with that Mwongeli put her letter in the handbag and sat down to enjoy a cup of tea and chat with her friend.

QUESTIONS:

(a) According the passage, why did Mwongeli want to hide in the kitchen? **(2 mks)**

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(b) Why did Mwongeli's name appear in the newspaper? **(2 mks)**

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(c) What had made Mwongeli's teachers visit her home? **(2 mks)**

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(d) Explain the irony in paragraph three of the passage? **(3 mks)**

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(e) Which letter is being referred to in paragraph three of the passage? **(1 mk)**

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(f) How many Engineering students were in Mwongeli's class? **(1 mk)**

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(g) According to the passage, what shows that children belong to the community? **(2 mks)**

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(h) What advice did Mwongeli's mother give her that enabled her to go through Alliance High school? **(2 mks)**

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(i) Apart from doing well in school, what else in the passage shows that Mwongeli was a hardworking girl? (2 mks)

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(j) Give the meaning of the following words as used in the passage. (3 mks)

(i) Stealthily –

(ii) Attire –

(iii) Reverie –

SECTION C: CLOZE TEST (10 MARKS)

Fill in the blank spaces with the most appropriate word

I used to enjoy reading horror stories until I realized (1) _____ much they affected me. I had to study late in the (2) _____ to prepare for my examination. I used to be alone (3) _____ the hall when everyone else was (4) _____. Very slight noise frightened me. I imagined that there was (5) _____ behind me while I was memorizing the Math's formulae. Every(6) _____ the curtains fluttered in the wind, my heart would skip a (7) _____. When my neighbours dog barked, I broke (8) _____ in goose bumps because dogs (9) _____ assumed to be able to see spirits that are invisible to the human (10) _____

SECTION D: ORAL SKILLS (15MARKS)

POETRY

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

INFANT SORROW

My mother groaned, my mother wept;
Into dangerous world I leapt;
Helpless, naked, piping loud,

Like a friend hid in a cloud.

Struggling in my father's head

Struggling against my

Swaddling-bands

Bound and weary I thought best

To suck upon my mother's breast.

QUESTIONS:

(i) Describe the rhyme scheme of the above poem. **(2 mks)**

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

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(iii) Which words would you stress in line five of the poem and why? **(2 mks)**

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(b) The principal of your school visits your class during a class meeting. As the class prefect, You are sited at the front of the class. You note that some students are not listening. State three observations that are evidence enough that they are not listening.(3 mks)

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(d) For each of the following words, write a word that is pronounced the same as: (4 mks)

- (i) Queue –
- (ii) Male –
- (iii) Him –
- (v) Rain –

SECTION E: GRAMMAR (15 MARKS)

(a) Rewrite each of the following sentences with the appropriate form of the word in brackets (4 mks)

- (i) The _____ between Makuyu and Kamenno had been the greatest challenge for the people (enemy).
- (ii) There has never been such an _____ in our school (occur).
- (iii) The chronic _____ will eventually lead to her poor performance (absent).
- (iv) Mr. Makori works in the vehicle _____ department (maintain).

(b) Fill in the blank spaces with the plural form of the nouns in the brackets.

(3 marks)

- (i) The three _____ were arrested by the police. (passer-by)
- (ii) How many _____ does the computer have? (word-processor)
- (iii) The _____ are very powerful in the armed forces (commander-in-chief)

(d) Arrange the adjectives given in the brackets in the right order and use them to fill in the blank spaces. (3 mks)

- (i) They found the _____ car parked outside the office (white, metallic, small)
- (ii) They talked to the _____ watchman. (Old, ugly, Congolese)
- (iii) I will buy her a _____ table (wooden, coffee, beautiful)

(e) Use the correct preposition to complete the sentences.

(3 mks)

(i) In accordance _____ the new constitution, men and women are equal partners in marriage.

(ii) We need to sit _____ the shade.

(iii) Do not sit _____ the glass table, it will break.

(f) Fill in each blank space with the correct collective noun.

(2 mks)

(i) The whole maize crop was destroyed by a _____ of locusts.

(ii) A _____ of pilgrims make a trip to Mecca each year so as to acquire the title 'Alhaji'

FORM 2 ENDYEAR EXAMS

(SERIES 1)

GEOGRAPHY

TIME: 1½ HOURS

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

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

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

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b. What is the relationship between Geography and the following disciplines:

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i. mathematics (2 mks)

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ii. chemistry (2 mks)

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2a.(i) what is the solar system? (2 mks)

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(ii) Name three components of the solar system.

(3mks)

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b. (i) Distinguish between revolution and rotation of the earth.

(2 mks)

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(ii). State four effects of the rotation of the earth.

(4mks)

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3a.(i). State four elements of weather.

(4 mks)

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(ii). Describe four reasons why weather forecasting is important.

