

BRILLIANT STUDENTS FORM 2 END TERM 1

SERIES 2 EXAMS (ALL SUBJECTS TESTED)



BRILLIANT STUDENTS FORM 2 END TERM 1 SERIES 2 EXAMS

Prefer Calling Sir Obiero Amos

@ 0706 851 439

for Marking Schemes

N/B In Response to the Huge Costs Associated in Coming Up with Such/Similar Resources **Regularly**, We inform us All, **MARKING SCHEMES ARE NOT FREE OF CHARGE**. However Similar **QUESTIONS**, Inform of **soft Copies**, are Absolutely **FREE** to **Anybody/Everybody**. Hence **NOT FOR SALE**

by **Amobi Group of Examiners**.

ACTED SET BOOKS VIDEOS.

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0706 851 439



NAME:

SCHOOL:

ADM NO: SIGN: DATE:

BRILLIANT STUDENTS
FORM 2 END TERM 1 SERIES 2 EXAMS

AGRICULTURE

SECTION A (80Mks)

ANSWER ALL THE QUESTIONS IN THIS SECTION IN THE SPACES PROVIDED:

1. Name two ways in which agriculture contributes directly to development of industries. 2mks

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2) List four ways in which HIV/AIDS affect food supply. 2mks

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3)State four disadvantages of pastoral-nomadism system of farming. 2mks

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4) State four advantages of organic farming. 2mks

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5) Differentiate between pomoculture and Olericulture. 2mks

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6) State four factors that determine the choice of a farming method. 2mks

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7)State any four human factors that influence agriculture. 2mks

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8)State four harmful effects of pests to crops. 2mks

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9)State three farming practices that can improve soil structure. 3mks

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10)State any four categories of farm tools and equipment's. 2mks

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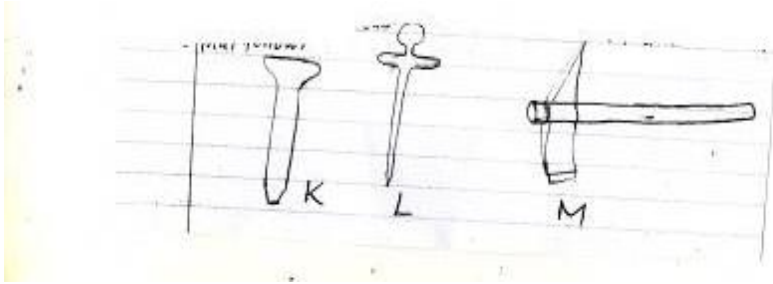
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11) Study the illustrations below and answer the questions that follow.



i) Identify the tool labeled: 1 ½ mks

K

L

M

ii) State two uses of tools M. 2mks

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iii) State two maintenance practices carried out on tools K and L. 2mks

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12) Name the tools that can be used for following in the farm.

i)Checking the specific gravity of milk. ½ mk

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ii)Digging holes to fix posts during fencing. ½ mk

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13)Give two possible and appropriate hand tools needed to finish off the handle of a fork jembe. 1mk

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14)Name any two combinations of tools that must always be used together when carrying out operation in animal production. 1mk

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15)List four conditions that necessitate land clearing. 2mks

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16) Give four benefits of ridging in Irish potato production. 2mks

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17) Name two types of tithes likely to be achieved during harrowing. 2mks

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18) Define the term seedbed. 1mk

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19) Name four water storage structures in the farm. 2mks

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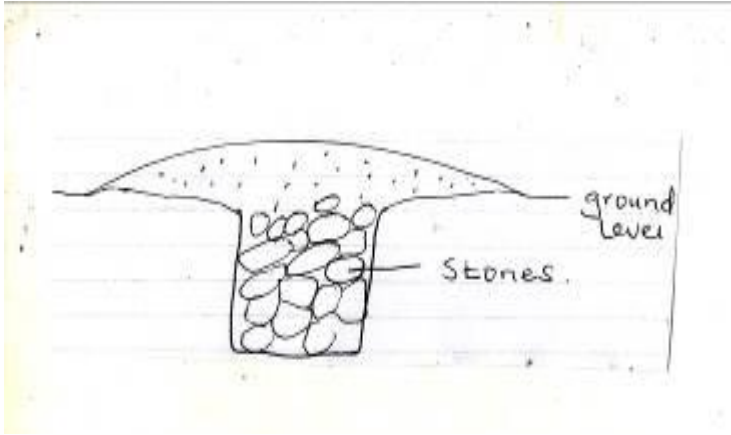
20) Name three types of pipes used in conveyance of water in the farm. 1 ½ mks

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21)Below is a diagram showing a method of drainage . Use it to answer the questions that follow.



a)Identify the above method of drainage. 1mk

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b)State one advantage of the above method of drainage. 1mk

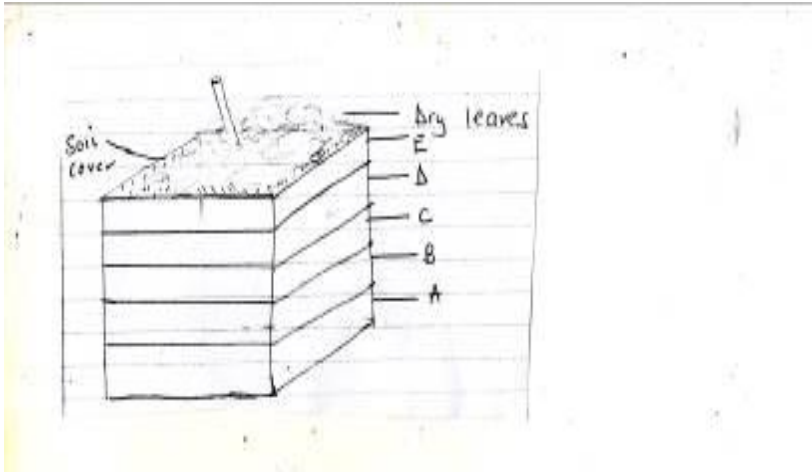
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c)Outline four importance of drainage as a method of land reclamation. 4mks

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22) The following is an illustration of a compost heap.



i) Define compost manure. 1mk

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ii) Label parts A-D. 2mks

A

B

C

D

iii) What is the use of each of the parts labeled A, C and D. 1 ½ Mks

A

C

D



iii) Give three reasons why compost manure not commonly used in the farms 1 ½ mks

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23) State four characteristics that should be met by plants to be used for green manure making. 4mks.

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24) Complete the table that follow. 4mks

	4 Young castrated male cattle
Pullet	
Piglet	
	4 Mature male sheep

25) Name two dual purpose breeds of sheep. 2mks

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26)State three reasons why goats are popular in most parts of Kenya. 3mks

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27)State two major physical difference between Bactrian and dromedary breeds of camel. 2mks

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28)(a)Define the term farm records. 1mk

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b)State four qualities of a good farm record. 2mks

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29(a)Differentiate between macro-nutrients and micro-nutrients. 1mk

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b)State four deficiency symptoms of nitrogen. 2mks

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30)Calculate the amount of K_2O contained in 400Kg of a compound fertilizer 25: 10: 5. 2mks

31)Name the vegetative part used for the propagation of the following crops: 2mks

Sweet potatoes

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Bananas

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Cassava

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Sisal

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32)State two categories of crop propagation. 2mks

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SECTION B (20Mks)

Answer any two questions from this section:

33a) Explain six characteristics of nitrogenous fertilizers. 6mks

b) State four types of information that should be contained on the sample package before it is taken to the laboratory for sampling. 4mks

34a) State six advantages of using seeds as planting materials. 6mks

b) State four factors that should be considered when selecting planting materials. 4mks

35a) Outline five disadvantages of broadcasting as a method of planting. 5mks

b) State five importance of carrying out soil testing. 5mks

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BRILLIANT STUDENTS
FORM 2 END TERM 1 SERIES 2 EXAMS

TIME 2HRS

INSTRUCTIONS

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

SECTION A (40 MARKS)

1. What is meant by the term binomial nomenclature? (1 mark)

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2. Define the term species. (1 mark)

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3. State the function of each of the following parts in a microscope.

i. The eyepiece lens. (1 mark)

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ii. The objective lens. (1 mark)

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4. a) Give the formula of working out the magnification of a microscope. (1mark)

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b) Calculate the magnification that is obtained when a specimen is viewed with $\times 10$ eyepiece and $\times 100$ objective. (1 mark).

c). A student observed a row of 16 epidermal cells in a microscope field that was 8mm in diameter. Calculate the average length of each cell on micrometers (μm). Note: 1mm=1000 (μm).

5. Explain why the image of an object seen under an electron microscope is captured on a fluorescent screen.

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6. Name two structures found within the nucleus of a cell. (2 marks)

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7. State the functions of the following organelles.

a. Lysosomes. (1 mark)

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b. Golgi apparatus. (1 mark)

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c. Mitochondria. (1 mark)

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d. Food vacuole. (1 mark)

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e. Rough endoplasmic reticulum. (1 mark)

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8. Name the cell organelles responsible for the following:

a. Synthesis of proteins. (1 mark)

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b. Photosynthesis. (1 mark)

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9. Define each of the following terms:

a. A cell. (1 mark)

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b. A tissue. (1 mark)

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c. An organ. (1 mark)

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10. Name the tissues that carry out the following functions in plants:

(i) Manufacture of food. (1 mark)

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(ii) Protecting the inner delicate tissues. (1 mark)

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(iii) Making new tissues. (1 mark)

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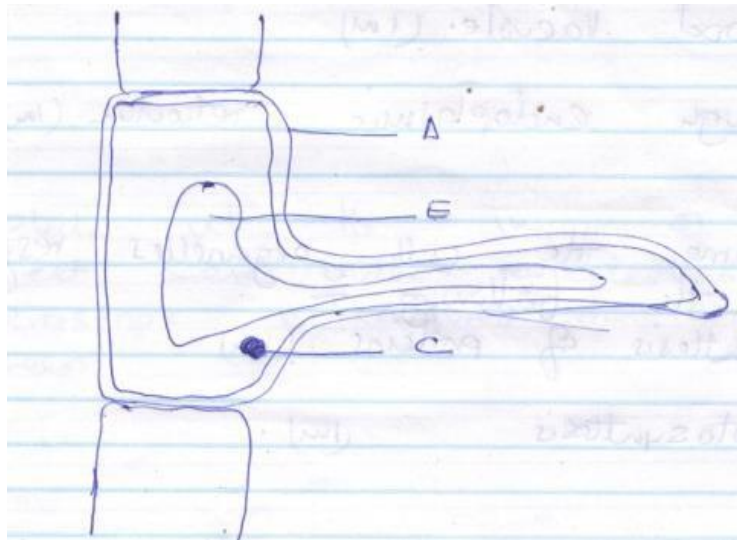
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(iv) Transport materials. (1 mark)

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11. The diagram below shows a specified plant cell.



i. Name the cell. (1 mark)

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ii Name the part labelled D and E. (2 mark)

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b). State the function of the part labeled C. (1 mark)

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12. State one use for each of the following apparatus in the study of living organisms.

a. Pooter. (1 mark)

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b. Pitfall trap. (1 mark)

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13. State the name given to the study of:-

a. The cell. (1 mark)

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b. Micro-organisms. (1 mark)

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14. The scientific name lantana camara refers to a green herbaceous plant. Other related plants include lantana trifoliata and vitex rifoliata.

a. From the list, identify the plants belonging to the same genus.

