FORM 2 END TERM 2 SERIES 3

EXAMS

'an investment of knowledge pays'

For marking schemes,prefer calling Mdm Mariam:0746711892

Other available resources are;

- well summarised primary and secondary notes
- F1-F4 termly exams
- primary exams
- KCSE past papers
- KCPE past papers
- Mocks
- lesson plans
- schemes of work

Note:Exam questions are always free of charge

Marking scheme are not free

NAME…….…….. CLASS……..……..……

ADM NO……SIGNATURE……

DATE……..

FORM 2 END TERM 2 SERIES 3 EXAMS

AGRICULTURE

TIME 2HRS

Instructions to candidates

- ✓ Write your name and admission in the spaces provided
- ✓ The paper consists of three sections A B and C
- ✓ Answer all the questions in section A, B and C
- ✓ Answer all the questions in English

For examiner use only

Section	Questions	Max score	Candidates score
A	**1-15**	**40**	
B	**16-21**	**30**	
C	**22-24**	**30**	
TOTAL SCORES		**100**	

SECTION A (40MKS)

Answer all the question in the spaces provided

1.Distinguish between the following

a. Olericulture and aquaculture **(1mk)**

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b. mixed cropping and inter cropping **(1mk)**

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2.State ***three*** factors that influence agriculture positivity **(3mks)**

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3.State the advantages for carrying out leveling as a tertiary operation **(3mks)**

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4. Give factors that influence the number of secondary cultivations seedbed preparation **(2mks)**

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5.State ***four*** environmental factors in Kenya **(3mks)**

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6.State ***four*** qualities for parent plant which rootstock is obtained for grafting. **(3mks)**

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7.Give ***four*** reasons why burning of land is discouraged as a method of land clearing **(3mks)**

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8.State ***four*** disadvantages of broadcasting seeds during planting **(3mks)**

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9.Outline ***four*** ideal characteristics of a dairy goat. **(3mks)**

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10.Give methods of modifying soil Ph. **(4mks)**

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11. Describe signs of good health in farm animals under the following

i.Movement **(½mk)**

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ii. Urine **(½mk)**

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iii.Mucus membrane **(½mk)**

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iv.Posture **(½mk)**

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12. Name ***four*** tools must always be used together. **(3mks)**

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13. Highlight ***four*** records you would advise a poultry farmer to keep. **(2mk)**

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14.Give ***four*** maintenance practices carried out on saws. **(2mk)**

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15. Differentiate between a nursery bed and a seedling bed. **(1mk)**

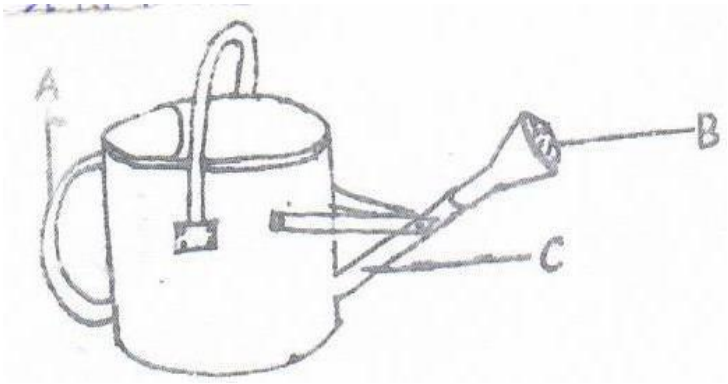
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SECTION B

Answer all the question in the spaces provided

16. Study the illustration below and answer the questions that follow.



a. Identify the equipment **(1mk)**

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

A

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B

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C

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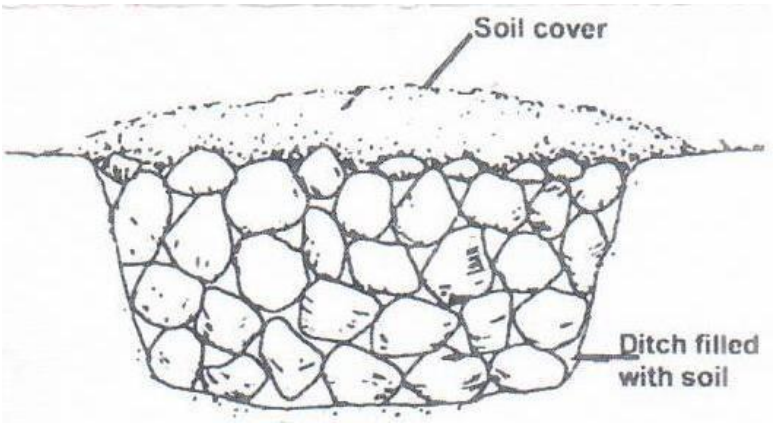
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c. Give ***one*** use of the above equipment **(1mk)**

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17. Below is a diagram showing a method of drainage, use it to answer the questions that follows.



a. Identify the above method of the method of drainage **(1mk)**

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b. State ***one*** advantage of the methods of drainage. **(1mk)**

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c. Outline ***three*** importance's of drainage as a method of land reclamation **(3mks)**

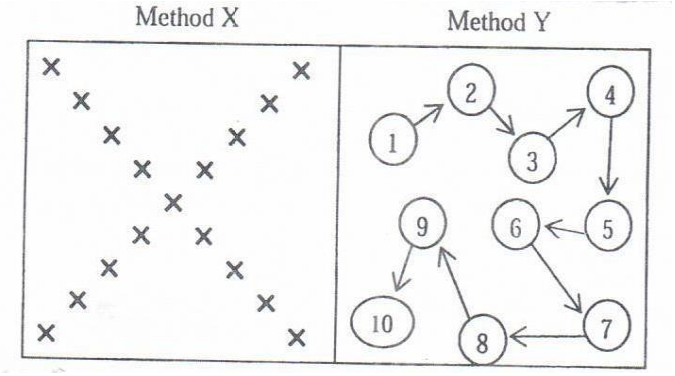
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18. **a**. Identify the methods of sampling down below



a. Give ***two*** reasons that should be avoided during soil sampling **(2mks)**

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c. Name ***two*** sites that should be avoided during soil sampling **(2mks)**

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19. A farmer applied 200 kgs for CAN (20%) per Hecate maize crop. Calculate the amount of nitrogen applied on his structure crop.

Show your workings **(4mks)**

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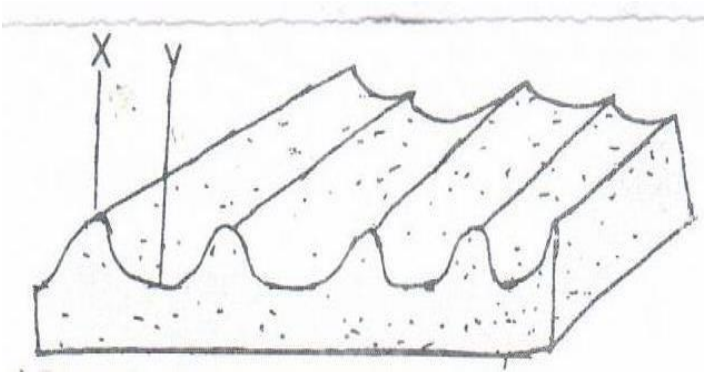
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20. The diagram below shows a territory operation carried out on a seedbed.



a. Identify the operation **(1mk)**

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b. Name the parts labeled X and Y on the diagram **(2mks)**

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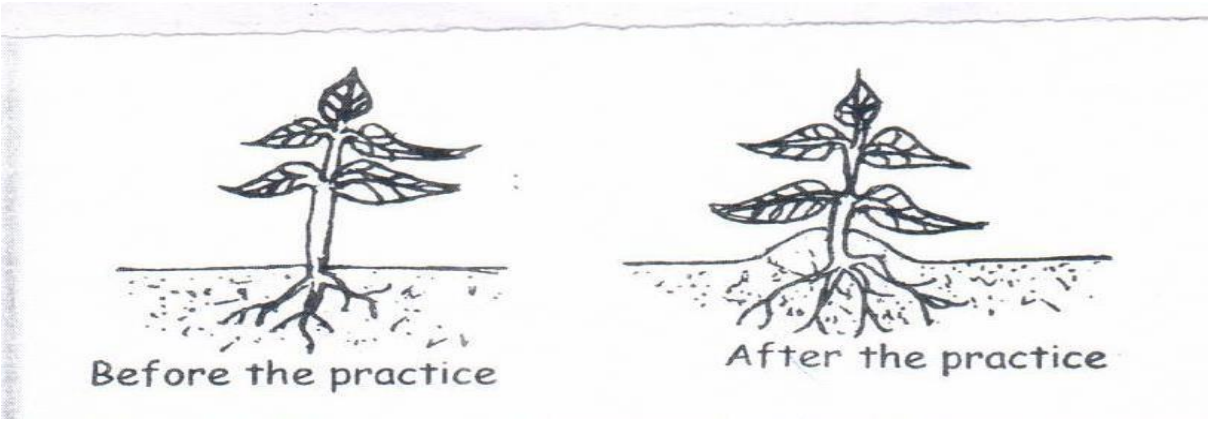
c. State ***<u>two</u>*** importance of the operation name in (a) above **(2mks)**

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21. The diagram represents a field produce. Use it to answer the questions that follow.