(8mks)

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b. With the aid of a well labeled diagram explain the formation of relief rainfall. (9 mks)

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4. a. Describe the formation of mechanically formed sedimentary rocks. (6 mks)

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b. State four uses of rocks. (4mks)

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5a With the aid of a well labeled diagram, explain the formation of the rift valley by tensional forces. (10 mks)

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b. Explain three positive effect of folding on human activities. (6 mks)

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6 a. Distinguish between weather and climate. (2 mks)

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b. State three characteristics of modified equatorial climate in the coastal region. (4 mks)

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c. Explain four factors which influence climate. (8 mks)

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(i) Differentiate between desertification and aridity. (2mks)

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(ii) Explain three natural causes of aridity ad desertification. (6 mks)

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7a What is vegetation? **(2 mks)**

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b Name three types of vegetation. **(3 mks)**

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c. Explain how the following factors influence the distribution of vegetables. **(2mks)**

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(i). Aspect **(2 mks)**

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(ii). Precipitation. **(2mks)**

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(iii). Temperature. **(2mks)**

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FORM 2 ENDYEAR EXAMS

(SERIES 1)

HISTORY

TIME: 2 HOURS

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

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

ANSWER ALL QUESTION

1. Give the meaning of history. (1mk)

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2. Name the scientific theory that explains the origin of human being. (1mk)

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3. State five uses of fire by early man. (5mks)

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4. State four ways in which people in developing countries are affected by food shortage. (4mk)

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5. Name one method of irrigation used in development of early agriculture in Egypt. (1mks)

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6. a. Give five reasons for the migration of the Luo during the pre-colonial period. (5mks)

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b. Explain the effect of the Luo migration and settlement in western Kenya. (10mks)

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7. a. Name three early visitors to East African coast up to 1500 AD. (3mks)

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b. State four factors that enabled early visitors to come to East Africa Coast. (4mks)

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8. Explain five effects of Portuguese rule in the East Africa Coast. (10mks)

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9. Identify two methods of trade. (2mks)

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10. Give four methods used to acquire slaves in West Africa during the trans- Atlantic trade. (4mks)

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11. Give three disadvantages of motor vehicle. (3 mk)

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12. Explain five results of Trans- Atlantic trade in West Africa. (10mks)

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13. List three forms of print – Media. (3mks)

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14. Identify five uses of bronze in pre- colonial Africa. (5mk)

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15. Explain five factors that have promoted Industrialization in India. **(10mks)**

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16. Give two reasons why early urban centres in ancient Egypt developed in the Nile Valley **(2mks)**

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17. Give five factors that led to early urbanization. **(5mks)**

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18. Give five functions of Cairo. **(5mks)**

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19. Identify one reason that led to decline of Meroe **(1mk)**

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20. Identify one way of becoming a Kenyan citizen. **(1mk)**

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21. Give five factors that limit national unity. **(5mks)**

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FORM 2 ENDYEAR EXAMS

(SERIES 1)

HOME SCIENCE

TIME: 2 HOURS

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

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

INSTRUCTIONS

➤ Answer ALL the questions.

1. Name two conspicuous seams used to highlight style features. (2mks)

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2. Name two self-neatening seams. (2mks)

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3. State five characteristics of a well-made seam. (5mks)

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4. Outline four ways of neatening open seam. (4mks)

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5. Explain how you would make a French seam on the side seam of your shirt/blouse. (8mks)

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6. Name two forms of malnutrition. (2mks)

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7. Write down three functions of carbohydrates in the body. (3mks)

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8. Explain the difference between (4mks)

(a) Kwashiorkor and marasmus.

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(b) Rickets and osteomalacia.

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9. Patient has a large swelling on the neck.

(a) Identify the possible deficiency disease she could be suffering from. (1mk)

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(b) Give three signs and symptoms of the disease. (3mks)

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(c) Give two ways of managing the disease.

(2mks)

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10. Name three points to observe when taking body measurements.

(3mks)

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11. List four body measurements required when constructing a blouse.

(4mks)

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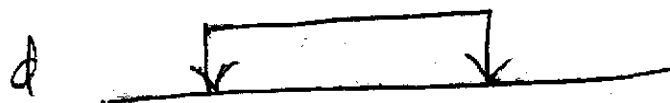
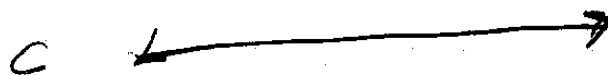
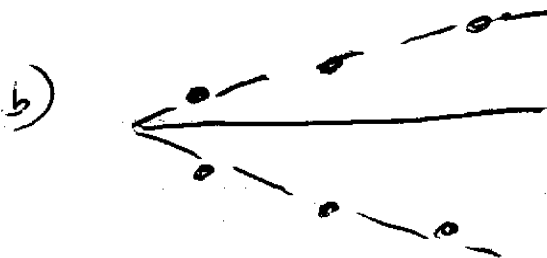
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12. Interpret the following pattern symbols.

(5mks)



13. Give two reasons for each of the following needlework procedures. **(6mks)**

(a) Pressing during garment constructions

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(b) Transferring pattern markings before removing pattern pieces.

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(c) Laying grain line following the warp.

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14. Define the following terms. **(3mks)**

(a) Consumer

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(b) Good

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(c) Services

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15. List three reasons for educating a consumer. **(3mks)**

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FORM 2 ENDYEAR EXAMS

(SERIES 1)

KISWAHILI

TIME: 2 HOURS

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

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

SEHEMU YA A: UFAHAMU

HAKI ZA WATOTO

Nchi nyingi duniani zimetia saina Mkataba wa Umoja wa Mataifa kuhusu haki za watoto. Haki za watoto ni mambo mema ambayo watoto wanastahili kupewa au kutendewa. Kwa kutia saina, nchi hizi zimetangaza kujitolea kwao kuzilinda na kuhakikisha kuwa hakuna ukiukaji wake, pia zitaona kuwa watoto wote katika himaya zao watanufaika kutokana na haki hizi.