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b. From the name lantana camara, which name represents the
i. genus name? (1 mark)

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ii. specific name? (1 mark)

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15. Motor vehicles move, use energy and produce carbon (1V) oxide and water. Similar characteristics occur in living organisms yet motor vehicles are not classified as living. Explain. (3 marks)

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SECTION B

16. What is the importance of transport in plants? (3 marks)

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17. List three main processes by which substances pass across a cell membrane. (3 marks)

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18. An animal had the following dentition 0 incisors, 2 canines, 4 premolars and 4 molars on the upper jaw.

6 incisors, 2 canines, 4 premolars and 4 molars on the lower jaw.

a. Construct the dental formula of the animal. (1 mark)

b. What is the mode of feeding of the animal?

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19. Distinguish between Transpiration and Guttation. (2 marks)

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20. The table below shows the initial lengths of two potato strips A and B which placed in different solutions.

Potato Strip	Initial length (cm)	Final length (cm)	
A3	A	3	4.0
B1	B	3	2.5



a. Which potato strip was placed in-
i. Hypotonic solution? (1 mark)

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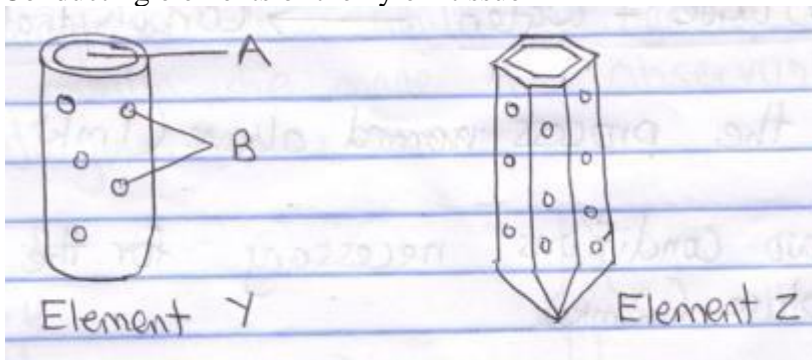
ii. Hypertonic solution? (1 mark)

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b. Which potato strip would be strong? (1 mark)

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21. Below are two different types of cells labeled X and Y which form water
Conducting elements of the xylem tissue



(a) Identify cell Y and Z (1 mks)

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(b) Name the structure labeled A and B in element Y (1 mark)

A

B

(c) What is the main biological importance of parts labeled B in element Y (1 Mks)

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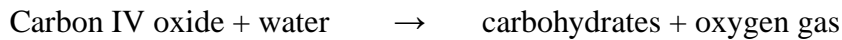
22. Name two function of the colon (2mk)

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23. Distnguish between absorption and Assimilation (2mk)

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24. The equation below represents a process that take place in green plants



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(a) Name the process above (1mark)

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(b) Give two conditions necessary for the process to take place. (2mk)

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25. Name the structural factors that affect the rate of transpiration (2mk)

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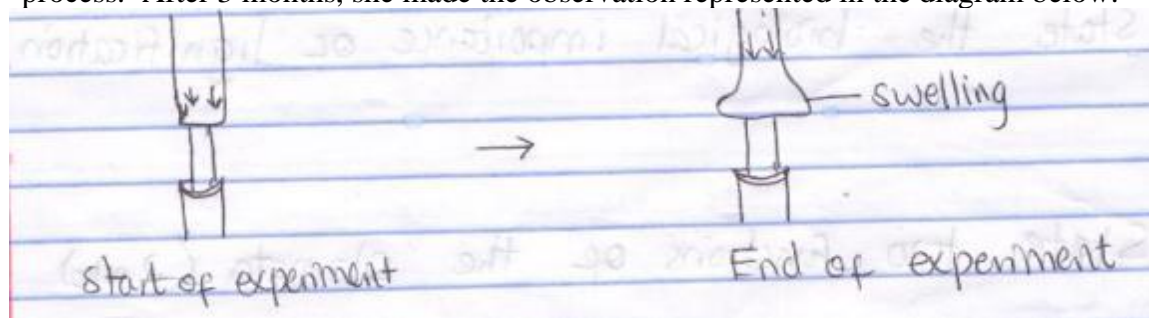
26. Name the deficiency disease of each of the following food nutrients in the diet of man. (3 marks)

Food Nutrients	Deficiency Disease
Vitamin A	
Vitamin K	
Calcium	

27. State two properties of a cell membrane. (2 marks)

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28. A student ringed part of a tree trunk as shown in the diagram below while investigating a certain process. After 3 months, she made the observation represented in the diagram below:



a) Name the process she was investigating. (1 mark)

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b) Account for the observation. (1 mark)

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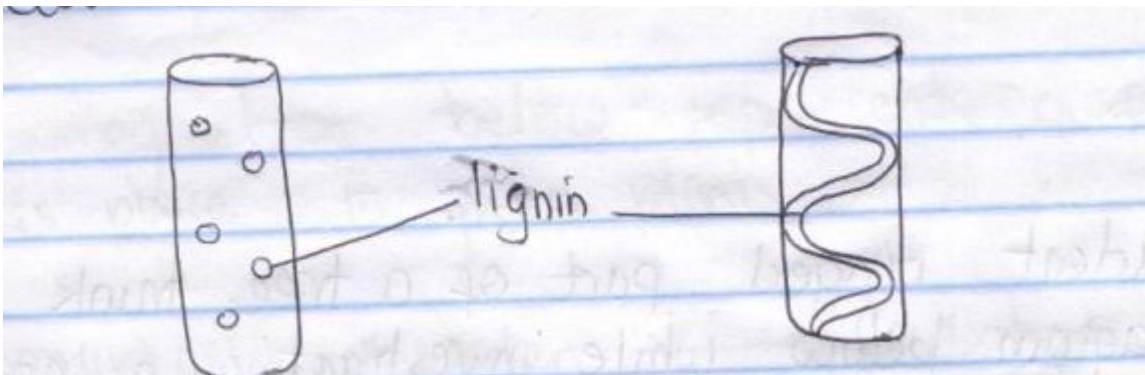
c) Name the tissue that was removed when the tree bark was removed. (1 mark)

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29. The ileum is highly coiled in mammals. State two biological significance of this feature. (2 marks)

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30. A) Name each of the forms of lignifications shown below. (2 mark)



i. Name

ii.Name.....

b) State the biological importance of lignification. (1 mark)

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31. State two functions of the stomata. (2 marks)

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NAME:

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BRILLIANT STUDENTS
FORM 2 END TERM 1 SERIES 2 EXAMS
BUSINESS STUDIES FORM TWO

Time 2 hours

INSTRUCTIONS

Answer all the questions in the spaces provided

1. State the type of utility created by each of the following activities. 4mks

(a) Delivery of milk to a customer _____

(b) Keeping money in the bank _____

(c) Selling bread to a student _____

(d) Making uniform for students _____

2. You are required to come up with a business idea to discuss in your class. Suggest what you will consider to turn it into a good business opportunity. 4mks

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3. Highlight four factors that may lead to overcharge in an invoice. 4mks

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4. One of the functions of an office is to safeguard and control organizations property. State four ways how an office can achieve this. 4mks

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5. Outline four importances of business studies in a society. 4mks

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6. State four features of human wants.

4mks

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7. State four factors that discourage entrepreneurial development in an economy.

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8. Outline four circumstances which would make an office manager to replace an existing machine with a modern one.

4mks

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9. Outline four reasons why government participates in business.

4mks

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10. State any four internal business environments. 4mks

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11. State four ways in which productivity of land can be improved as a factor of production. 4mks

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12. Highlight four circumstances under which a firm will prefer to establish an open office. 4mks

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13. Identify four types of cash terms of payment. 4mks

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14. Name the factor of production that each of the following resources relate to:
4mks

No.	Resource	Factor of production
(a)	Manager	
(b)	Vehicle	
(c)	Owner	
(d)	Water	

15. Rose bought goods from Ali traders on credit. Outline four means of payments she can use to clear her debt. 4mks

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16. State four reasons why consumers have to make a choice between competing needs.4mks

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17. State four reasons why Kalekye should run a sole proprietorship form of a business rather than a partnership firm. 4mks

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18. For each of the following statements, state the appropriate term used. 4mks

(a) Obtaining nature resources from the nature setting.

(b) Process of changing raw materials into finished goods buy combining different components.

(c) Mental/physical effort applied in production.

(d) Building of structures such as premises/buildings.



19. Name the business document to which each of the following description relate.

4mks

No.	Description	Document used
(a)	Issued by a seller to buyer as payment for good/service in cash	
(b)	Used to correct an overcharge	
(c)	Used to inform the buyer that the goods ordered have been dispatched	
(d)	Document sent by the buyer to find out whether the seller stocks certain specified goods.	

20. Outline four gaps in society that may give rise to a business opportunity. 4mks

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21. Name the office machine used to perform the following functions.

4mks

Function		Machine
(a)	To fold document, place them in the envelope and seal.	
(b)	Used to transmit printed messages such as letters, maps diagrams and photographs	
(c)	Reproducing documents from a master copy (stencil)	
(d)	Printing postage impressions on the envelopes	

22. State four features of a departmental store.

4mks

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23. State four reasons why business exist in the society.

4mks

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24. List four types of partners in a partnership

4mks

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25. Identify the rewards of the following factors of production.

<u>FACTORS</u>	<u>REWARD</u>
(a) Limestone	_____
(b) Doctor	_____
(c) Tractor	_____
(d) Landlord	_____ 1x4 = 4mks)

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BRILLIANT STUDENTS
FORM 2 END TERM 1 SERIES 2 EXAMS

CHEMISTRY FORM 2

Kenya Certificate of Secondary School

TERM: 2 HOURS.

INSTRUCTIONS: ANSWER ALL THE QUESTIONS IN THE SPACES PROVIDED

FOR EXAMINERS USE ONLY

QUESTIONS	MAXIMUM SCORE	CANDIDATE'S SCORE
1-21	80	

1) Define the terms below

a) Atomic number (1mk)

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b) Mass number (1mk)

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2) An atom can be represented as ${}^1_6\text{W}$. What do the numbers 12 and 6 represent? (2mk)

3) Differentiate between corrosion and rusting (2mk)

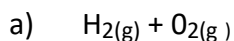
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4) Describe how liquid air can be obtained (3mk)

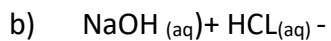
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5) Complete and balance the following equations

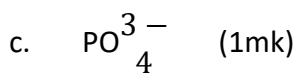


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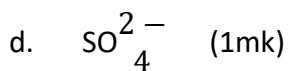


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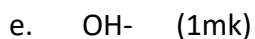
6) Name the radicals below



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7) The grid below is part of the periodic table , the letters are not actual symbol

A									B
							C		
D						χ			

Study it and answer the questions below

a) What do the rows and columns represent?