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

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b. give a reason for carrying out the above practice on the following crops

- Irish potatoes

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- Ground nuts

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- Tobacco

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- Maize

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(3 x 1 =3mks)

SECTION C (30MKS)

Answer all the question in the spaces provided

22.a i. Give three types of nursery beds used in raising seedlings **(3mks)**

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b. ii. Give ***two*** reasons for construction a shade over nursery **(2mks)**

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iii. Describe factors that should be considered when siting a vegetable nursery **(5mks)**

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b. Name any three methods of layering used in crop propagation **(3mks)**

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c. Name two methods of fertilizer applications **(2mks)**

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23. Name ***four*** biotic factors that affect agriculture and for each state one effect on Agriculture **(8mks)**

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24. Describe production of cabbages under the following subheadings.

a. Land preparation **(3mks)**

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b, Field management practices **(6mks)**

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FORM 2 END TERM 2 SERIES 3 EXAMS

BIOLOGY

2 HOURS

INSTRUCTIONS TO CANDIDATES

- Write your name and admission Number in the spaces provided above.
- Sign and write date of examination in the spaces provided above.
- Answer **ALL** questions in the spaces provided.
- All workings **must** be clearly shown where necessary.

Answer all questions

1. State the importance of the following in a living organism

(a) Locomotion. **(2marks)**

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(b) Respiration **(1mark)**

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2. Name the cell organelles which would be abundant in **(2marks)**

(a) Sperm cell

……

……

(b) Pancreas.

……

……

3. State the functions of the following in the heart. **(1mk)**

(a) Sino Atrio Node (SAN)

……

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(b) Interventricular septum

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……

4. Name ***two*** antigens that determine human blood groups. **(2 marks)**

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5. a) Explain why blood group O is a universal donor. **(1 mark)**

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(b) i) Name the blood vessel that links arterioles to venules. **(1 mark)**

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……

ii) What is the adaptive advantage of arteries having a narrower lumen? **(1 mark)**

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6. (a) Name the tissues that transport water in plants. **(1mk)**

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……

(b) State why the tissue above is said to be dead. **(1mk)**

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7. The diameter field of view of a light microscopic is 6.5mm. Plant cells lying across the diameter are 12.Determine the size of one cell in micrometers. **(2 marks)**

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8. State ***two*** adaptations of the phloem tissue. **(2 marks)**

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9. Name the process that results to formation of tissue fluid. **(1mk)**

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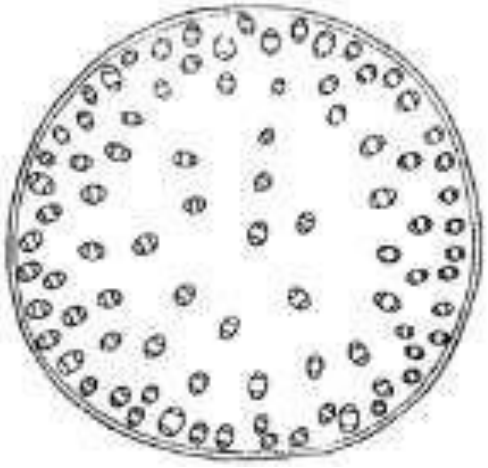
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10. What is serum? **(1mks)**

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11. The diagram below shows a transverse section of a plant organ.



a) Name the class to which the plant organ was obtained. **(1mark)**

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b) Give a reason for your answer in (a) above. **(1mark)**

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12.a) Which component of the blood gives the body immunity? **(1 mark)**

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……

(b) Distinguish between natural and acquired immunity. **(2 marks)**

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13.(a) Define the term excretion **(1mk)**

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(b) In what state is water excreted in man? **(1mks)**

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(c) Why do plants not excrete salts in their excretory products **(1mk)**

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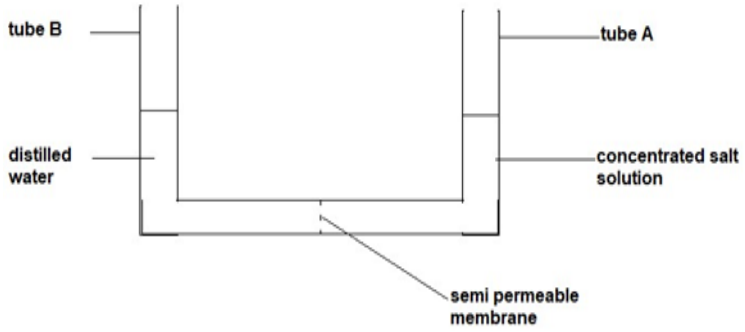
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14. Under what conditions does a green plant excrete oxygen? **(1mks)**

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15. Study the diagram below and answer the questions that follows



The experimental set up was left for 8 hours

(i) Using your biological knowledge, show the level of fluids after 8 hours **(2 marks)**

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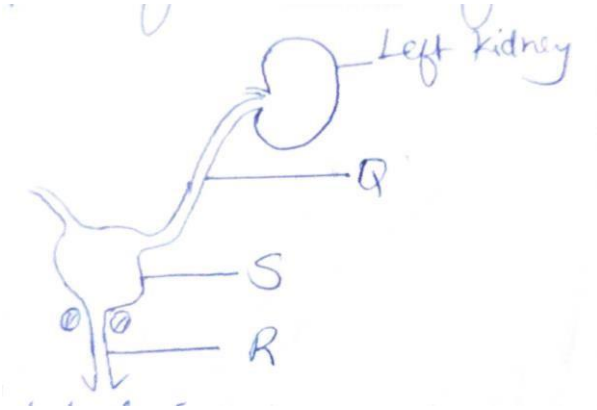
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(ii) Which process was being investigated in the experiment? **(1 mark)**

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16. Study the diagram of excretory system in man and answer the questions that follows



(i) Name parts labeled **(2 marks)**

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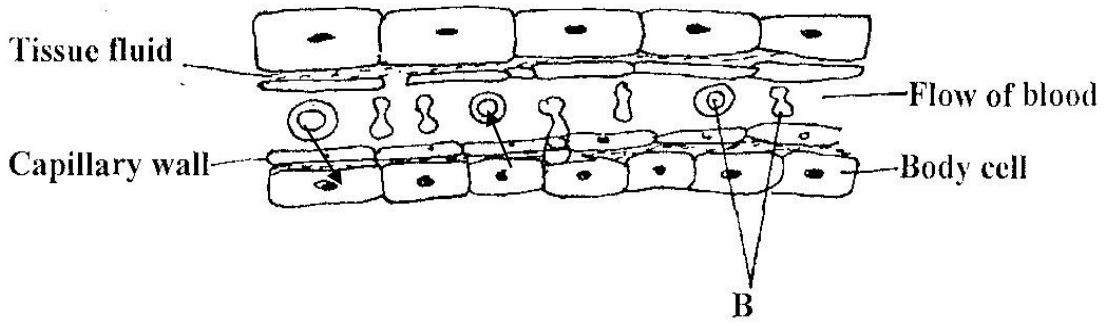
(ii) What is the function of the part labeled S ? **(2 marks)**

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17. The diagram below shows gaseous exchange in tissues.



a)Name the gas that diffuses:

i)To the body cells **(1mk)**

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ii) From the body cells **(1mk)**

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b) name cell labeled B (**1mk)**

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c)Which compound dissociates to release the gas named in (a) (i) above? **(1mk).**

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18.Other than carbon (IV)oxide, name other products of anaerobic respiration in plants (**2mks)**

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19. (a) Name ***one*** structures for gaseous exchange in amphibians**.** **(2mks)**

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(b) What is the effect of relaxation of diaphragm muscles during breathing in mammals. **(3mks)**

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20. Sate ***two*** ways in which respiratory surfaces adapted to their function? **(2mks)**

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21. Study the equation below and then answers the questions that follow.