Miongoni mwa haki hizi ni kuwa kila mtoto ana haki ya kuishi na kupata chakula cha kutosha na chenye lishe bora. Pili, kila mtoto ana haki ya kupata elimu. Elimu hii inafaa kutolewa bure na iwe inayofaa na inayopatikana kwa urahisi. Kisha, kila mtoto ana haki ya kutopigwa na kutodunishwa kwa namna yoyote, iwe kitabaka, kirangi, kijinsia au vinginevyo. Mtoto ana haki pia kutolazimishwa kufanya kazi za kitumwa, nzito na za kushurutishwa. Halikadhalika, ana haki ya kuishi katika nyumba au makaazi bora na salama, kutunzwa na kulindwa dhidi ya hali yoyote inayoweza kumhatarisha. Anatakiwa kushirikishwa katika kufanya maamuzi. Fauka ya haya, ana haki ya kupata huduma za afya, mahitaji maalumu, upendo na habari. Mwishowe anastahili kuheshimiwa kimawazo na kihisia. Haki hizi zinatakiwa kulindwa na kila mwanajamii, serikali na wazazi wakiwa mstari wa kwanza. Hii ndiyo sababu serikali za mataifa mengi zimeshirikisha haki hizi katika katiba za nchi zao na sheria zao. Yeyote anayezikiuka anapaswa kuadhibiwa kulingana na sheria.

Walakini, haki hizi bado zinakiukwa. Watoto wengi kote duniani bado wananyimwa haki zao. Lakusikitisha na kukera ni kuwa wanaotarajiwa kuwa vigogo vya kuzilinda haki hizi ndio wanaoongoza kuzikiuka. Kila siku tunasikia na kushuhudia visa vya watoto kupigwa, kunyimwa chakula, kufanyishwa kazi kipunda, kuteswa, kuishi katika mazingira hatari na hata kuuawa. Baadhi ya watesi hawa ni wazazi au jamaa wa karibu kama wajomba au wahudumu nyumbani.

Kuna watoto wengi wanaolala nje. Wengine hawapati chakula; licha ya kuwa wanatakiwa kupata chenye lishe bora. Kwao kutarajia mlo awamu tatu kwa siku ni njozi kwani hata awamu moja ni adimu kupata.

Watoto wengi katika mataifa yenye fujo na ghasia hutekwa na kutumikishwa vitani. Viongozi katika mataifa haya hawafanyi kitu ila kutazama tu wakati watoto wanaotakiwa kuwalinda wanageuzwa kuwa mibabe ya kuua na kuuana. Watoto hawa huvishwa magwanda ambayo miili yao minyonge haiwezi kuyahimili. Pia huvalishwa mabuti ya kijeshi ambayo ni mizigo mizito ya kubeba licha ya bunduki zinazokaribia kuwazidi uzani. Watoto hawa wanatakiwa kuwa wamelindwa majumbani na shuleni na wazazi wao na serikali. Mafunzo wanayohitaji si ya kijeshi!

Jukwaa la vijiji vya mataifa ya ulimwengu wa tatu limesheheni watoto wasioenda shuleni kwa sababu ya lindi la ufukara uliokithiri. Elimu ya bure inayogusiwa katika haki za watoto haipo. Wanaong'ang'ania iwepo ni kana kwamba ni waota ndoto mchana. Jiulize, watoto wangapi sasa hivi wamo majumbani bila kwenda shuleni kutokana na ukosefu wa karo? Wangapi wamo mitaani wakivuta na kunusa gundi huku wakiombaomba "vishilingi"?

Hali ilivyo sasa hivi inadai kuwa mimi na wewe tufanye hima na kuungana mikono na kutafuta suluhisho la kudumu kuhusu haki za watoto. Twapaswa kuhimiza serikali zetu kufanya kila ziwezavyo kuhakikisha kuwa watoto wote wako shuleni. Nasi tushirikiane kutoa huduma kwa watoto na kukomesha dhuluma, mateso na dhiki kwao. Haitoshi kupeleka miswada bungeni kuhusu haki za watoto na kuipitisha kuwa sheria. Twastahili kubadilisha misimamo yetu kuhusu haki hizi na kuzilinda kwa dhati bali si kwa chati.

JIBU MASWALI YOTE

1. Haki za watoto zina maana au umuhimu gani? (alama 2)

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2. Taja haki **tano** ambaza mtoto anatakiwa kuwa nazo kulingana na kifungu. (alama5)

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3. Eleza mifano **mitatu** kuonyesha jinsi haki za watoto zinavyokiukwa. (alama 3)

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4. Unadhani ukiukaji wa haki za watoto unaweza kuepukwaje? (alama 2)

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5. Eleza maana ya msamiati ufuatao kama ulivyotumika: (alama 3)

(a) Mkataba

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(b) Ukiukaji

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(c) Lindi la ufukara

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SEHEMU YA B: SARUFI NA MATUMIZI YA LUGHA

1. Taja aina mbili za sauti za Kiswahili. (alama 2)

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.....

2. Onyesha shadda katika maneno yafuatayo. (alama 2)

a) Cherehani

.....

b) Kitabu

.....

3. Ainisha viambishi katika neon lifuatalo. (alama 3)

Tutakayempelekea

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4. Kanusha sentensi zifuatazo. (alama 2)

a) Ningesoma ningepita.