Rows (1mk)

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Columns (1mk)
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b) Write the electronic arrangement of element C (1mk)
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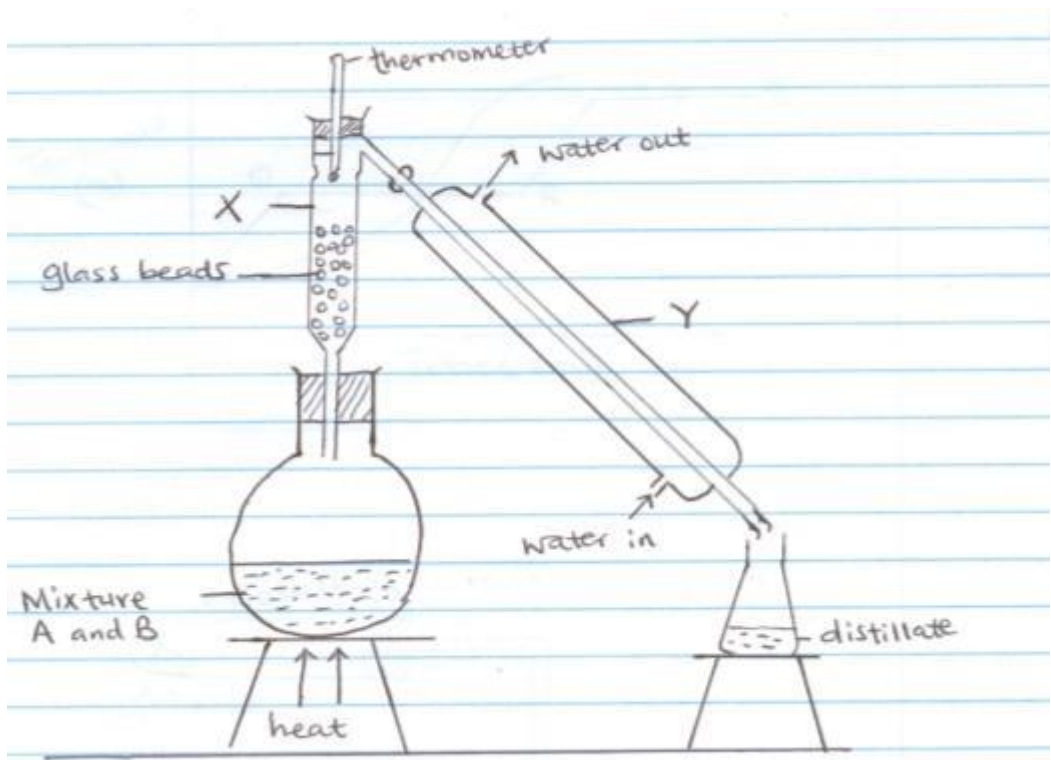
c) Draw the atomic structure of C (2mk)

d) On the grid show the position of the element with the following electronic arrangement
E=2.1 F=2.8.5 (2mk)

8) (a) Carbon atom can be represented as ${}^1_6\text{C}$ and ${}^{14}_6\text{C}$ State the name given to such atoms (1mk)

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b) Calculate the relative atomic mass of carbon , if atom ${}^{14}_6\text{C}$ has relative abundance of 1.1% (3mk)

9) The set up below was used to separate liquid A (boiling point of 78°C) and liquid B (boiling point 100°C) mixture



a) Name the process shown above (1mk)

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b) Name the apparatus labelled

i. X (1mk)

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ii. Y (1mk)

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c) Which liquid was collected first as the distillate? Give a reason for your answer. (2mk)

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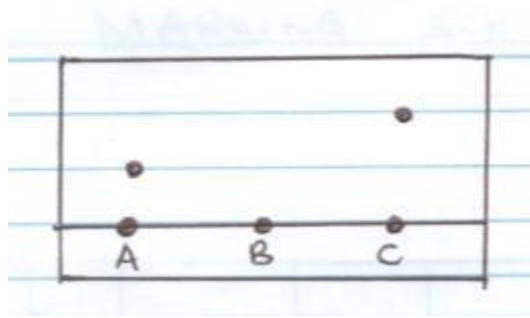
d) State the role of glass beads. (1mk)

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10) State two reasons why non luminous flame is used in the laboratory instead of the luminous flame. (2mk)

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11) The diagram below shows chromatograms for substances A, B and C



32. Name the technique used to separate the substances above. (1mk)

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33. Show the solvent front on the diagram above. (1mk)

34. What does the chromatogram indicate about

d) Substance A (1mk)

e) Substance B (1mk)



35. Substance D contains substances A and C. Show the chromatogram of D on the diagram (2mk)

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12) Study the following table below and answer the questions that follows (The letters do not represent the actual symbols of the element)

Atom	Atomic Number	Mass Number
M	9	19
N	12	24
O	13	26
P	13	27
Q	19	39

c. What is the electronic configuration of Ion of M and P (2mk)

M

P

d. Identify the non-metallic element. Give a reason (2mk)

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e. To which period do the following elements belong?

(i) M
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(ii) P



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(iii) Q

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(iv) Giving a reason state the group to which element M belong. (2mk)
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(v) Write the formulae of the most stable ions of M and Q (2mk)
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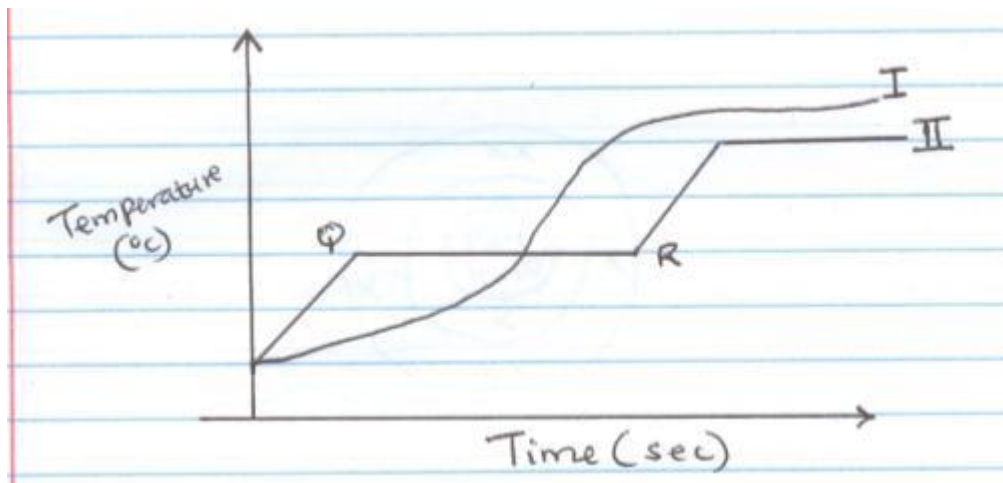
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(vi) Write the formula of the compound formed between element M and Q (1mk)
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(vii) Give the number of neutrons in the following atoms (2mk)

N

O

13) The curves below represents variations of temperature with time when samples of solids were heated separately



a. Which curve shows the variation of temperature for a pure solid? Explain (2mk)

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b. Explain why the temperature does not rise between QR. (1mk)

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14) Name two apparatus used to measure fixed accurate volume of liquids in the laboratory (2mk)

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15) Name the most suitable method used to obtain the following substances from their mixture (2mk)

(a) Oil from nuts

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(b) Ammonium Chloride from sodium chloride

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(c) Salt from salty water

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(d) Iron filings from sand

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16) Element B and C belong to the second group of the periodic table. Element B is above C in the group

i. How does their atomic radii compare? Explain? (2mk)

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ii. How does reactivity of these elements with dilute acids compare. Explain(2mk)

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iii. Write an equation for the reaction between element C with dilute hydrochloric acid (1mk)

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iv. Name two elements which belong to group II and state their uses.(2mk)

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17) The atom of element L has electronic configuration of 2.8.6

(a) What is the valency of L (1mk)

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(b) Draw the structure of the ion formed by L (2mk)

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(c) Write the formulae of the compound formed between element L and hydrogen (1mk)

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18) State two industrial uses of oxygen gas (2mk)

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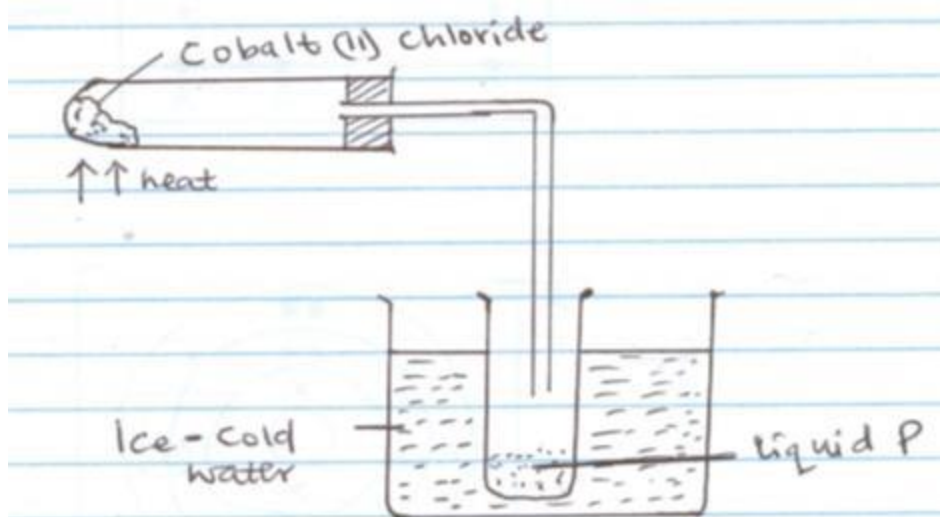
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19) Fill in the colour of the following indicators in acid and basic solution (2mk)

Name of Indicator	Acidic	Basic
Phenolphthalein		
Methylorange		

20) Study the set up below and answer the questions that follow



a) What is the colour of hydrated cobalt (II) Chloride (1mk)

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b) What is the use of ice cold water (1mk)

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c) How can liquid P be confirmed to be water (1mk)

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21) Write the chemical formulae of the following compounds

a) Lead(II) carbonate (1mk)

b) Magnesium nitrate (1mk)

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BRILLIANT STUDENTS
FORM 2 END TERM 1 SERIES 2 EXAMS

COMPUTER STUDIES FORM TWO

1. Explain the following terms as used in information Technology with reference to software purchase:-

i) User friendliness (1mk)

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ii) Authenticity (1mk)

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2. Give three ways in which a magnetic tape differs from a magnetic disk (6mks)

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3. Name the three components of a spreadsheet (3mks)

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4. i) What is a page header (1mk)

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ii) Differentiate between a page margin and a page border. (1mk)

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5 State any two differences between function keys and special keys of a keyboard. (2mks)

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6 i) Give any two differences between margin guides and column guides as used in desktop publishing (2mks)

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ii) what does the gutter in a word processor mean in relation to column settings? (1mk)

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7 Why is a computer referred to as an electronic device (1mk)

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8. Why is a mobile phone regarded to be a computer (3mks)

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22) State any three reason why computers are a much more preferred machine to use in an office and business than other office machines. (3mks)



23) State any three factors to consider when preparing a computer laboratory (3mks)

11. Define the following terms as used in relation to operating systems (2mks)

a) Folder

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b) Drive

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12. State any two functions of a UPS (2mks)

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b) Piracy is the worst computer crime that is scaring software developers out of their wits. Suggest any ways that can be instituted to reduce to reduce piracy (4mks)

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c) State any four measures that can be taken to detect, prevent computer crimes and seal security loopholes. (4mks)

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13. a) A shopkeeper of a small shop at manga has bought a desktop computer to assist him in performing his business activities. He has been advised that before he can use it to work he has to install it with an operating system. State any six factors to consider when choosing the operating system (6mks)

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b) With reference to disk management explain what is meant by the terms below.

i) Formatting (1mk)

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ii) Defragmentation

(1mk)

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iii) Disk partitioning

(1mk)

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v. Give any two reasons that may make the shopkeeper to partition the computer disk(2mks)

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vi. The shopkeeper one day switched on the computer and experienced a number of problems with windows operating system that he had installed. The problems included failure to load the operating system during the booting. After several trials of switching on the computer booting, it hang so often alongside abnormal restarting. State any four possible causes for the computer's behaviour. (4mk)

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2. Explain the following terms as used in computer science (8mks)
(i) Data

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(ii) Program

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(iii) Data processing

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(iv) Information

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(c) Differentiate between tower – style and desktop system units (2mks)

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(d) Give two reasons why smaller computers like Laptops tend to be more expensive than Desktop computers (2mks)

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(e) (e) Mention four Analogue devices (2mks)

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(f) Give three example of special – purpose computers (3mks)

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14. List down three safety precautions one should observe when entering a computer laboratory(3 mks)

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15. Describe the ideal environment for a computer to work properly (3 mks)

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16. Differentiate between a computer and a computer system (2mks)

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17. (a) List and explain three functional elements of a computer system (6 mks)

Hardware

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c) Software

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f. Live – ware (people – ware)

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c) Giving an example in each case, explain the following types of operating systems

(a) Single – user / single tasking

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(b) Multi- User/ Multi- tasking

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19. a) (i) Identify three functions of taskbar

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(ii) Explain two methods you can use in windows to back up data into a storage device (2 mks)

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(b) Identify two reasons why a user needs to know the space available for data storage in the hard disk

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20. (a) What is a template?