$C_6H_{12}O_6 \longrightarrow$ L+ Energy

a) Name the process represented by the above equation **(1mk)**

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b) Identify substance L **(1mk)**

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c) Where in the cell does the above reaction take place**?** **(1mk)**

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d) Name the form in which energy is stored in the body of living organism. **(1mk)**

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22. The oxidation of a certain fat is represented by chemical equation shown below.

$C_{57}H_{104}O_6 + 80\ O_2 \rightarrow 57CO_2 + 52H_2O$ + Energy

a) Calculate the respiratory quotient (RQ) of the fat **(2marks)**

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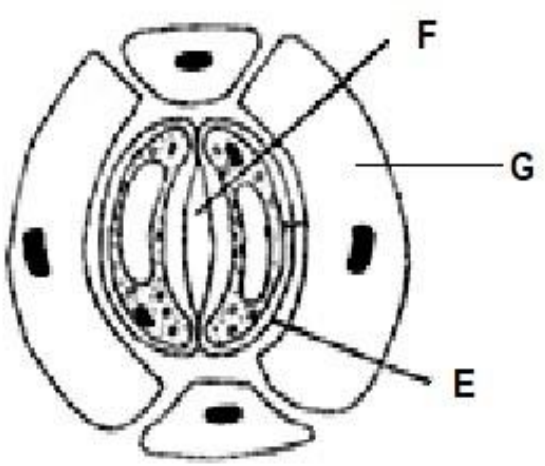
b) What is the significance of RQ? **(2marks)**

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23.The diagram below represents part of epidermis of a leaf



a) Name the parts marked F and G **(2 marks)**

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b) State ***<u>two</u>*** aspects of cell E that are an adaptation to its function. **(2 marks)**

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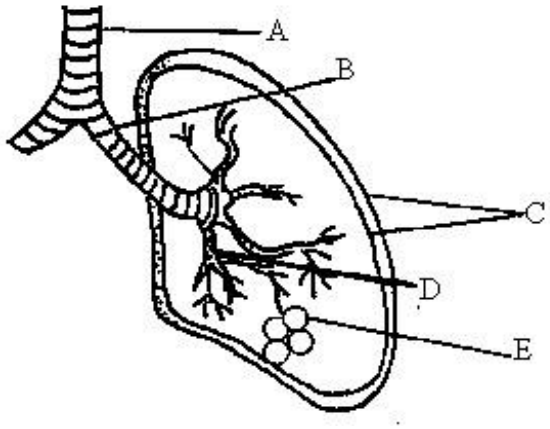
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c) Describe the changes that would take place in E if the cells were placed in concentrated sugar solution for a long period. **(3 marks)**

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



a). Name the parts labelled A, B and C **(3 marks)**

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b) State the function of the fluid found in between the parts marked C. **(1mark)**

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c) How is the part labelled E adapted to its function. **(4 marks)**

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d) State the significance of rings of cartilage found around the part marked A and B. **(1mark)**

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25.A student found a skull of an animal in the neighborhood of their school. The upper jaw had 4 incissors,2 canines, 6 premolars and 6 premolars and 6 molars

(a) Using the information provided write down the dental formula of the animal **(1 marks)**

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(b) Give ***two*** ways in which incisor differ from a premolar**?** **(2 marks)**

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(c) Amylase is an enzyme in the alimentary canal. identify two juices that contains that enzyme **(2 marks)**

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26.a) Explain ***three*** ways in which a red blood cell is adapted to its functions. **(3mks)**

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(b) In which form is carbon (IV) oxide transported? **(2mks)**

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28. How is the mammalian heart adapted to its functions**?** **(20mks)**

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NAME……..…….... CLASS……..……

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DATE……..

FORM 2 END TERM 2 SERIES 3 EXAMS

BUSINESS STUDIES

TIME: 2 HOURS

INSTRUCTIONS:

Answer all questions in the spaces provided

1. Highlight ***four*** components of business studies. **(4 marks)**
   - **a) ……..……..**
   - **b) ……..……..……..**
   - **c) ……..……..**
   - **d) ……..……..**
2. State ***four*** essentials of a warehouse. **(4 marks)**
   - **a) ……..……..**
   - **b) ……..……..**
   - **c) ……..……..**
   - **d) ……..……..**
3. Highlight ***four*** small scale retail businesses with shops. **(4 marks)**
   - **a) ……..……..**
   - **b) ……..……..**
   - **c) ……..……..**
   - **d) ……..……..**
4. State ***four*** characteristics of economic resources. **(4 marks)**
   - **a) ……..……..…….**
   - **b) ……..……..…….**

c) ……..……..…….

d) ……..……..…….

5. Outline ***four*** circumstances under which verbal communication would be preferred. (**4 marks)**

a) ……..…….

b) ……..……..……..…….

c) ……..……..……..…….

d) ……..……..…….

6. Identify the type of utility created in the following circumstances. **(4 marks)**

a) Processing and packing tea leaves in a factory ……..……..……..

b) Transporting tea from Kiambu to Nairobi…….

c) Selling tea leaves in a shop……

d) Where the retailers store tea leaves packets in his warehouse……..……..……

7. Outline ***four*** importance of filing in a business. **(4 marks)**

a) ……..…….

b) ……..…….

c) ……..…….

d) ……..…….

8. State the documents that should be submitted to the registrar of companies for the purposes of registering a public limited company. **(4 marks)**

a) …….

b) ……..……..

c) ……..

d) ……..

9. Outline ***four*** circumstances in which the government may be involved in business**.** **(4 marks)**

a) ……..

b) ……..……..

c) ……..……..

d) ……..……..

10. State ***four*** types of complaints that a consumer organisation may receive from consumers. **(4 marks)**

a) ……..……..

b) ……..……..……..……..

c) ……..

d) ……..

11. State ***four*** internal factors that may influence a matatu business**.** **(4 marks)**

a) ……..……..

b) ……..……..

c) ……..……..

d) ……..……..

12. Classify each of the following resources as renewable or non- renewable. **(4 marks)**

a) Silk**……..……...**

b) Vehicle**……..……..……**

c) Natural gas **……..……..**

d) Gravel **……..……..……..**

13. Outline ***four*** activities that are carried out in the Nairobi securities exchange**.** **(4 marks)**

a) ……..……..……..

b) ……..……..

c) ……..……..

d) ……..……..

14. Name the types of warehouses associated with each of the following statements given below.**(4 marks)**

Statements	**Type of warehouse**
a) Goods can be stored before payment of custom duty	
b) Individuals can hire storage facilities	
c) Goods stored are from several manufacturers	
d) Specialised goods are stored	

15. Outline ***four*** circumstances why a credit note is issued to a trader. **(4 marks)**

a) ……..……..

b) ……..……..

c) ……..……..

d) ……..……..

16. State ***four*** factors that should be considered when buying an office machine or equipment. **(4 marks)**

a) ……..……..

b) ……..……..

c) ……..……..

d) ……..……..

17. Highlight ***four*** mailing services that facilitate communication. **(4 marks)**

a) …….

b) …….

c) …….

d) …….

18. Outline ***four*** ways production activities may negatively impact on community health**.** **(4 marks)**

a) ……..……..

b) ……..……..

c) ……..……..

d) ……..……..

19. Highlight ***four*** features of public corporations**.** **(4 marks)**

a) ……..……..

b) ……..……..

c) ……..……..

d) ……..……..

20. Outline ***four*** ways in which political stability in a country is of benefit to business. **(4 marks)**

a) ……..……...

b) ……..……..

c) ……..……..……..

d) ……..

21. Explain ***five*** factors that may limit the usage of railway as a means of transport. **(10 marks)**

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22. Explain ***five*** characteristics of an entrepreneur. **(10 marks)**

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NAME…….……... CLASS……..…… ADM

NO……SIGNATURE……

DATE……..