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b) Ningalikuwa na uwezo ningalimsaidia.

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5. Andika sentensi ifuatayo kwa udogo kisha katika wingi. (alama 2)

Mtoto mkaidi aliiba kitabu cha mwenzake.

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6. Onyesha viwakilishi katika sentensi zifuatazo, (alama 2)

(a) Yule na huyo wamemaliza kazi yao.

(b) Chenyewe kimekaliwa na wageni wake.

7. Akifisha sentensi ifuatayo. (alama 3)

mama maria amenunua kabeji kitunguu mchicha sukumawiki na sufuria.

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8. Andika sentensi zifuatazo katika wakati ujao. (alama 2)

a) Mama ameninunulia kalamu.

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b) Wanafunzi wameenda nyumbani.

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9. Nomino hizi zipo katika ngeli gani? (alama 2)

a) Mwezi

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b) Maji

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10. Andika sentensi ifuatayo katika usemi wa taarifa.

(alama 2)

“Uhuru huu tunaojivunia ulipatikana kwa umwagikaji mwingi wa damu,” mwanasiasa alisema.

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11. Unda nomino kutokana na vitenzi vilivyo mabanoni ili kukamilisha sentensi zifuatazo.

(alama 2)

a) ilikuwa ya kuogofya mno. (ota)

b) Jengo hili lilijengwa na hodari. (jenga)

12. Tunga sentensi sahihi ili kutofautisha maana ya vitate vifuatavyo.

(alama 2)

Suka

.....

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Zuka

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13. Tumia kivumishi ‘-enyewe’ kukamilisha sentensi zifuatazo.

(alama 2)

a) Mimi nataka mikate

b) Manukato yananukia.

14. Bainisha maneno katika sentensi ifuatayo.

(alama3)

Yusufu na Ali wamekwenda wapi jamani?

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15. Neno ‘huyu’ limetumikaje katika sentensi hizi? (alama 2)

a) Huyu amekujakwangu.
.....

b) Mgeni huyu amekuja kwangu.
.....

16. Onyesha vivumishi katika sentensi zifuatazo. (alama 4)

a) Tunda kubwa limeanngukia mtoto mvivu.

b) Shule maarufu husajili wanafunzi wengi.

17. Taja aina tatu za nomino huku ukizitolea mifano.

(alama 3)
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18. Andika kwa wingi.

Upepo wa kusini ulipeperusha mabati ya paa la nyumba na kuharibu kifaamuhimu. (alama 2)
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.....

19. Tofautisha kati ya shadda na kiimbo. (alama 2)
.....
.....
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20. Tunga sentensi yenye mpangilio ufuatao. (alama 2)

Nomino + Kivumishi + Kitenzi + Kielezi + Kielezi
.....
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21. Taja na ueleze aina mbili za matamshi

(alama 4)

Toa mifano kwa kila aina.

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SEHEMU YA C: FASIHI SIMULIZI

1. (a) Taja aina zozote tano za nyimbo.

(alama 5)

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(b) Tofautisha kati ya fasihi simulizi na fasihi andishi

(alama 10)

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FORM 2 ENDYEAR EXAMS

(SERIES 1)

PHYSICS

TIME: 2 HOURS

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

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

1. State the laws of reflection. (2mks)

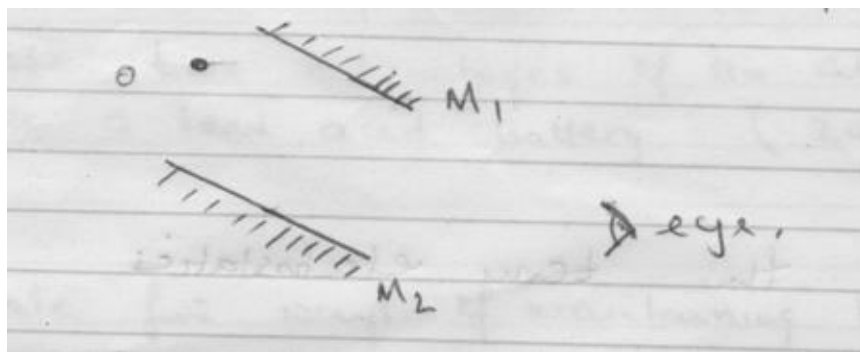
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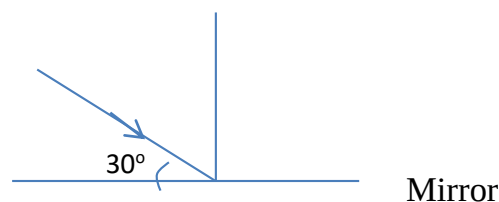
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2. The figure below shows an object O being viewed using two inclined mirrors M1 and M2. Complete the diagram by sketching rays to show the position of the image as seen by the eye. (3mks)



3. The figure below shows rays of light being reflected from a mirror. What is the angle of reflection. (2mks)



4. How many images would be seen from two mirrors when reflecting surfaces makes an angle of 60° with each other ? (2mks)

5. A pinhole camera of length 15cm formed an image 3cm high of a man standing 9m in front of the camera. What is the height of the man? (3mks)

6. Define the term linear **magnification** (1 mark)

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.....