(1mk)

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b) State two advantages of using a template to create a document. (2mks)

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BRILLIANT STUDENTS FORM 2 END TERM 1 SERIES 2 EXAMS

CRE TIME: 2 1/2 HRS ANSWER ANY FIVE QUESTIONS IN THE SPACES PROVIDED

- 1a)** From the Genesis stories of creation outline seven ways in which man is considered special to the rest of creation (7mks)
- b) With reference to the story of the fall of man in Gen 3, identify seven consequences of sin. (7mks)
- c) State six ways in which Christians continue with God's work of creation. (6mks)
- 2a)** state seven promises God made to Abraham during his call Gen12:1-6(7mks)
- b) Outline eight lessons Abraham learnt about God during his call. (8mks)
- c) Identify five leadership qualities that Christians can learn from Moses. (5mks)
- 3a)** state seven roles of medicine men in the traditional African community.(7mks)
- b) Explain ways in which mutual responsibility and harmony was promoted in the traditional African community.(7mks)
- c) Outline six challenges facing traditional herbalists in Kenya today. (6mks)
- 4a)** outline Jeremiah's prophecy about the messiah jer23:5-6(6mks)
- b) Explain Simeon's prophetic messages about Jesus during His dedication Lk2:21-40(6mks)
- c) State eight ways in which parents develop their children's spiritual life(8mks)
- 5a)** Identify seven reasons why Jesus was baptized. (7mks)
- b) Give five ways in which baptism is a form of a modern covenant. (5mks)
- c) Outline the significance of baptism to Christians today. (8mks)
- 6a)** Describe the call of the first disciples LK5:1-11(8mks)
- b) What lessons do Christians learn from the call of the first disciples.(7mks)
- c) Give five reasons why a person should be converted to Christianity.(5mks)

2. COMPREHENSION.

(20 MARKS)

Read the following story and answer the questions that follow.

“Elephant learns some manners”

One day elephant came across Squirrel on the path to the river. The proud and lordly Elephant swept Squirrel off the path with his trunk, rumbling, “Out of my way, you of no importance and tiny size”. Squirrel was most offended, as he had every right to be. Stamping his little feet in a rage, he decided that he was going to try and teach Elephant some manners.

“Ho!” shouted Squirrel indignantly, “you may be very tall, and you may be very proud, and I bet you think you’re the greatest animal on earth, but you are much mistaken!”

Elephant looked round in surprise. “I am not mistaken, Squirrel”, he rumbled, “I am the greatest, and everyone knows it”.

“Let me tell you something, Elephant,” said Squirrel, chitterling angrily and flicking his tail, “I may be small, but I can eat ten times as much as you! I challenge you to an eating contest – and I bet you that I, Squirrel, can eat more palm nuts, and for a longer time, than you, high and mighty Elephant!” Elephant roared with laughter. He was so amused, in fact, that he accepted the tiny creature’s challenge. Besides, he was rather fond of palm nuts.

So both animals collected a huge pile of palm nuts and agreed to start the contest the very next morning at first light. Elephant could hardly wait. He even skipped his evening meal of acacia pods so as to be truly empty for the morning. He intended to put Squirrel firmly in his place, once and for all.

The next day dawned fine and sunny, as it often does in Africa, and the two contestants started to eat. Elephant munched steadily through his pile, with a fine appetite. Squirrel, nibbling away furiously, was soon full to bursting. Quietly, he slipped away, sending a cousin who was hiding nearby to take his place. Elephant was so absorbed in his greedy task that he didn’t even notice.

Brothers, sisters, cousins, uncles, aunts – one hungry squirrel after another took a turn at the pile of palm nuts.

Eventually, at midday, Elephant looked up. “Well, Squirrel, have you had enough yet?” he asked, surprised to see his small adversary still busily eating. Not only was he still eating, but his pile of palm nuts was disappearing almost as fast as Elephant’s own.

“Not yet!” mumbled Squirrel, his mouth full, “And you?” “Never!” replied Elephant scornfully. And he started to eat a little faster. By the time the sun was setting, Elephant was so full he could hardly stand. He looked over to where Squirrel, who had come back after a day of sleeping in a nearby tree), was still eating more palm nuts. Elephant groaned.

“Truly you are amazing, Squirrel,” he said. “I cannot go on, and I’m forced to admit that you have won the contest”. And he lifted his trunk in salute. Squirrel, hopping with delight, thanked Elephant and told him not to be so proud in future. And from that day to this, Elephant has always shown great respect for Squirrel.

(When Hippo was Hairy and Other Tales from Africa, Lutterworth Press, 1990)

a) Classify this narrative with reasons. (2 marks)

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b) Explain why the squirrel was offended. (6 marks)

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c) Mention two items that the elephant liked to eat. (2 marks)

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d) Elephant was so full that he could hardly stand. (Rewrite; beginning: So full.....) (2 marks)

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e) Identify 3 aspects of style used in the narrative . Illustrate each. (3 marks)

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f) Identify and illustrate character traits of:

(i) Elephant

(2 marks)

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(ii) Squirrel

(2 marks)

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g) Write one English proverb to summarize the moral lesson in this narrative. Explain. (3 marks)

h) Explain the meaning of the following as used in the passage.

(2 marks)

(i) Intended

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(ii) Full to bursting

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3. POEM:

Read the poem below and answer the questions that follow. (15 marks)

I had a dream last night, I dreamed
I had to pick a mother out.
I had to pick a father too
At first, I wondered what to do,
There were so many there, it seemed.
Short and tall and thin and stout.
But just before I sprang awake.
I knew what parents I would take.

And this surprised and made me glad:
They were the ones I always had!

a. Write a rhyme scheme of the poem above. What is its effect? (4 marks)

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b. Mention three sound patterns that the poet has used. (3 marks)

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c. Which words would you stress in line 7 of the poem? (3 marks)
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d. How would you say the last line of this poem? (2 marks)
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e. If you are performing this poem to your classmates, how would you know that they are not concentrating? (3 marks)
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4. CLOZE TEST. (10 MARKS)

Demi and Mathathi were(1) of the tribe.(2) cut down trees and cleared the dense forests(3) cultivation. They owned(4) cattle, sheep and goats and they often sacrificed to Murungu and held communion with the ancestral spirits. Waiyaki had(5) about these two generations of the tribe and he was proud of them. Only he wished he knew what they had(6) like. They must have been great and strong to have braved the(7) of the forest. Sometimes in the bush, he and (8) boys played Demi and Mathathi. One day a boy from Koina told Waiyaki. “.....(9) cannot be Demi”.

“Why?” he asked. The other(10) came round.

5. GRAMMAR. (15 MARKS)

1. Give the silent letter in the following words. (5 marks)

- (i) Pitch
- (ii) Lamb
- (iii) Palm
- (iv) Bridge
- (v) Honour

2. Match the phrasal quantifiers with right nouns. (5 marks)

- a. A bundle of.....
- b. A tube of.....
- c. A pinch of
- d. A bouquet of
- e. A blade of

3. Fill in each gap in the following sentences with a possessive pronoun. (5 marks)

- 1. This computer belongs to Kurgat. It is
- ..
- 2. This house belongs to me. It is
- 3. This country belongs to us. It is.....
- 4. These balls belong to the boys. They are
- 5. This handbag belong to Joan. It is

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BRILLIANT STUDENTS
FORM 2 END TERM 1 SERIES 2 EXAMS

GEOGRAPHY FORM TWO

INSTRUCTIONS.

-Answer all the questions in the spaces provided

1. a) What is an eclipse? (2mks)

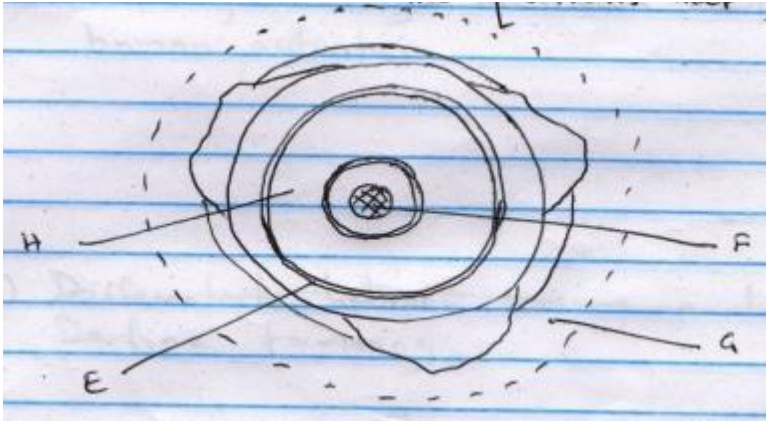
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b) State three effects of the earth's rotation. (3mks)

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2. The diagram below shows the structure of the earth. Use it to answer the questions that follow



d) Name the parts marked E,F, and G (3mks)

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e) Describe the characteristics of the part labeled H. (4mks)

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3. a) Identify the three forms of metamorphism. (3mks)

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b) Give the metamorphic equivalents of the following rocks (4mks)

i) Granite
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ii) Limestone
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iii) Quarts
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iv) Coal
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4. a) What is a seismic wave?
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b) State four ways in which earthquake affects human activities. (2mks)

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5. a) Define faulting.

(2mks)

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b) Describe how the following features are formed

i) Rift valley

(6mks)

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ii) Caldera by violent eruption.

(4mks)

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c) State four negative effects of vulcanicity on human beings. (4mks)

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d) You are planning to carry out a field study on features formed by vulcanicity on the landscape.

i) Give two methods you would use to collect data. (2mks)

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ii) State two problems you may face during the field study. (2mks)

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6. a) State four ways in which minerals may occur. (4mks)

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b)(i) other than deep shaft method, name two other underground methods of mining. (2mks)

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ii) Describe how deep shaft mining method is carried out.