FORM 2 END TERM 2 SERIES 3 EXAMS

CHEMISTRY
FORM 2

TIME: 2 HOURS

INSTRUCTIONS TO STUDENTS

1.Answer all questions in this question paper.

2.All your answers must be written in the spaces provided in this question paper.

Question	Maximum score	Candidates score
1-15	**70**	

1. Define the following terms:

(i) Atomic Number **(1mk)**

……

……

(ii) Mass Number **(1mk)**

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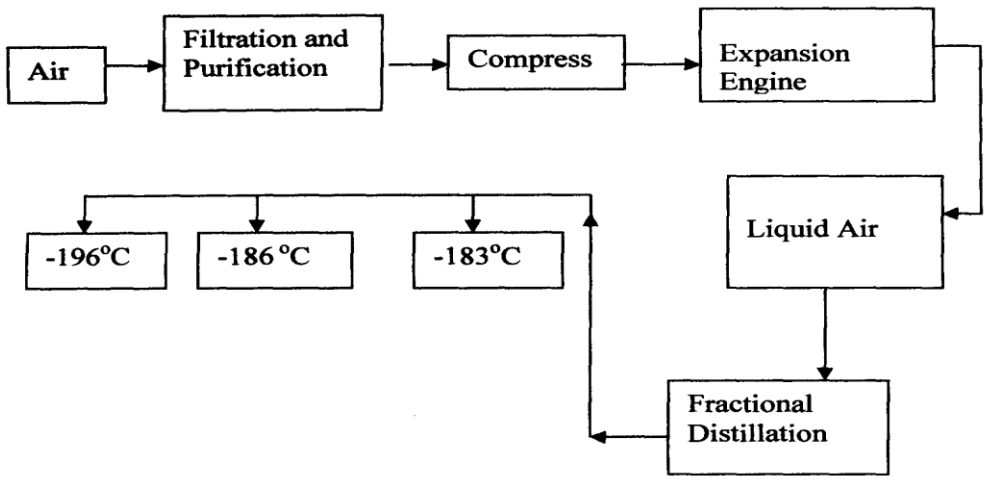
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(iii) The Isotopes **(1mk)**

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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)**

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……

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

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……

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

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……

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

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……

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

Substance		A	B	C	D	E	F
Melting Point (^oC)		801	113 OR 119	-39	5	-101	1356
Boiling point (^oC)		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)**

……

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……

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

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4. Atoms of element X exists as $^{14}_{6}X$ and $^{12}_{6}X$

(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 $^{14}_{6}X$ **(2mks)**

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

6 . Define the following terms:

i)A saturated solution. **(1mk)**

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……

ii)Crystallization. **(1mk)**

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……

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)**

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

……

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

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9. Write the chemical fomular of the following compounds. **(3mks)**

(i) Sodium sulphate

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(ii) Magnesium hydroxide

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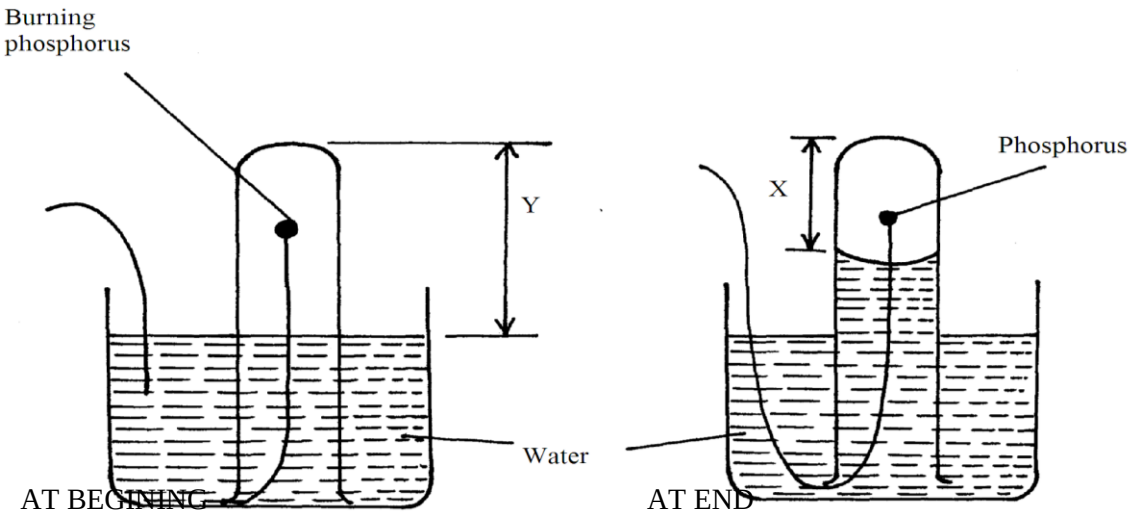
(iii) Calcium nitrate.

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……

10. State the reasons why carbon (iv) oxide is used by ice cream venders instead of ordinary ice. **(2mks)**

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



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

……

……

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

$$\frac{y-x}{y} x100\%$$

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

……

……

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

……

……

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

(3mks)

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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)

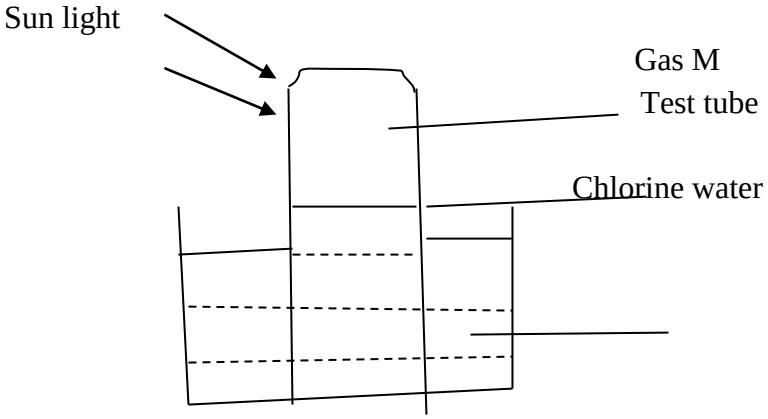
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14. In an experiment, a test tube of chlorine gas was inverted in water as shown in the diagram. It was then left to stand in sunlight for one day.



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)**

……

……

.

(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). Thecolour of chlorine water was observed to have changed from pale yellow to colourless 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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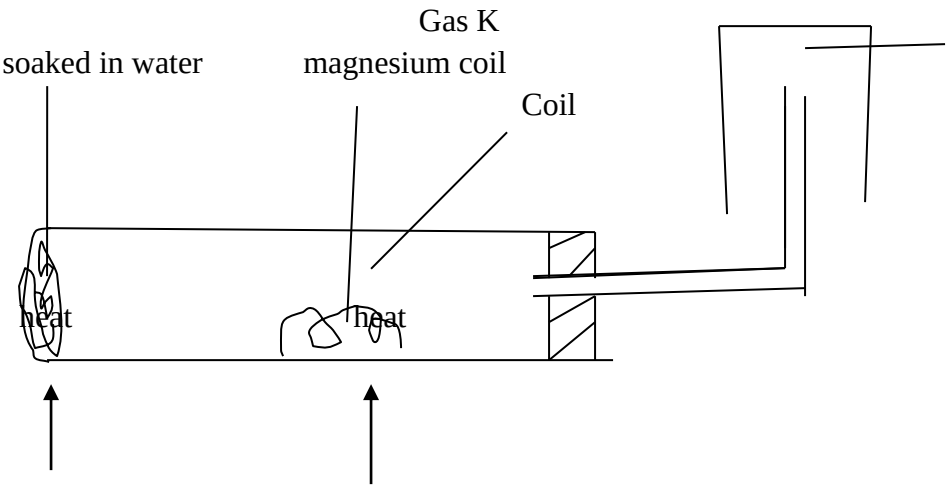
(vii). Give ***<u>two</u>*** uses of chlorine gas. **(2mks)**

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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)**