7. (a) A concave spherical mirror has a focal length of 10 cm. Calculate the distance where an object must be placed in order to produce a real magnified image three times the size of the object and 30cm from the mirror. (2 marks)

- (b) An object is placed 20 cm in front of
- i) a plane mirror
 - ii) a concave mirror

State two differences between the images formed in each case. (2 marks)

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8. (a) Make a list of four devices in your house which are operated by electricity. (4mks)

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(b) Two dry cells, two bulbs and connecting wires are provided to you. Show by means of circuit diagrams how you will arrange the two cells to give a large current to flow. (2mks)

9. (a) What are the main sources of electricity. (2mks)

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(b) Define the following terms;

(i) Polarization (1mk)

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(ii) Local action (1mk)

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(c) What are the remedies of;

(i) Polarization (1mk)

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(ii) Local action (1mk)

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10. (i) State two advantages of an alkaline battery over a lead acid battery. (2mks)

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(ii) State three ways of maintaining lead acid accumulator. (3 mks)

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

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(b) Using Domains theory distinguish between a magnet and a magnetic substance. (3mks)

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12. State what is meant by;

(a) a magnetic field

(1mk)

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(b) a line of magnetic force

(1mk)

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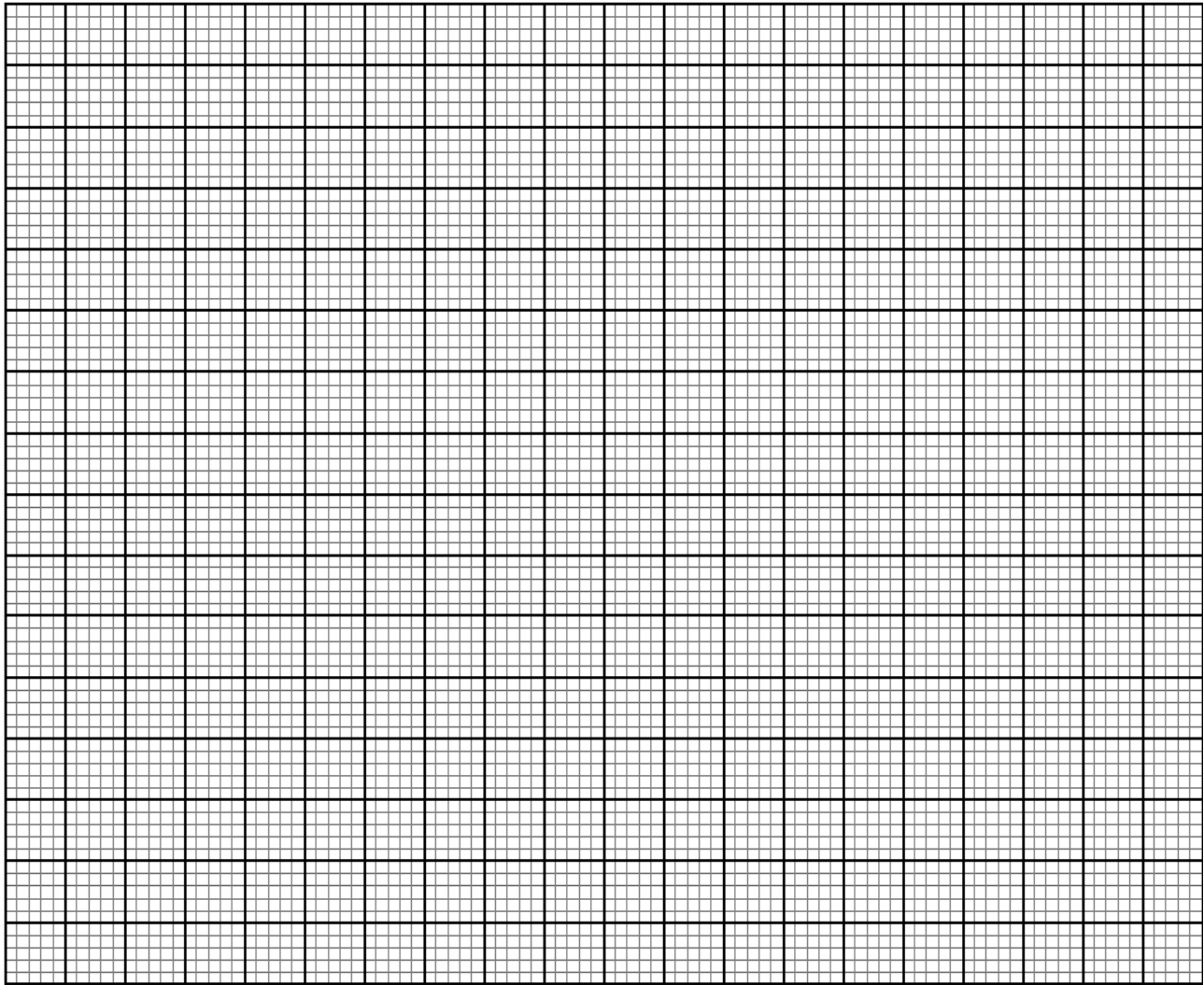
13. Sketch the arrangement of lines of force in the following case.