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f) Explain two ways in which Kenya has benefited from the mining of soda ash from Lake Magadi. (4mks)

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g) State four adverse effects of gold mining to the environment of South Africa. (4mks)

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7. a) (i) Define weather

(2mks)

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ii) Give any three elements of weather apart from humidity.

(3mks)

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iii) Describe how humidity is measured in weather station.

(4mks)

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b) (i) Define weather forecasting.

(2mks)

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ii) State four importance of weather forecasting.

(4mks)

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8. a) Define folding. (2mks)

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b) Give three types of folds. (3mks)

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c) (i) Apart from Fold Mountains, give two other resultant features of folding. (2mks)

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(ii) With the help of well labeled diagram describe how fold mountains are formed (8mks)

c) Explain the effects of folding on physical and human environment (8mks)

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BRILLIANT STUDENTS
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HISTORY AND GOVERNMENT
FORM 2

SECTION A (25MKS)
Answer all Questions in this Section

1. Give two branches in the study of History and Government. (2mks

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2. Identify two types of electronic sources of information on History and Government.(2mks

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3. Identify two economic activities of the early man. (2mks

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4. Identify two theories that explain the origin of Agriculture. (2mks

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5. Identify one social effects of the interaction of the Somali with the Bantus before 1200 AD (1mk

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6. State the main economic activity of Purko Maasai during the pre-colonial period.(1mk

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7. Name two factors that enabled Arab traders to come to Kenyan Coast by 1500 AD.. (2mks

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8. Name two historical monuments built by the Portuguese along the Kenyan Coast. (2mks

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9. Name the earliest missionary society to send missionaries in Kenya during the 19th century.(1mk

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10. Give one symbol of National Unity in Kenya. (1mk

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11. Mention two methods of Trade. (2mks

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12. Highlight two effects of local Trade. (2mks

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13. Give two advantages of human transport. (2mks

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14. State one feature of a cell phone. (1mk

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15. Identify two Nations which pioneered space exploration (2mks

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SECTION B
ANSWER ALL QUESTIONS IN THIS SECTION (45MKS)

16. a) Identify five factors that led to the migration of the Agikuyu. (5mks)

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b) Explain five social effects of the migration of the Luo into Kenya. (10mks)

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FORM TWO

HOMESCIENCE

1. Give the two major types of household refuse. (2 marks)

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2. Give reasons why refuse should be disposed off appropriately. (2 marks)

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3. Define the term drainage. (2 marks)

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4. (a) Discuss four disadvantages of free drainage system. (4 marks)

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(b) State four causes of poor sanitation. (4 marks)

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5. Name four classes of laundry equipment. (2 marks)

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6. State the points to consider when choosing shoes. (4 marks)

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7. What is a house? (1 mark)

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8. Describe the following methods of dirt removal.

(a) scrubbing (2 marks)

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(b) wiping (2 marks)

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9. State three desirable qualities of a good clothes line. (3 marks)

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10. Name four types of soap found in the Kenyan market. (2 marks)

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11. Differentiate between regenerated fibres and synthetic fibres. (2 marks)

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12. Highlight two laundry processes that are harmful be wollen fibres. (2 marks)

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13. State three ways of minimizing wastage of detergents when washing. (3marks)

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SECTION B

15. You are intending to host a birthday party for your younger brother.

(i) Give the procedure on how you would thoroughly clean a cemented floor of the room you will use.
(8 marks)

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(ii) Describe the procedure you would follow to launder silk blouse/short you intend to wear.(1 1/2 marks)

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SECTION C

16. (a) Why do we use bleaches in laundry. (3 marks)

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(b) State other ways of bleaching clothes a part from using chemical bleaches. (2 marks)

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(c) State the differences between wear and tear. (6 marks)

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(d) Name four common methods of repairing clothes and household articles. (4 marks)

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17. (a) Briefly describe the two major classes of stitches. (4 marks)

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(b) By use of well labeled diagrams describe the working of the following stitches.

(i) Even tacking. (4 marks)



(ii) Basting stitches/diagonal tacking.

(4 marks)

(ii) Describe the procedure you would follow to launder silk blouse short you intend to wear.(1 1/2 marks)

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SECTION C

16. (a) Why do we use bleaches in laundry (3 marks)

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(b) State other ways of bleaching clothes apart from using chemical bleaches. (2 marks)

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(c) State the differences between wear and tear. (6 marks)

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(d) Name four common methods of repairing clothes and household articles. (4 marks)

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(e) Give four reasons for soaking clothes before washing.

(4 marks)

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(f) Give four reasons for soaking clothes before washing.

(4 marks)

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13. (a) Briefly describe the two major classes of stitches.

(4 marks)

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(b) By use of well labeled diagrams describe the working of the following stitches.

(i) Even tacking. (4 marks)

(ii) Basting stitches/diagonal tacking. (4 marks)

(c) Identify four limitations of using cotton fabrics. (4 marks)

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(d) Give two reasons why nylon fibre is not a popular material for making lingerie. (2 marks)

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(e) State two qualities of a good tape measure. (2 marks)

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JINA:

SHULE:

NAMBARI YA USAJILI: **SAHIHI:** **TAREHE:**

BRILLIANT STUDENTS

FORM 2 END TERM 1 SERIES 2 EXAMS

MTIHANI WA MWISHO WA MUHULA WA KWANZA

KISWAHILI KIDATO CHA PILI

UFAHAMU

Soma taarifa ifuatayo kisha ujibu maswali.

Ponografia ni tendo, maandishi, picha au michoro inaonyesha au kueleza uchi wa mtu au vitendo vya ngono kwa ajili ya kuchochea ashiki ya kuifanya. Mambo haya machafu huwasilishwa ana kwa ana kupitia sinema, magazeti, vitabu, muziki, televisheni, tovuti na kanda za kunasia picha na sauti.

Ponografia imekuwepo tangu jadi, hasa katika nchi za magharibi. Lakini sasa limekuwa tatizo sugu. Hii ni kwa sababu imeenea kote ulimwenguni mithili ya moto mbugani wakati wa kiangazi. Kuenea kwake kumechangiwa na mambo kdha wa kadha. Mchango mkubwa zaidi ukiwa umetokana na kuimarika kwa vyombo vya teknolojia ya habari na mawasiliano. Hata hivyo, kazi hii hubuniwa au kuchukiza wanajamii waadilifu. Kundi lingine ni lile la wanaochukia ponografia kama nyenzo ya kutosheleza ashiki zao. Kwa mfano, baadhi ya wanamuziki hutumia ponografia kuvutia wateja na hivyo kuzidisha mauzo yao.

Kushamiri kwa wimbi na uonyeshaji wa ponografia kuna athari kubwa kwa jamii hasa watoto. Ingawa watu wengine hudai picha hizi haziwathiri, upo ushahidi kuonyesha kuwa wale wanaotazama picha za ngono hupata matatizo. Lazima ieleweke kwamba kinachoonekana kwa jicho au kusikika kwa sikio huathiri fikira au hisia. Picha za matusi zinachangia kwa kiasi kukubwa kuharibu akili. Badala ya kuzingatia mambo muhimu kama vile masomo, watu huanza kutafakari mambo machafu.

Vijana wengi ni kama bendera, huyaiga wanayoyaona na kuyasikia. Hili ni tatizo linalowafanya kuacha mkondo wa maadili. Hivyo basi wengi hushawishiwa kuingilia shughuli za ngono mapema kabla hawajakomaa kimwili, kiakili na kihisia. Matokea yake ni ukahaba, utendaji mbaya shuleni,

mahudhurio mabaya ya darasani na mimba zisizotarajiwa. Vijana wengi huacha shule kabisa huku wengine wakiambukizwa magonjwa ya zinaa ambayo yanaweza kuwaletea mauti.

Yasemekana kuwa akili za binadamu hunasa zaidi mambo yanayowalishwa kwa picha na hivyo basi matusi haya yaweza kudumishwa katika kumbukumbu zao. Tabia mbaya kama vile ushoga, ubasha na usagaji huwa matokeo yake na hata matokeo ya vijana hugeuka wanapoanza kuiga mitindo mibaya ya mavazi yanayoanika uchi wao. Hali kadhalika, lugha, ishara na miondoko inayohusiana na ngono huibuka. Yote haya yanakinzana nadesturi za desturi za mwafrika. Si ajabu visa vya ubakaji vinaongezeka kuchapo. Utazamaji wa picha chafu aghalabu huandamana na maovu mengine kama vile unywaji pombe na matumizi ya vileo ambavyo huchochea uchu wa ngono na kuibua tabia za kinyama.

Kuendelea kuzitazama picha hizi huzifanya nishai na hisia za watu kuwa butu, huondoa makali kiasi kwamba hata katika uzima mtu hupoteza mhemko na kugeuzwa kuwa mtegemezi wa ponografia. Tatizo hili linaenea kwa vishindo mjini na vijini. Ipo haja ya dharura kuikinga jamii kutokana na malezi haya yasiyo na kizuizi.

Kuongeza ufahamu wa umma wote kuhusu uovu wa picha hizi, watu kuwajibika kwa kuwalinda na kuwahimiza vijana kuhusu maovu haya na wale wenye midahilishi, video na sinema kutowaruhusu vijana kutazama uchafu huu kunaweza kuwa maana ya kuyakinga au hata kuyaepuka madhara ya ponografia. Ni sharti pia sheria izuie na kupiga marufuku utengenezaji na ueneaji wa upungufu huu. Bila shaka, sheria na hatua kali ziweze kuchukuliwa dhidi ya waivunjao. Hali kadhalika, wazazi wasijipweteke tu bali wawaelekeze watoto wao ipasavyo na kila mtu alitekeleze jukumu lake.

MASWALI

1) Yape makala uliyosoma anwani mwafaka (al 1)

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2) Toa sababu za kusambaa kwa uchafu unaozungumziwa katika taarifa. (al 2)

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3) “Bendera hufuata upepo” Thibitisha ukweli wa kauli hii kulingana na makala(al 1)

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4) Ponografia huchangia madhara mengi hasa miongoni mwa vijana. Taja manne.(al 4)

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5) Ni hatua zipi zinazofaa kuchukuliwa dhidi ya aina ya uozo unaozungumziwa na mwandishi?
(al 4)

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6) Fafanua msamiati huu kimuktadha.

a) Uchu

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b) Wasijipweteke

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c) Kuwa butu

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MATUMIZI YA LUGHA

(AL 55)

ai) Sauti ni nini katika lugha

(al 1)

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ii) Taja sifa mbili bainifu za /m/

(al 2)

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b) Kwa kutoa mifano, eleza dhana hizi:

(al 2)

(i) Silabi wazi

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(ii) Silabi funge

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c) Ainisha mofimu katika neno :

(al 3)

Anatupikia



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d) Bainisha aina za nomino zilizotumika katika sentensi ifuatayo.

i. Juma alimpa mtoto yule maji ya Baraka (al 4)

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e) Andika kwa wingi:

i) Ile ya kujengea haijaletwa

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ii. Andika kwa umoja

Mishale yao ilifungwa kwa manyoya mengi meusi (al 2)

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f) Andika katika ukubwa wingi
Njia hii inafaa zaidi kuliko ile (al 2)

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7) Yakinisha:

a) Sikusikia kuwa alichapwa wala kuumizwa (al 2)

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b) Asingefika mapema asingemsaidia (al 2)

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8) Taja ngeli za nomino zifuatazo (al 3)

i) Maziwa

ii) Chai

(iii) Kinyongo

9) Tofautisha maana katika sentensi zifuatazo:

i) Chakula chote kinapendeza

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(ii) Chakula chochote kinapendeza

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10) Tumia neno “alasisi” katika sentensi kama: (al 2)

a. Nomino

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b. Kielezi

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11) Kirai ni nini? (al 2)

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12) Wachezaji walikula chakula chote.