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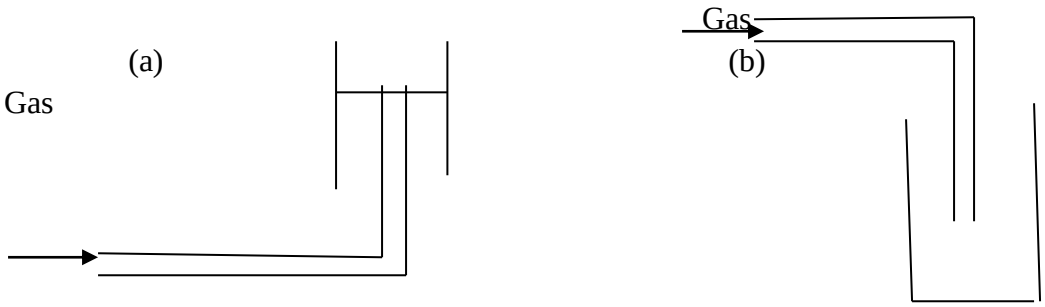
(c).what property of gas K makes it possible to be collected by the method shown? **(1mk)**

……

(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)**

……

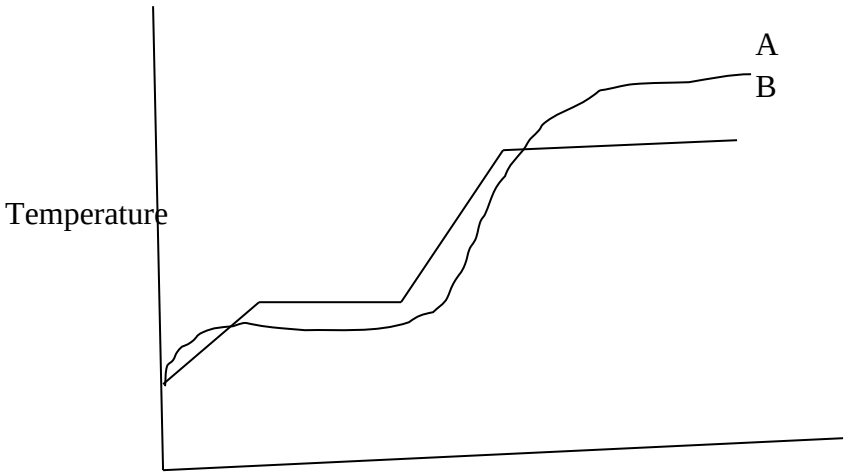
……

(ii). Which method is suitable for collecting dry carbon (IV) oxide gas? Give a reason. **(2mks)**

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

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……

(ii). 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)**

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NAME…….…….. CLASS…….…… ADM

NO……SIGNATURE……

DATE……..

FORM 2 END TERM 2 SERIES 3 EXAMS

COMPUTER STUDIES(THEORY)
TIME: 2HOURS

Answer all questions provided

1. a) What is a computer laboratory? **[2mks]**

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…..……...……

b)State ***four*** possible causes of fire outbreak in a computer laboratory. [**4mks]**

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…..……...……

c)What actions should be taken in case of a fire outbreak in the computer laboratory? **[4mks]**

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…..……...……

2. List four differences between a micro computer and a supercomputer. **[4mks]**

Microcomputer	*Super computer*

3. State four benefits of using a computer in a school library. **[4mks]**

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4. Describe each of the following types of computers. **[4mks]**

Hybrid

……

……

Embedded

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5. a) List four types of keys found on a computer keyboard. Give an example of each. **[4mks]**

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b)i) Explain the term toggle keys as used in a computer keyboard. **[2mks]**

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ii) List four examples of toggle keys on a computer keyboard. **[2mks]**

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6. State ***three*** functions of Un-interrupted power supply. **[3mks]**

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7. A computer laboratory experiences power supply problems. Describe three power related problems that

should be addressed. **[6mks]**

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8. Explain ***two*** types of storage devices used in a computer giving an example of each. **[4mks]**

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9.i) List four differences between a laser printer and a dot matrix printer. **[4mks]**

Laser printer	*Dot matrix printer*

10. ii) Students enjoy noisy computer games.

a) Which ***two*** hardware devices are needed to produce sound and one input device for playing games?

[3mks]

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b) Apart from mouse, name four input devices connected to a computer. **[4mks]**

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c) List four factors to be considered when acquiring a printer. **[4mks]**

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11. Write each of the following acronyms in full as used in computing. **[4mks]**

a) CAD

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b) DVD

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c) WORM

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d) POS

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12. State one function for each of the following elements of a computer system. **[6mks]**

a) Hardware

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b) Software

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c) Liveware

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13. List the ***four*** categories of system software. **[4mks]**

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

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15. Explain ***three*** features of a graphical user interface as used in computers. **[6mks]**

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16. State ***four*** advantages of word processors over manual typewriter. **[4mks]**

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

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18. A student typed a letter in a word processor and the last line of the letter flowed to the second page. State four ways in which the student could have adjusted the letter to fit on one page without changing the paper size.

[4mks]

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19. State the function of the following key combination. **[6mks]**

CTRL+ O

……

……

CTRL + E

……

……

CTRL + C

……

……

CTRL + N

……

……

CTRL + A

……

……

CTRL + B

……

……

NAME…….…….... CLASS…….…… ADM N

O……SIGNATURE……

DATE……..

FORM 2 END TERM 2 SERIES 3 EXAMS

CHRISTIAN RELIGIOUS EDUCATION

TIME: 2 HOURS 30 MINUTES

INSTRUCTIONS:

1. *Answer all questions*
2. *All answers must be written in English*

Answer all the questions provided

1. Give ***six*** reasons why the Bible is referred to as a word of God.. **(6mks)**

2. Explain ***six*** ways in which Abraham demonstrated his faith in God. **(6mks)**

3. Give ***seven*** reasons why Moses was reluctant to go back to Egypt . **(7mks)**

4. State ***five*** ways in which Christians show respect to God. **(5mks)**

5. State ***six*** forms of corruption that Elijah would condemn in Kenya today **(6mks)**

6. Identify ***six*** activities of King Jeroboam that made Israelites to turn away from God **(6mks)**

7. Outline Micah's prophecies about the Messiah **(5mks)**

8. Relate Mary's visit to Elizabeth (Lk. 1:39-45) **(8mks)**

9. Explain ***six*** ways in which the birth and life of Jesus was to be extra ordinary **(6mks)**

10. With reference to the incident when Jesus was dedicated to God at the age of eight days, outline what Simeon and Anna revealed about his life **(6mks)**

11. Explain ***six*** differences between the work of John the Baptist and that of Jesus Christ **(6mks)**

12. Give ***six*** reasons why Jesus was tempted **(6mks)**

13. Narrate the healing of the man with an evil spirit (Luke 4:31-37) **(8mks)**

14. Give ***six*** lessons Christian learn about the nature of Jesus from the incident He cast out demons from the evil possessed man in Capernaum **(5mks)**

15. State ***six*** reasons why Jesus was rejected at Nazareth his home town (Luke 4:16-30**)** **(6mks)**

16. Outline ***seven*** reasons why Jesus accepted to be baptized yet He was sinless **(7mks)**

NAME……..…….... CLASS…….…… ADM NO……SIGNATURE……

DATE……..

FORM 2 END TERM 2 SERIES 3 EXAMS

ENGLISH EXAM
TIME:2HOURS

INSTRUCTIONS TO STUDENTS

1. Answer all questions in this question paper.
2. All your answers must be written in the spaces provided in this question paper.

FOR EXAMINER'S USE ONLY

Question	Maximum Score	Score
1. Functional writing	20	
2. Cloze test	10	
3. Comprehension	20	
4. Poetry	15	
5. Oral skills	15	
6. Grammar	20	
	100	

1. FUNCTIONAL WRITING (20mks)

You have just reported back to school after half-term break. You are not allowed to have mobile phones in school. At the gate, the deputy principal discovers a mobile phone in your bag and demands an explanation. Write a letter of apology addressed to the deputy principal over the incident.

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2. CLOZE TEST (10MKS)

Fill in the blank spaces with the most appropriate word.

'I am done! I am done!' my voice echoed in the forest. I wept aimlessly. I did _____1_____ know whether I was weeping because my friend was dying _____3_____ because I had very little hope of _____2_____ the next sunrise. _____4_____ fell like a heavy _____5_____ covering the whole country around us. A hyena, which was apparently watching _____6_____helplessness, made a noise which sounded like a hoarse laughter. _____7_____ frightened me so much that I could hear my own _____8_____ beating. I shouted as _____9_____ as my empty stomach would allow me and the _____10_____ ran to the forest. From that day to this, when iam telling this story, I have never been confronted by such a problem.