(2 mks)



14. (a) Show on a ray diagram the centre of curvature, axis, pole and principal focus for a concave spherical mirror. (2mks)

(b) A concave mirror has a radius of curvature of 20cm. Find the position, magnification and nature of the image of small pin placed on the axis and at right angles to it and 15cm from the pole by scale drawing (3mks)



15. List down three properties of an object whose volume can be measured using the displacement method (3 mks)

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16. The density of mercury is 13.6 g/cm^3 . Find the volume of 2720g of mercury in m^3 (2 mks)

17. The density of liquid X is 13600 kg.m^3 and that of water is 1000 kg/m^3 .

(i) What is relative density (1 mk)

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(ii) Determine the relative density of liquid X. (2mks)

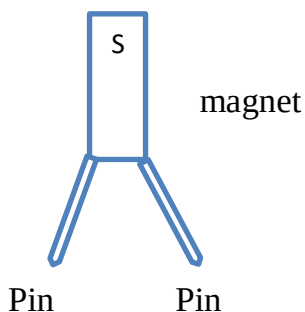
18. Mixture is made liquid A and water. Liquid A has a volume of $X \text{ cm}^3$ and water has a volume of 100 cm^3 . Liquid A has a density of 800 kg/m^3 and water has a density of 1000 kg/m^3 . If the mixture has a density of 960 kg/m^3 , calculate X of liquid A. (4 mks)

19. The mass of an empty density bottle is 25.5g. Its mass when filled with water is 45.2g. When filled with liquid L, its mass 55.2g. Calculate the density of liquid X.
(Density of water is 1000 kg/m^3) (4 mks)

20. In the diagram below two pins are attached to the end of a magnet as shown.

Explain the behaviour of the pins.

(2mks)



21. State one advantage and one disadvantage of using a convex mirror as a driving mirror.

(2mks)

22. Sketch rays to show the image formed by the object in the following ray diagram, C is the centre of curvature of the mirror.

(2mks)

23. a) Define pressure and state its S.I Units.

(2 marks)

b) State Pascal's principal. (1 mark)

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c) In construction of a mercury barometer care is taken to make sure it has no gas in the space above mercury.

i) How would you test whether there is gas above? (1 mark)

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ii) State the problem caused by the presence of gas in the barometer. (1 mark)

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d) Find the total pressure experienced by a diver 8 meters below the sea surface. Take;
Atmospheric pressure = $103\,360\text{N/m}^2$. Density of sea water 1030kg/m^3 (3 marks)

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24. (a) (i) Why must a liquid and not a gas be used as the 'fluid' in a hydraulic machine.

(1mk)

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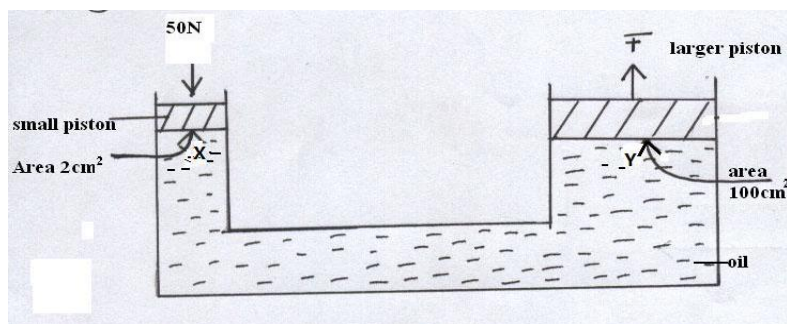
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(ii) State the other important property of a liquid to hydraulic machine depends on (1mark)

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(b)The diagram below shows the principle of the hydraulic car jack



- (i) If a force of 50N is applied to the smaller piston ;**calculate** the pressure produced in the oil at X
(2marks)

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- (ii) **Determine** the pressure exerted by oil at Y (1mark)

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- (iii) If the small piston moves down a distance of 5cm, **determine** how far upwards the larger piston moves. (2marks)

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FORM 2 ENDYEAR EXAMS

(SERIES 1)

MATHEMATICS

TIME: 2 HOURS

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

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

SECTION A (50MKS)

Instructions.

Answer all questions in this section in the spaces provided.

1. Use logarithms to evaluate.

(4mks)

$$\frac{\sqrt{415.2 \times 0.0761}}{135}$$

2. Three similar bars of length 200 cm , 300cm and 360 cm are cut into equal pieces. Find the largest possible area of square which can be made from any of the three pieces.

(3mks)

3. A triangle has vertices A(2,5), B(1, -2) and C(-5,1). Determine:

a) The equation of the line BC.

(3mks)

b) The equation of the perpendicular line from A to BC.

(3mks)

4. The ratio of the radii of two spheres is 2:3. Calculate the volume of the first sphere if the volume of the second is 20cm^3 .

(3mks)

5. Without using a mathematical table or calculator solve the following.

(3mks)

$$3\sqrt{0.729 \times 409.6} \quad \underline{\hspace{2cm}}$$

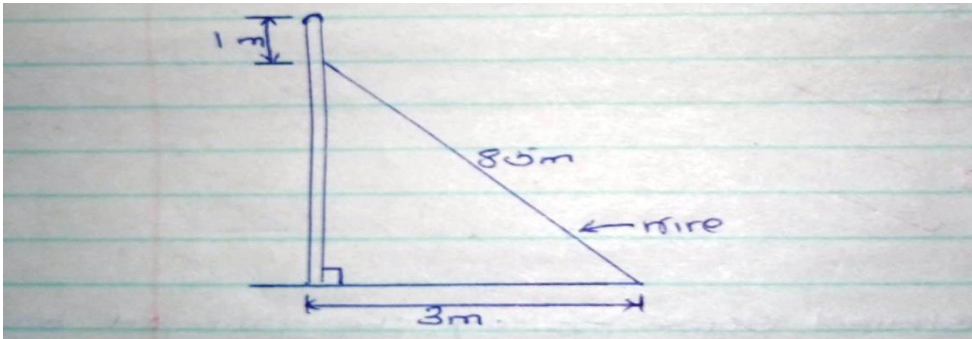
0.1728

6. Three boys shared some money, the youngest boy got $\frac{1}{2}$ of it and the next got $\frac{1}{9}$, and the eldest got the remainder. What fraction of money did the eldest receive? If the eldest got sh 330, what was the original sum of money?