Anza: Chakula

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13) Tambua aina ya maneno :

a) Ng'ombe mweusi atachinjwa leo (al 2)

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14) Kwa kutoa mifano, eleza maneo mawili ya Ritifaa

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15) Eleza maana ya:

(al 2)

c) Ala tuli

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d) Ala sogezi

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16) Bainisha matumizi ya kiambishi 'ni' katika sentensi hizi:-
a. Alikula shuleni

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b. Ni mchezo huo

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17) Andika sentensi zifuatazo ukizingatia maagizo uliyopewa katika mabano. (al 2)
a. Magari yote yalitiwa vidhibiti mwendo (Mazoea)

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b. Alichora na akatuzwa (hali timilifu)

r) Kamilisha methali zifuatazo

(al 2)

h) Ziniwi likujualo.....

i) Hafikilii mbingu

s) Toa maana mbili ya sentensi hii:-

Babu alinipigia mpira

(al 2)

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t) Eleza maana ya misemo hii

(al 2)

i) Valia miwani

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j) Kula kadhongo

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U) Huku ukitoa mifano, eleza maana ya viambishi awali na viambishi tamati.

(al 4)

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ISIMU JAMII

(AL 12)

Soma kifungu kifuatacho kasha ujibu maswali.

Jane: Halo John

John: Halo Jane

Jane: Uko wapi

John: Niko kazini

Jane: Umelost hivi kwa nini?

John: Kazi mob tu na.....

Jane: Tukutane wapi.....lini?

John: Halo.....hallo

i. Tambulisha muktadha wa mazungumzo haya.

(al 2)

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ii. Taja sifa zozote nne zinazotambulisha mazungumzo haya.

(al 8)

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FASIHI SIMULIZI

(AL 20)

1) Eleza sifa za hadithi.

(al 5)

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2) Taja sifa tano za mtambaji bora.

(al 5)

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3) Eleza umuhimu wa vitunza-ndini .

(al 5)

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4. Eleza kikamilifu umuhimu was fasihi simulizi katika jamii. (al 5)

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BRILLIANT STUDENTS

FORM 2 END TERM 1 SERIES 2 EXAMS

FORM TWO MATHEMATICS

END TERM EXAMS

SECTION 1 ANSWER ALL THE QUESTIONS (50 MARKS)

1. Use logarithm tables to evaluate. (4mks)

$$\frac{\sqrt[3]{41.07 \times 0.03142}}{\sqrt{156 \times 5.8941}}$$

2. A straight line passes through points (-2,1) and (6,3) . Find the equation of the line in the form $y=mx + c$ where m and c are constants. (3mks)

3. Simplify

(2mks)

(a) $\frac{ax - ay + bx + by}{(a+b)}$

(b) $\frac{6vu^2 - 6vu}{3vu - 3u^2v}$

(2mks)

4. Find the value of x in

(3mks)

$$2^{x-3} \times 8^{x+2} = 128$$

5. Two shirts and a pair of trousers cost Ksh240. By buying two pairs of trousers and one shirt Njoroge pays sh300. Find the cost of one shirt and pair of trousers. (4mks)

6. Convert the recurring decimal into a fraction. $0.\overline{321}$ (3mks)

7. Three bells ring at intervals of 9 minutes, 15 minutes and 21 minutes. The bells will next ring together at 11.000pm. Find the time the bells had last ring together. (3mks)

8. If 5 men can erect 2 cottages in 21 days how many men working at the same rate will be needed to erect 6 cottages in seven days. (2mks)

9. The difference between the exterior angle and interior angle of a regular polygon is 100° . Determine the number of sides of the polygon. (3mks)

10. Find correct to 4 s.f the value of

$$\frac{1}{1.63} + \frac{3}{7.92} - \frac{2}{2.84} \quad \text{---} \quad \text{using reciprocal tables.} \quad (4\text{mks})$$

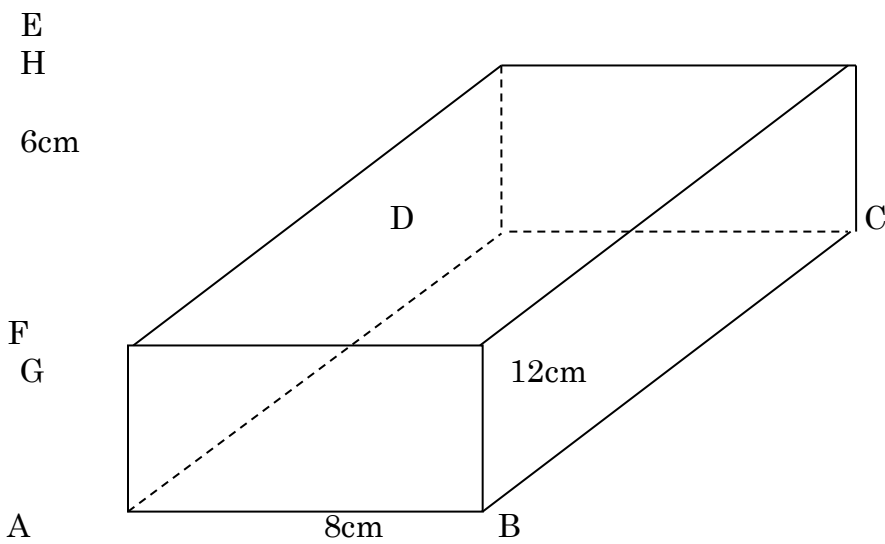
11. Solve for x in

(3mks)

$$\frac{x+3}{3} - \frac{x-2}{4} = \frac{x+1}{2}$$

12. In a manufacturing firm a radio costs Ksh500 to produce. The cost of materials labour and overheads are in the ratio 7:5:n. If the difference between the cost of materials and labour cost is ksh50 find the cost of overheads. (4mks)

13. The figure below shows a cuboid of length 12cm, width 8cm and height 6cm.
Draw the net of the cuboid and use it to calculate area of the solid. (4mks)



14. Given that $a = -2$ and $b = 2$. What is the value of $a^b - b^a$. (2mks)

15. Find, using tables the value of $(0.05317)^2$ (2mks)

16. Simplify without using a calculator. (2mks)

$$2\frac{1}{3} - 1\frac{2}{3} \div \frac{5}{9} .$$

SECTION 2 ANSWER ALL THE QUESTIONS (50 MARKS)

17. A trader sold an item at sh7 500 after allowing his customer 15% discount on the marked price of the item. In so doing he made a profit of 35%

(a) Calculate

(i) The marked price of the item. (3mks)

(ii) The price at which the trader had bought the item. (2mks)

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

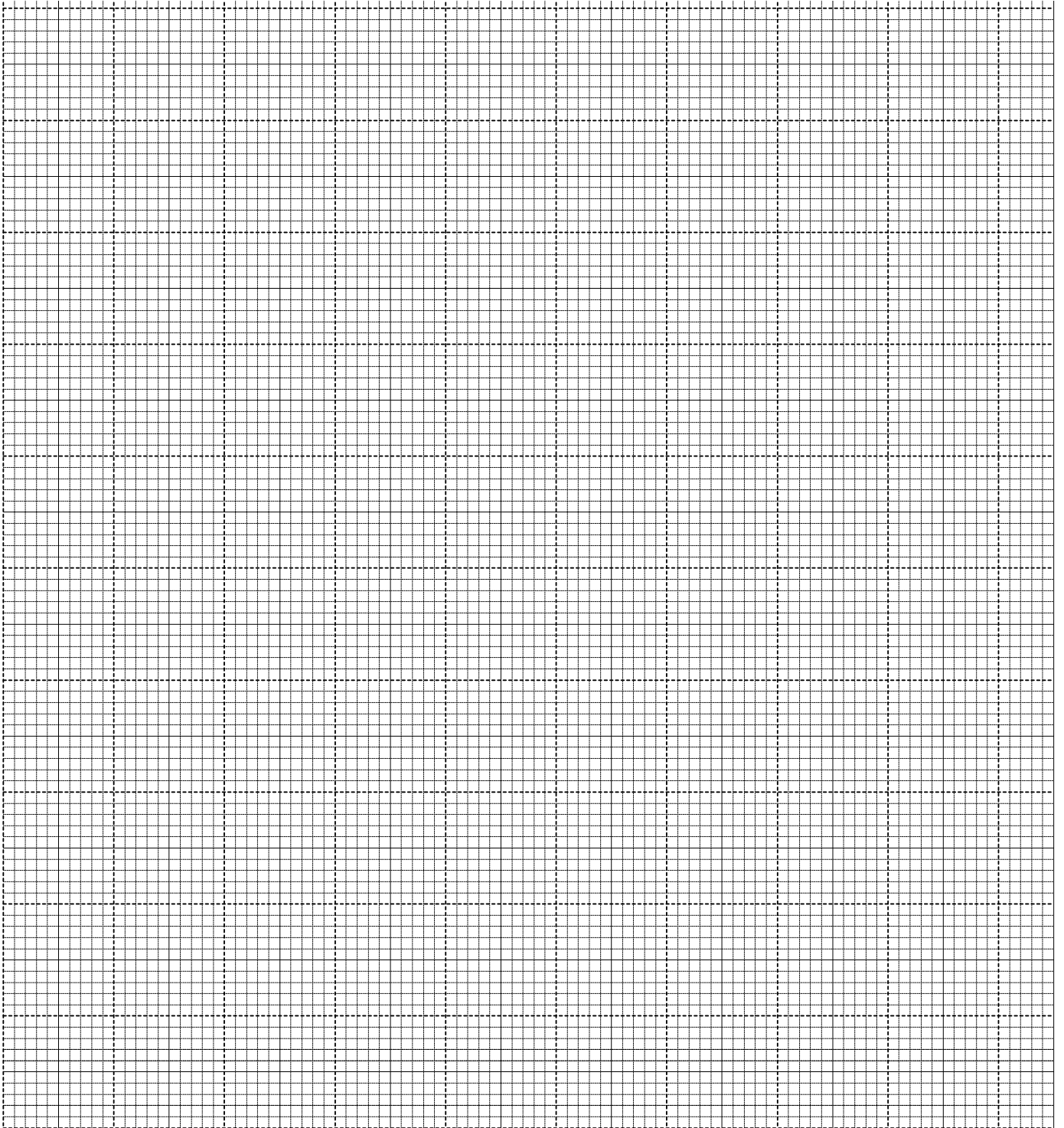
(c) To clear his stock the trader decided to sell the remaining items at a loss of 10%. Calculate the price at which he sold each item. (2mks)

19. (a) On the graph paper draw $A(1,2)$ $B(1,5)$ $C(4,6)$ (1mk)
(b) Draw $A^1B^1C^1$ the image of ABC after a rotation of 90° anti-clockwise about $(0,0)$. State the coordinates of A^1B^1 and C^1 . (3mks)