3. COMPREHENSION (20 MKS)

Read the passage below and answer the questions that follow

TATII'S PROBLEMS

She has lived a state of uncertainty since 1982. Her life has been dreary and full of disappointments. Her parents have been strict and demanding. She has not had time to visit her friends and cousins living upcountry. Every time, she has asked her parents to let her go and pay a visit to her friends, they have said, "You cannot go to visit your friends until you have finished your studies. Life had become very difficult in this country because of too many jobless young people. The situation has been made worse by the great number of examinations failures. No daughter of ours is going to be like these unemployed people. So you see, Tatii, you cannot go upcountry until your 'O' levels are over.

It has been like that for the past four years. Her life has been that of a zombie. She has listened to her mother's sighs and her father's preaching. The 'O' level results are out and her parents won't believe that she has not passed.

What is she going to tell them? She had hoped to please her parents by securing entrance to the university, but all is now lost. Yes nearly lost. All would have been lost if Mrs. Ngueso, the school career teacher, hadn't been called in to calm down Tatii and advise her parents.

Poor Mrs. Ngueso! She has had quite a task to save Tatii from her harsh parents. Tatii's father has been the most difficult one to convince that Tatii is not the only girl who has failed her 'O' level examinations. As soon as he had seen Mrs Ngueso, he had started complaining that teachers no longer caned the children to make them work hard enough to pass their examinations. at some point in his discussion with Mrs. Ngueso, Tatii's father had nearly lost his temper. But Mrs. Ngueso had been his match! She had braved his sour looks and insisted that it was Tatii they had met to discuss and not just any other school child.

She said, Tatii has worked well, but I has constantly appeared as if she has lacked the social support she needed to succeed. Tatii is a very girl but she has been very unhappy. Particularly lately. Sir, the girl needed moral support from you, her parents, as well as from school. The school can give some moral support and the academic support a child needs. But most of all the parents have always been expected to encourage

their children in the most crucial moments of their life. May be you and to some extent the school, owe Tatii some assistance.

Now Tatii's mother spoke for the first time. "Baba Tatii, let us do as Mrs. Ngueso says. The child has been very unhappy. I haven't told you this but since the appearance of the examination results I have lived in fear. Tatii has behaved very strangely at times. Her friends have reported that she was planning to run away from home. Please let us give her a second chance"

Tatii's father turned and looked at his wife for the first time since Mrs. Ngueso's arrival. He saw in her pleading eyes the pain of a loving mother. He quickly looked away. At that moment he realized how very blind he had been to his wife and daughters suffering. He rose to leave, turned and extended his hand to Mrs. Ngueso and said, ;Thank you very much, mwalimu. Tatii will be in school at the beginning of term. Then he left the room.

a) Why does the author describe Tatii's life as having been dreary? **(1mk)**

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b) What excuse have Tatii parents constantly given for not allowing her to visit her relatives and friends. **(2mk)**

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c) Why was Tatii so unhappy after the results of the examinations came out. **(1mk)**

……

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d) What was Tatii's father reactions to her results? **(1mk)**

……

……

e) State the reasons Mrs. Ngueso gives for Tatii's problems **(2mks)**

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……

……

f) What evidence is there in the passage to show that Tatii's mother was more understanding than the father

……

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……

……

g) Describe one character trait of the following with evidence from the passage
(4mks) i) Mrs Ngueso

……

……

……

……

ii)Tatii's father

……

……

……

h)Explain the meaning of the following words and phrases as used in the passage **(6mks)**

i)Dreary……..……..

ii) Demanding……..……..

iii) Zombie……..……..

iv) Securing

entrance……..……..

v)Harsh……..……..

vi)Braved……..…….

4.POETRY(15MKS)

I LOVE YOU MY GENTLE ONE

I love you, my gentle one,

My love is the fresh milk in the rubindi

Which you drank on the wedding day; My
love is the butter we were smeared with To
seal fidelity into our hearts.
You are the cattlebird's egg.
For those who saw you are wealthy,
You are the papyrus reed of the lake,
Which they pull out with both hands.
I sing for you with tears Because
you posses my heart:
I love you, my gentle.

QUESTIONS

a. Who is the persona in the poem? **(2 mark)**

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……

……

b. What is the poem about? **(2 mark)**

……

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c. Identify and illustrate any **two** stylistic devices used in the poem. **(4 marks)**

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d. Explain the meaning of the following lines.

(i) 'those who saw you are wealthy' **(1 mark)**

……

……

(i) 'to seal fidelity into our hearts' **(1 mark)**

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……

e. Comment on the mood of the poem **(2 marks)**

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……

f. Change the following sentence into the interrogative form. **(1mk)** I sing for you with tears.

……

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……

g.Do you think the title is suitable to the poem? Why? **(2 marks)**

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……

5. ORAL SKILLS (15MKS)

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

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, is 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!
Questions.

a) i) Identify ***two*** pairs of rhyming words. **(2mks)**

……

……

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ii) Which words would you stress in line 7 of this poem? **(2mks)**

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……

iv) You are performing this poem to your classmates. How would you know that they are not

concentrating? **(2mks)**

i) ……..……...……

ii) ……..……..……...……

b) Identify the shortcomings in Nyasuguta's telephone skills in the following conversation.

Nyasuguta: (Dialing a number) Is that Turbo wholesalers?
Voice 1: Sorry, wrong number
Nyasuguta: (Tries several other numbers unsuccessfully and eventually gets it right) Is that Turbo wholesalers?
Voice2: Yes it is. Can I help you?
Nyasuguta: I want to order Maize flour.
Voice 2: How many bales, Madam?
Nyasuguta: Just a minute (turns from the phone and asks her husband how many bags they need). Ten bales.
Voice 2: Any preference in the brand?
Nyasuguta: Of course! Everybody goes for pembe brand.
Voice 2: Anything else, Madam?
Nyasuguta: No. But I want them delivered
Voice 2: When and what address?
Nyasuguta: Before too long to shop number eight, Musembe shopping centre.
Voice 2: Pardon, what was the number again?
Nyasuguta: (Impatiently and shouting) 8-9-5
Voice 2:

a)We will deliver them in an hours time. Thank you Madam. It has been a pleasure doing business with you. **(2mks)**

i) …..……...……..……

ii) …..……...……..……

c) Identify instances of etiquette as used by voice 1 and 2 **(2mks)**

i)…..……...……..……

ii) …..……...……..……

d) Identify the silent letter / sound in each of the following words. **(3mks) i)**
Fracas –

……...……..……

……..……

ii) Bomb –

……...……..……

……..……

iii) feign-

……..……..……

……..……

e) In the following sets of words identify the odd one out according to the underlined sound **(2 mks)**
i)Choir chord chore

……..……..……

……..……

ii) Chef chain chores

……..……..……

……..……

6.GRAMMAR (20MARKS)

a) Fill in the gaps with the correct, verb. **(3 marks)**

i)The news..... *were/was* read by Hussein.

ii) They ..... *likes/like* mangoes

iii) Chaos..... *is/are* what I hate.

b)Form abstract nouns from the following:- **(4mks)**

i) Infant……..……..……..……..……

ii) Coward……..……..……..……....……....……

iii) High……..……..……..……..……..……

iv) Just-……..……..……..……

c)Fill in the blank spaces with the most appropriate word. **(4mks)**

i)Please write your name.....this receipt.

ii) No one is allowed to vote in election unless he is.....age.

iii).....all,remember to wake up at six.

iv)"I forbid you.....going there again!" Otieno's mother said.

d)Underline the correct alternative in the following sentences. **(4marks)**

i)Abdi sits beside/besides Henry in class.

ii) Jane appreciated the advice/advise she was given by her teacher.

iii) The lose/loose nut on Mr. Rashid's car is making a lot of noise.

iv) He admires the furniture/furnitures in my room.

e) Choose the correct pronoun from those given in brackets to complete the following sentences. **(2 marks)**

i)When we asked *(they/them)* what was wrong they referred us to her.

……...……..……

ii) The teacher gave Ahmed and *(I/me)* an apple

……...……..……

f)Use *a, an or the* to fill in the blanks in the following sentences where necessary. (3 marks)

i)I saw**.....** Ugandan

ii)I have been in this class for **.....** year now.

iii)..... goat is the most destructive animal.