(4mks)

7. Ten men working 6 hours a day take 12 days to complete a job. How long will it take 8 men working 12 hours a day to complete the same job? **(3mks)**

8. An electric pole is supported to stand vertically by a tight wire as shown below. Find the height of the pole and leave to 2 decimal places. **(3mks)**



9. From a window 25m above a street, the angle of elevation of the top of a wall on the opposite side is 15° . If the angle of depression of the base of the wall from the window is 35° find:
- a) The width of the street. **(2mks)**

- b) The height of the wall on the opposite side. **(2mks)**

10. Simplify: (2mks)

$$25^{3/2} \times 9^{1/2} \times 2^2 \text{ _____}$$

$$5^2 \times 3^2$$

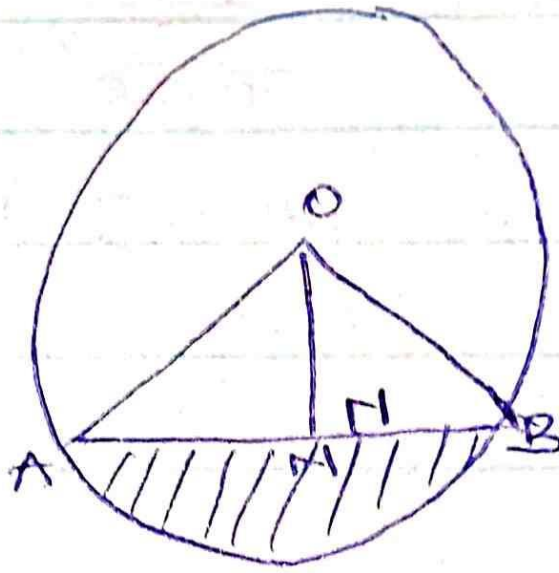
11. Solve the inequality: (3mks)

$$2x - 1 \leq 3x + 4 < 7 - x$$

12. Solve the following: (3mks)

$$x^2 + 3x - 54 = 0$$

13. The figure below shows a circle with centre O and radius 5cm. if ON= 3cm, AB = 8cm and $\angle AOB = 106.3^\circ$. Find the area of shaded region. (3mks)



14. Expand and simplify:

(2mks)

$$4(q + 6) + 7(q - 3)$$

15. The length of a rectangle is three times its breadth. If its perimeter is 24cm what is the length of the rectangle.

(2mks)

b) Area of rectangle.

(2mk)

SECTION B

Answer any two questions.

16. A rectangular tank whose internal dimensions are 1.7m by 1.4m by 2.2m is filled with milk.

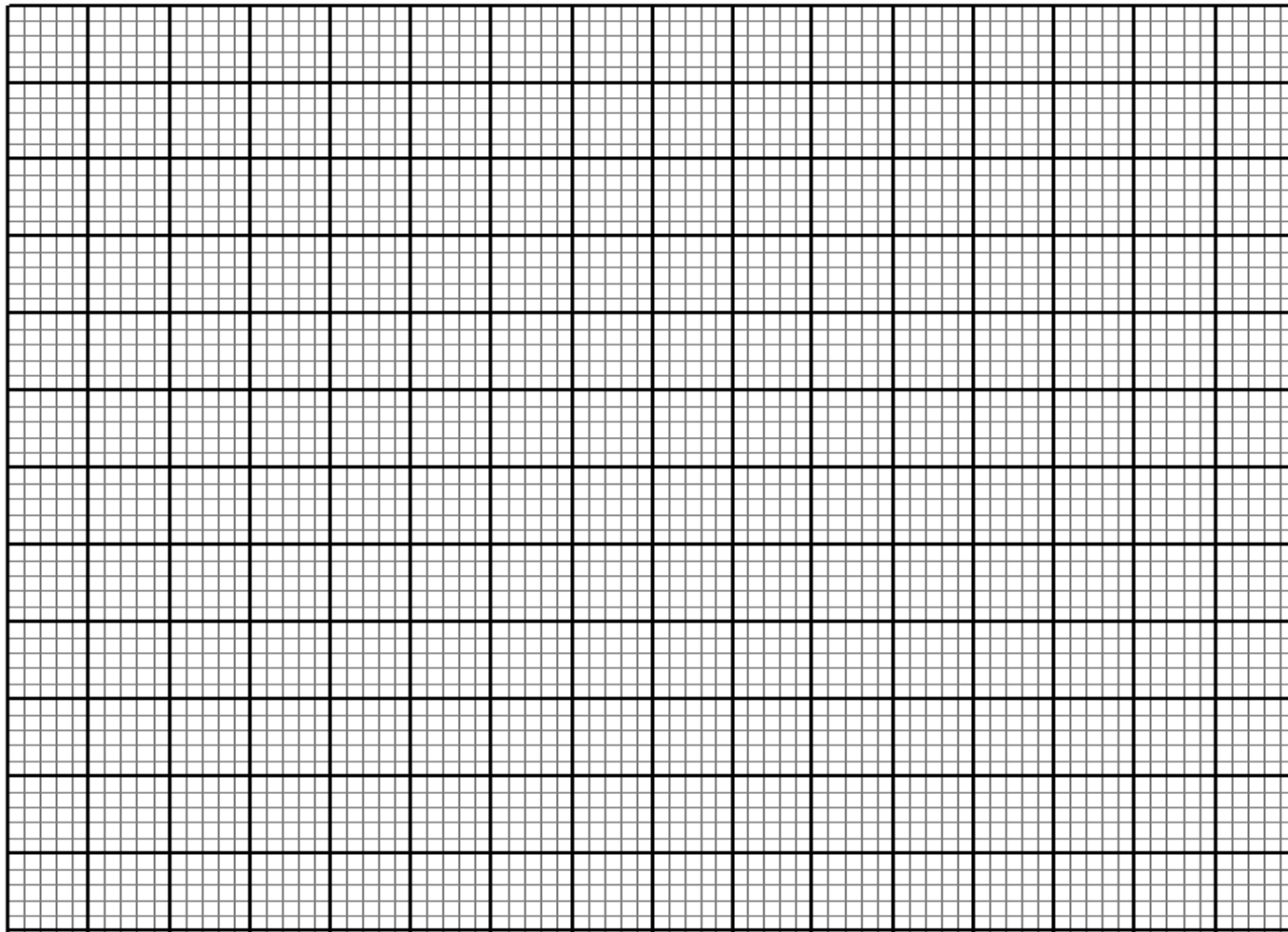
a) Calculate the volume of milk in the tank in cubic metres. **(2mks)**