(PROVIDE A GRAPH PAPER)

- (c) $A_{11}B_{11}C_{11}$ is the image of $A_1B_1C_1$ after a reflection on the x -axis. Draw $A_{11}B_{11}C_{11}$ and state its coordinates. (3mks)

- (d) $A^{111}B^{111}C^{111}$ is the image of $A^{11}B^{11}C^{11}$ after a reflection in the line $y=x$. Draw $A^{111}B^{111}C^{111}$ and state the coordinates of the vertices. (3mks)



20. Measurement of a maize field using a base line XY were recorded in metres as shown below

	Y	
	240	
60 TO R	190	
	180	75 TO Q
	150	50 TO P
100 TO S	120	
	100	
		100 TO N
	20	20 TO M
	X	

(a) Sketch the map of the maize field (4mks)

(b) Find the area of the field in hectares. (6mks)

21. A line L passes through points $(-2, 3)$ and $(-1, 6)$ and perpendicular to a line P at $(-1, 6)$.

(a) Find the gradient of line L. (2mks)

(b) Find the equation of line P in the form $ax + by = c$ where a, b and c are constants. (3mks)

(c) Given that another line Q is parallel to L and passes through $(1, 2)$. Find x and y intercept of Q. (3mks)

(d) Find the point of intersection of line P and Q. (2mks)

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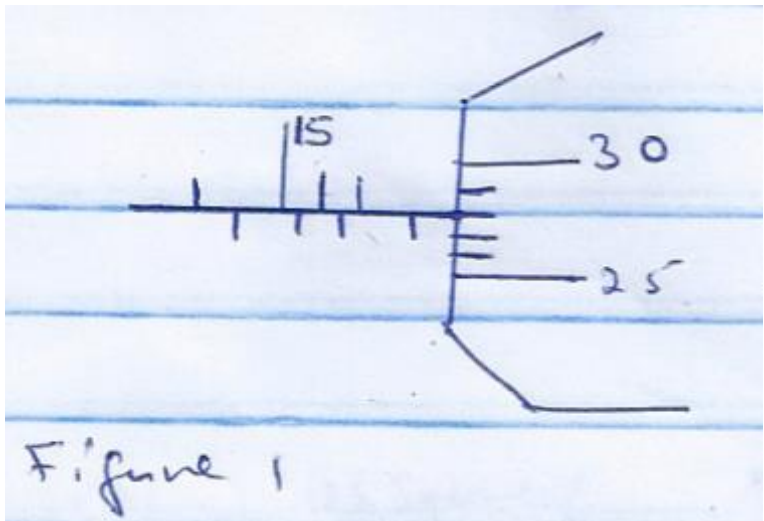
FORM 2 END TERM 1 SERIES 2 EXAMS

PHYSICS

FORM2 PHYSICS

TIME 2 HRS

1. Figure 1 below shows a micrometer screw gauge



What is the reading in S.I units (3mks)

2. Give the reason why it is easier to separate water into drops than to separate a solid into small pieces. (1mk)

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3. State the property of light associated with formation of shadows. (1mk)

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4. Explain why soft iron keepers are suitable for storing magnets (2mks)

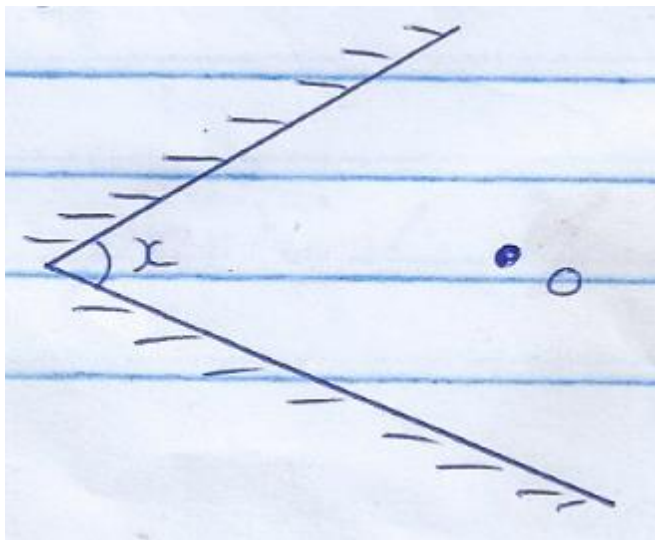
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5. Figure 2 shows two plane mirrors inclined at an angle X to each other. A viewer counts total of 7 images by looking directly from the object o.



Determine the value of angle X (2mks)



6. A pin was observed to float on the surface of pure water. State two adjustments to the set up that may be made to cause the pin to sink other than shaking the container. (2mks)

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7. Explain how the sensitivity of a clinical thermometer can be improved. (1mk)

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8. State the fastest mode of heat transfer. (1mk)

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9. When a Bunsen burner is lit below wire gauze, it is noted that the flame initially burns below the gauze, Explain why after sometime the flame burns below as well as above the gauze. (2mks)

10. (a) State the principal of moments (1mk)

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(b) A uniform meter rule is balanced by masses of 24g and 16g suspended from its ends. Find the position of its pivot. Determine the position of the pivot. (3mks)

11. In using the lift pump to raise water from a bore hole. It is observed that practically the height the water is raised cannot be 10m and more. Give reasons for this observation (2mks)

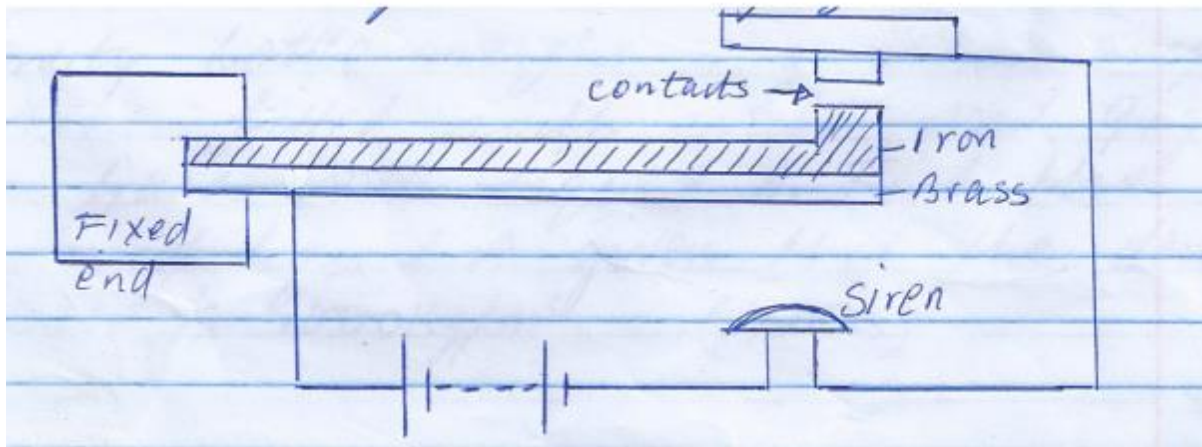
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12. Figure 3 below shows a simple bimetallic thermostat used for detecting fire.



Explain how it works (3mks)

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16. (a) give a reason why ink is most likely to be used out of a pen when one is up in an aeroplane (2mks)

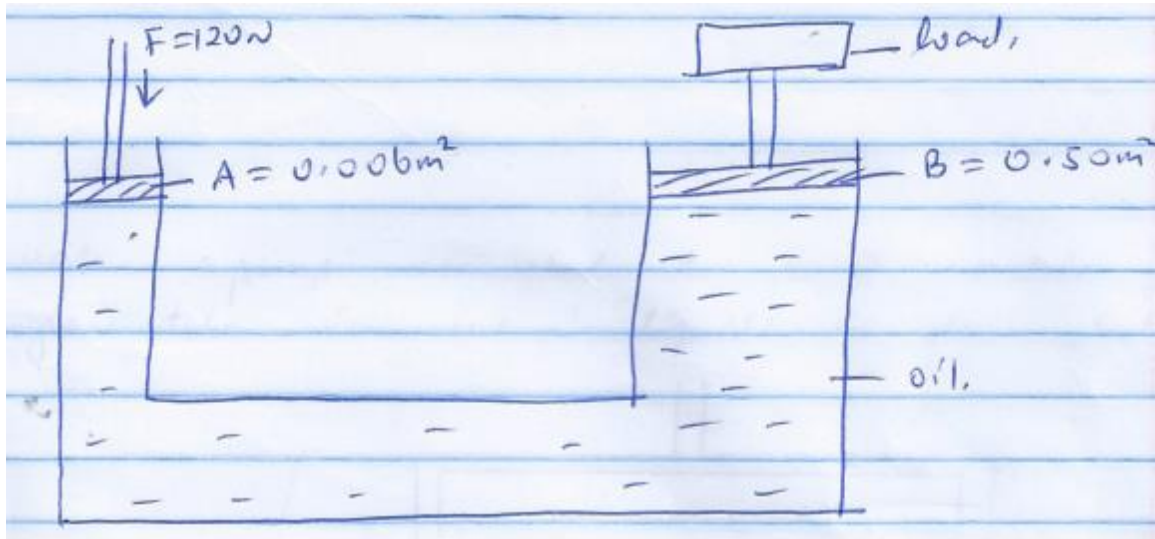
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(b) Figure 5 below shows a simple hydraulic machine used to raise heavy loads.



Calculate

(i) The pressure exerted on the oil by the force applied at A (2mks)

(ii) The load raised at B. (2mks)

(iii) Give two properties which make the oil suitable for use in this machine. (2mks)

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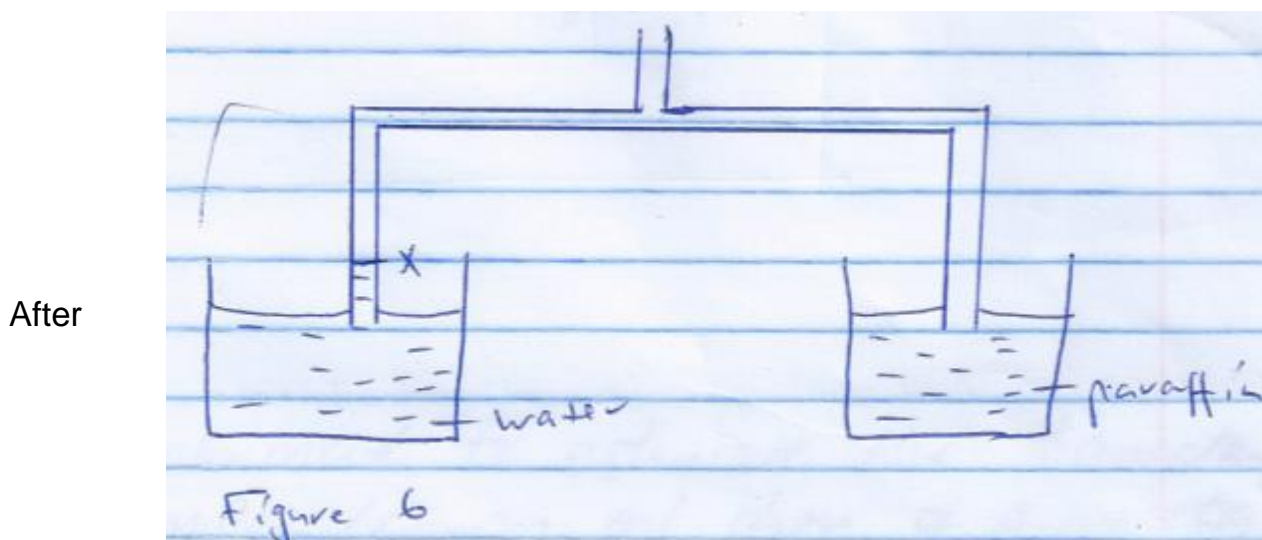
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(d) The height of a mountain is 1360m. The barometer reading at the base of the mountain is 74 cm of mercury. Given that the densities of mercury and air are $13,600 \text{ kg/m}^3$ and 1.25 kg/m^3 respectively, determine the barometer reading at the top of the mountain (3mks)