NAME…….…….. CLASS…….…… ADM

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DATE……..

FORM 2 END TERM 2 SERIES 3 EXAMS

GEOGRAPHY
TIME: 2HOURS

INSTRUCTIONS TO CANDIDATES

Answer All question in the spaces provided

All Answers must be written in English

FOR EXERMINERS USE ONLY

SECTION A	1	
	2	
	3	
	4	
	5	
	6	
	7	
	8	
SECTION B	9	
	10	
	11	

SECTION A: (40 MARKS) *Answer all questions in section a in the spaces provided*

1. **(a)** what is a Stevenson screen **(2mks)**

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(b) Name three instruments that are placed in Stevenson screen **(3mks)**

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

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3. **(a)**State four proofs that the earth is spherical **(4mks)**

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4. Name the layers of the atmosphere **(4mks)**

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5. **(a)**Name two scales used to measure the intensity of an earthquake **(2mks)**

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(b) List ***five*** causes of earthquake **(5mks)**

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6.(a) Outline any ***four*** uses of maps **(4mks)**

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(b) Give any ***three*** marginal information found in topographical map **(3mks)**

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7.(a) Give three forces that are responsible for lateral earth movement **(3mks)**

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(b) Name ***two*** types of tectonic plate boundaries **(2mks)**

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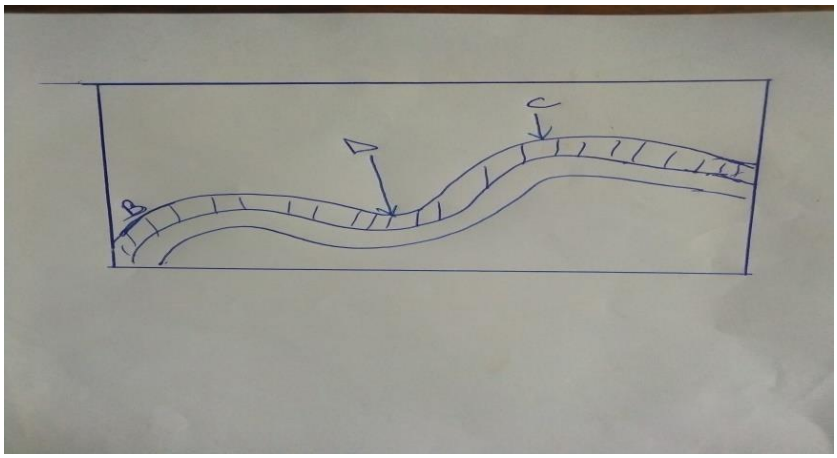
8. (a) What is folding **(2mks)**

……

……

……

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



Name the part labeled

B-

……

C-

……

D-

……

SECTION B :60 marks : Answer all questions in this section

9.(a) Give **2** factors that are considered when classifying clouds **(2mks)**

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

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(c) Suppose you visited a weather station a field study on weather

(i) Give ***four*** methods you would use to record data **(4mks)**

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(ii) State ***five*** advantages of studying weather through field work **(5mk)**

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(d) State ***five*** factors that influences climate **(5mks)**

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10(a).(i) What is a mineral **(2mks)**

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(ii) Give ***four*** characteristics of minerals **(4mks)**

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(b) (i) What is metamorphic rocks **(2mks)**

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(ii) State 4 characteristics of igneous rock **(4mks)**

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(c) Outline the significance of rocks to the economy of Kenya **(8mks)**

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11. (a) Name ***four*** active volcanoes in Kenya **(4mks)**

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(b) Describe the formative of a composite volcano **(4mks)**

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(c) Explain ***six*** ways in which volcanic feature influence human activities **(12mks)**

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NAME……..…….... CLASS……..…… ADM

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DATE……..

FORM 2 END TERM 2 SERIES 3 EXAMS

HISTORY

TIME: 2 HOURS

SECTION A (25 MARKS) ***Instructions:***

Answer all the questions in the spaces provided.

1. Define pre-History **(1 mark)**

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2. Identify **two** limitations of using written method as a source of information on History and Government. (2 **mark)**

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3. Identify one method that archeologists use to locate an archeological site. **(1 mark)**

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4. Identify **two** types of oral traditions used to obtain information on History and Government. **(2 mark)**

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5. State the scientific theory that explains the origin of human beings. (**1 mark)**

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6. Give the meaning of the term, "Stone Age Period" **(1 mark)**

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7. Identify the river the early Egyptians relied on for agriculture. **(1 mark)**

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8. State ***two*** ways in which the Sumerians in Mesopotamia reclaimed land for agriculture. **(2 mark)**

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9. State ***two*** ways in which the Agikuyu interacted with the M aasai during the pre-colonial period **(2 marks)**

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10. What was the main reason for the migration of the Eastern Bantus from Shungwaya during the pre-colonial period. **(1 mark)**

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11. Give ***one*** reason which led to the decline of Gedi during the 15th century. . **(1 mark)**

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12. Give ***two*** ways through which knowledge in marine technology facilitated the coming of the early visitors to the Kenyan coast **(2 marks)**

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13. Gi*ve* ***one*** advantage of dual citizenship to a Kenyan citizen**.** **(1mark)**

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14. Give ***two*** economic responsibilities of a Kenyan citizen. **(2 marks)**

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15. State ***two*** ways in which education has promoted national unity. **(2 marks)**

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16.Identify ***two*** types of trade. **(2 marks)**

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17.Give the ***main*** form of transport used in the Trans-Saharan Trade **(1 mark)**

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SECTION B(45 MARKS)

Answer all questions in the spaces provided

18. a. Apart from the Akamba, identify three other Highland Bantu groups found in Kenya. **(3marks)**

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b. Describe the social organization of the Maasai during the pre-colonial period. **(12 marks)**

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19. a. Give ***five*** methods used to acquire slaves from West Africa during the Trans-Atlantic trade. **(5 marks)**

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b. Explain ***five*** disadvantages of using air transport . **(10 marks)**

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20. a. Give ***three*** uses of wind as a source of energy in the ancient times **(3 marks)**

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b. Explain ***six*** effects of iron-working technology in African communities before the **19**th century .

(12 marks)

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SECTION C (30 MARKS)

21. a. state ***three*** conditions which must fulful in order to get Kenyan citizenship by registration.

(3 marks)

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b.Explain ***six*** effects of conflicts in Kenya. (**12 marks)**

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22. a. State three ways in which poverty undermines unity in Kenya **(3 marks)**

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b. Explain ***five*** factors that promote National Unity in Kenya. **(12 marks)**

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JINA……..NAMBARI YA USAJILI…….……

SAHIHI……TAREHE……

KISWAHILI

MUDA:SAA 2 ½

MTIHANI WAMWISHO WA MUHULA WA PILI MFULULIZO WA TATUKIDATO CHA PILI

MAAGIZO
JIBU MASWALI YOTE.

KWA MATUMIZI YA MTAHINIWA PEKEE

	SWALI	UPEO	ALAMA
1	INSHA	20	
2	UFAHAMU	15	
3	SARUFI NA LUGHA	40	
4	ISIMU JAMII	10	
5	FASIHI SIMULIZI	15	

SEHEHU YA A: INSHA

1. Tunga kisa kitakachodhihirisha maana ya methali: Nazi mbovu harabu ya nzima

SEHEMU B UFAHAMU

Soma kifungu kifuatacho kisha ujibu maswali

Mwalimu Mosi aliitwa Mwalimu Mosi kama alivyopenda mwenyewe. Mwalimu Mstaafu ambaye mikononi mwake wanafunzi walifinyangwa barabara mpaka hatimaye wakaisha kuwa madaktari, marubani, wabunge, mawaziri, wahandisi, wahasibu.

Wanafunzi wake wote hao wanafunzi wake hawamsahau kwa nasaha zake, kwa insafu yake, kwa huruma zake, kwa hekima yake, kwa ustaarabu wake, kwa uadilifu wake, kwa uajibikaji wake, kwa nemsi yake, kwa ucheshi wake, kwa ukaramshi wake – kwa yote na yote. Hawamsahau mwalimu wao huyo wa shule ya

msingi aliyelimbuka kuwashikisha kalamu,kuwafichulia siri ya tarakimu, abjadi, ramani, michoro, jedwali, Hisabati wake –Sayansi, Historia na Jiographia – na vyote na vyote.