b) The milk is to be packed in small packets. Each packet is in the shape of a right pyramid on an equilateral triangular base of side 16cm. The height of each packet is 13.6cm. Calculate the volume of milk contained in each packet. **(3mks)**

ii. If each packet was to be sold at sh 25 per packet, what is the sale realized from the sale of all exact packets of milk. **(5mks)**

17. A triangle ABC with vertices A(-2,2), B (1, 4) and C(-1, 4) is mapped on to triangle A'B'C' by a reflection in the line $y=x+1$.

a. On the grid provided draw:



- i. Triangle ABC (1mk)
 - ii. The line $y=x+1$ (2mks)
 - iii. Triangle A'B'C' (3mks)
- b. Triangle A''B''C'' is the image of triangle A'B'C' under a negative quarter turn, with the centre of rotation as origin (0, 0). On the same grid draw triangle A''B''C'' (4mks)

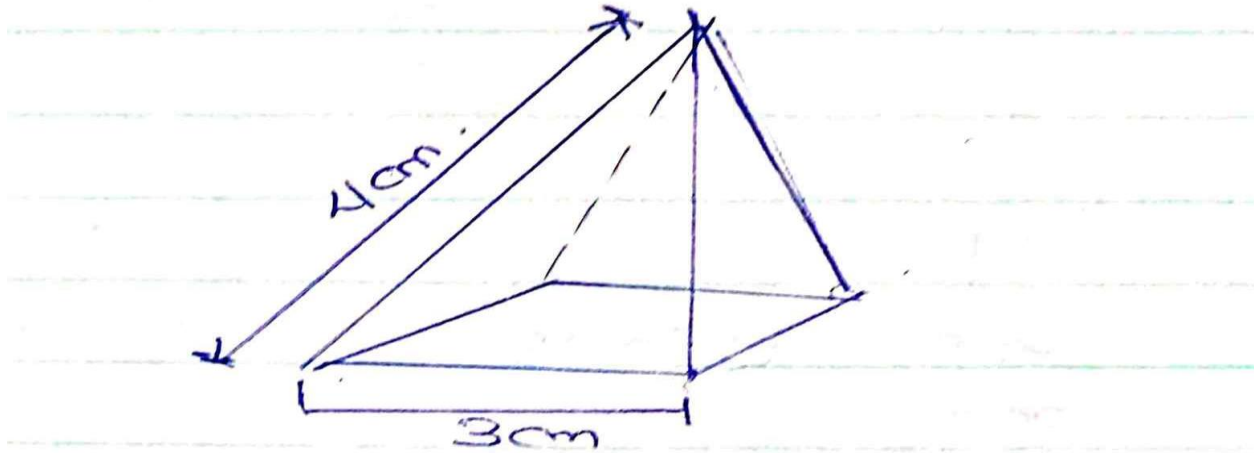
18. The following measurements were obtained while measuring a coffee field. The measurements were entered in a field book as follows:

Y			
360	80 to Q		
280			
To R 80	200		
To S 160	80	200 to P	
X			

- a) Taking the baseline $XY = 400$ m. draw the map of the coffee field using a scale of 1cm represents 40m.

- b) Calculate the area of the coffee field. (5mks)

19. The figure below represents a right pyramid. On a square base of side 3cm. the slant edge of the pyramid is 4cm.



- a) Draw the net of the pyramid. (2mks)

- b) Calculate the surface area of the pyramid. (4mks)

Calculate the volume of the pyramid to 2 decimal places. (4mks)

THE END

- ✓ **FOR SIMILAR ENDTERM EXAMINATIONS**
- ✓ **KCSE MOCKS**
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