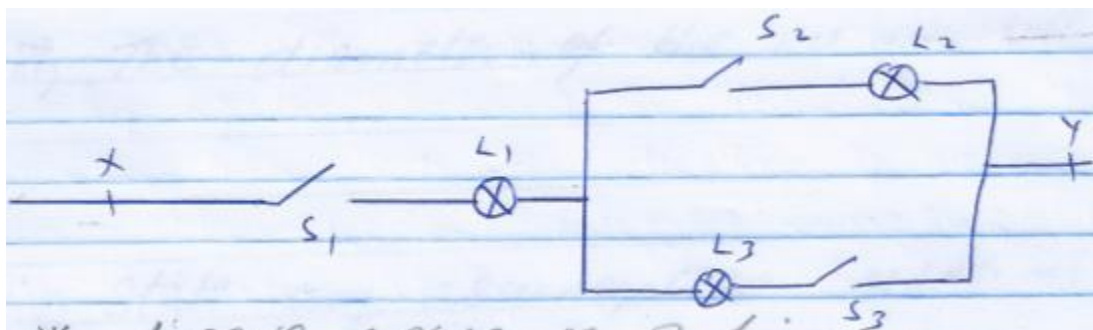
17. A vacuum pump was used to pump out air from the glass tube immersed in liquids as shown below



sometime the level of water rose to position X Mark Y the corresponding position for the paraffin level. Give a reason for your answer. (2mks)

18. Figure 7 below a simple circuit with three switches S1, S2 and S3 and three identical bulbs L1, L2 and L3 connected across X and Y. Compare the brightness of L1 with that of L2 and L3 when all the switches are closed. (1mk)

19. A form none student set up a simple cell using copper and Zinc as the positive and negative terminals respectively. He used dilute sulphuric acid as the electrolyte. When he connected a bulb between the two plates, it only went on for a short while then went off. Explain why? (2mks)



(a) In an experiment to estimate the diameter of an oil molecule, an oil drop of diameter 0.06cm spread over a circular patch whose diameter is 20 cm. Determine.

(i) The volume of the oil drop (2mks)

(ii) The area of the patch covered by the oil (2mks)

(iii) The diameter of the oil molecule (2mks)

(iv) State any assumption made in (iii) above. (1mk)

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20. (a) State the law of magnetism. (1mk)

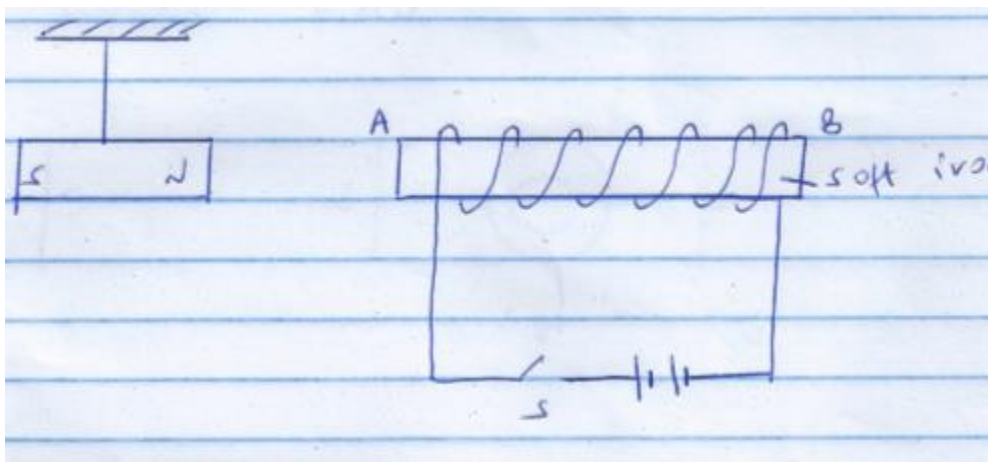
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(b) Figure 8 below shows a bar magnet suspended using a thread and placed close to a circuit as shown below.



(i) State and explain the observation made when the switch, S was closed. (2mks)

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(ii) Why is soft iron preferred as the core of the solenoid? (1mk)

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(c) Sketch a graph of magnetism against magnetizing force for a magnetic material being magnetized. (2mks)

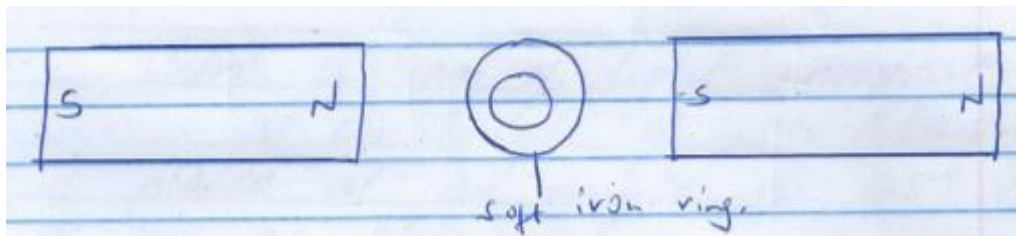
(d) Give a reason why attraction is not regarded as a reliable method of testing for polarity (1mk)

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(c) Figure 9 below shows a soft iron ring placed in a magnetic field.



(i) Sketch the magnetic field pattern between the magnets. (1mk)

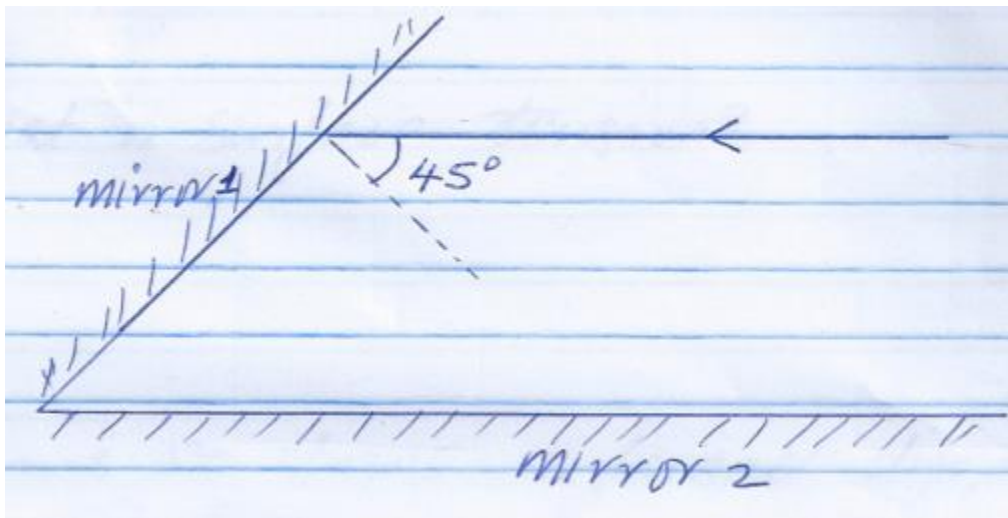


(ii) State one application of the arrangement above. (1mk)

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21. 1800cm^3 of fresh water of density 1000kg/m^3 is mixed with 2200cm^3 of sea water of density 1025kg/m^3 . Calculate the density of the mixture. (3mks)

22. Figure 10 shows a ray of light incident on a mirror at an angle of 45° . Another mirror is placed at an angle of 45° to the first one as shown. (3mks)



23. State two factors that affect stability of an object (2mks)

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24. Explain why a glass container with thick glass walls is more likely to crack than one with a thin wall when a very hot liquid is poured into them. (2mks)

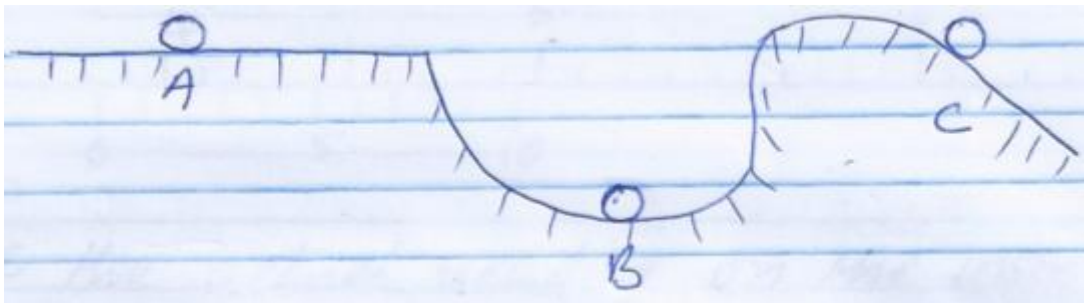
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25. Figure 11 shows spherical balls placed at different positions on a surface. (3mks)



26.

(a) What is surface tension? (2mks)

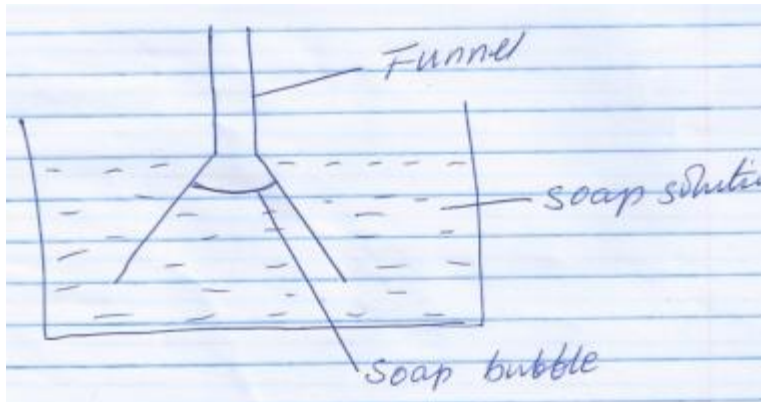
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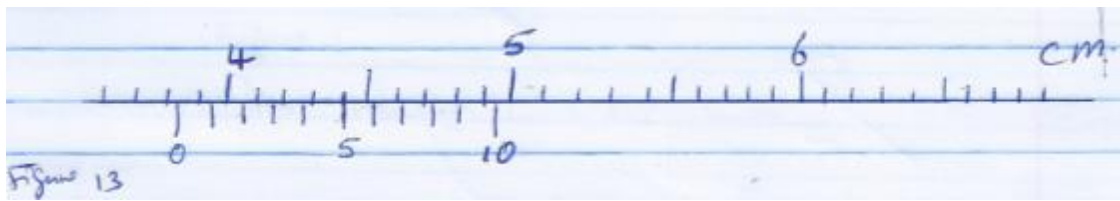
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(b) Figure 12 shows a funnel dipped into soap solution (1mk)



27. The vernier calipers shown below have zero error of -0.11 cm.



State the actual reading on the instrument. (3mks)

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