Alijaaliwa mvi nyeupe zilizojianika kwenye kichwa chake kidogo kilichosimama jadidi kwenye shingo yake nyembamba. Alijaaliwa mvi kwa vile zilikuja mapema wakati alikuwa bado ana umri wa miaka thelathini. Watu wakasema wakati hekima hiyo, *kutabasuri* huko. Kwa hiyo, hakujisumbua kujipaka rangi nyeusi kuung'ang'ania ujana uliotishia kumwondoka mapema. Wakati wa kustaafu ulipotimu, mvi zimemkaa kwa haiba kama theluji kwenye mlima Kilimanjaro.Zimempa haiba na staha na mvuto wa aina yake. Anaikumbuka siku ya sherehe za kumuaga shuleni. Zilikuwa sherehe za ndovu kumla mwanawe. Wazazi na wanafunzi wa zamani na wapya walifurika kwenye kiambo cha shule kama mashabiki wa mchuano wa siku wa kuwania kombe la dunia. Baadhi ya wanafunzi wake waliokuwa watu wa kutajika walifika kumzawidi mwalimu wao wa awali. Mwalimu aliyechangia pakubwa kuwafanya kuwa watu wa subira yake, shime yake, wasia wake na kielelezo chake.Kielelezo kisichomithilika. Wanafunzi wake wa zamani waliopewa kisogo na dunia, wakifika kuumiza roho zao kwa kuhesabu magari ya kifahari ya wenzao na kuhusudu masuti yao yaliyotoka ng'ambo, na kuwamezea mate wake za wenzao hao waliokuwa wamekuwa 'watu; kwa vigezo hivi vya kupima utu kwa vitu.

Wanafunzi wake waliokuwa bado wanasoma kwenye shule hiyo waliimba *lele*, nyimbo za jamii mbalimbali, wakacheza zeze, marimba, lelemama, mdundiko, violini, vinubi. Sikwambii, kukariri mashairi na kucheza drama, na sarakasi. Watu walifurahi hadi ya kufurahi. Sherehe zilifana. Hotuba zilitolewa na Mstaafu Mosi alisifiwa. Alipaliwa sifa hasa. Aliposisimama kuzungumza, uwanja mzima ulizizima. Walijua kwamba Mwalimu Mosi ni *hatibu* hodari, anayo maneno kuweza kumtoa nyoka pangoni. Akashika kipaza sauti. Akakohoa kama ishara ya kuosha koo.

'SIwezi kuhutubu' alisema 'Mimi sikuwafundisha ubaguzi. Kwa nini mnabaguana? Kwa nini hamkuwapa watu wa matabaka yote nafasi ya kuzungumza? Kwa nini? Kwa nini nmafanya hali hii ya kuwa kuna watu na nusu watu? Naomba radhi *mfawidhi* wa sherehe lakini nadhani ni jambo la busara kutokitia mchanga kitumbua cha sherehe hii kwa kubagua. Kwa hivyo, naomba wazungumze pia wale ambao hawajakuja hapa kwa magari mazito. Nataka wazungumze wale ambao hawatusifu tu".

Kimya.

'Nasema nataka aje hapa mwanafunzi wangu wa sasa wa zamani ambaye hana nafasi ya hali au dhamira yake si kusifu , naye pai hatubu'.

Kimya.

Kisha mtu mmoja alianza kuwasukuma kwa mkikimkiki watu akitaka wampishe. Baadhi walisonya au kutapika ufyosi kwa hasira huku wengine wakisihi aachiwe apite. Kichwa chake chenye upara kiling'aa utosini kama sufuria mpya kwenye duka la Baniani. Alipokaribia jukwaa ilibainika kuwa alikuwa na furaha nyekundu iliyochanika vibayavibaya kana kwamba ndiyo mwanzo anatoka kupigana kiereka mieleka. Alipopanda jukwaa, nusura aanguke, ama kwa haraka zake au kwa kukosa makini au yote pamoja. Alikitwaa kipaza sauti kutoka kwa Mwalimu Mosi kana kwamba yalikuwa makosa makubwa kumruhusu mwalimu kuwa nacho watu walianza kucheka.

'Hebu nitazameni vizuri' aliguruma. 'Mnasikia lakini? Sijawahi kusema kwenye kipaza sauti tangu nizaliwe sijawahi kuvaa kiatu mguuni, sijawahi kumiliki hata baiskeli, sikwambii haya madude makubwa waliyokuja kututisha nayo akina Baraka, Festo, Mshamba, Nangeto, na hali kadhalika. Hawa wote wanaojiita watu ambao tulikuwa nao hapa pamoja hatujui hata kupenga kamasi wala kuhesabu vidole vya mikono yetu, sijawahi kuruka kwa ndege wala kufika kwenye majiji ya ndani na nje ya nchi hii wanakoishi au kutembelea mabingwa hawa. Sijawahi kuona sura ya shule ya upili ila pale alipokuja rais kuchangisha pesa kwenye shule ya upili ya Wangwani. Pesa zilizoliwa na wakora kama hawa, sijawahi kuona raha ya kuitwa mheshimiwa , sijawahi kuitwa, mtu, mtu wa maana, mtu bora wa halafu na wa sasa. Kisa na maana ni huyu Mwalimu Mosi ….?

Jibu maswali yafuatayo:

a)Kipe anwani mwafaka kifungu hiki **(alama 1)**

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(b) Mwalimu Mosi aliwafinyanga wengi barabara.Thibitisha **(alama 2)**

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(c) Ni nini ishara ya mvi nyeupe iliyojianika kwenye kichwa cha mwalimu Mosi kulingana na watu. **(alama2)**

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(d) Sherehe za mwalimu Mosi zilikuwa za ndovu kumla mwanawe.Fafanua. **(alama2)**

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(e) Kwa nini mtu yule alianza kusukuma watu kwa mkikimkiki nusura anguke? **(alama2)**

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(f) Dondoa tashbihi zozote mbili ambazo zimetumika katika kifungu hiki **(alama2)**

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(g) Ni kwa jinsi gani mtu aliyekitwaa kipasa sauti anajiona duni ? **(alama 2)**

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(h) Eleza maana ya misamiati ifuatayo kama ilivyotumika katika kifungu hiki **(alama2)**

(i) Mfawidhi

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……

(ii) Nemsi

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SEHEMU C YA SARUFI NA MATUMIZI YA LUGHA

1.Taja sauti ambazo huwa na sifa zifuatazo **(alama 3)**

i. irabu ya kati, chini

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ii.. konsonati sighuna ya menoni.

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2.Bainisha silabi zinazowekwa shadda katika maneno yafuatayo **(alama 2)**

i. Mwalimu

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ii. Ala (kihisishi)

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……

3.Changanua sentensi ifuatayo kwa kielelezo cha mstari :

Wale waovu watalaaniwa hatimaye. **(alama2)**

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4. Nyanbua vitenzi vifuatavyo ukizingatia kauli kwenye mabano**.** **(alama 2)**

i. Chota(kutendesha) **……..……...…**

ii. Tembea (kutendea)**……...…….**

5. Sentensi zifuatazo ni za aina gani? **(alama 2)**

i. Mkurugenzi aliyeshiriki katika ufisadi ametiwa kortini.

……..……

……...……...……

ii. Mama anapika ilhali watoto wanacheza

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6.Eleza matumizi mawili ya kiakifishi .
Kibainishi. **(alama 2)**

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……...……...……

7.Badilisha sentensi ifuatayo katika usemi wa taarifa.

"sitaweza kukusaidia leo'. Mfadhili akasema. **(alama 2)**

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8.Eleza matumizi ya kiambishi 'po' katika:

Mwalimu alipofika alioneshwa walipokuwa wageni. **(Alama 2)**

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9.Tunga sentensi katika wakati uliopita hali timilifu **(alama 2)**

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10 Ainisha mofimu katika neno

Kilichopikwa – **(alama 2)**

……..……

……...……...……

11Andika katika ukubwa wingi

Ngozi ya mtoto ni laini sana . **(alama 2)**

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12. Tunga sentensi kwa kutumia .

Kivumishi kionyeshi kisisitizi kimoja na nomino katika ngeli ya YA-YA. **(alama 2)**

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13. Onyesha miundo miwili inayojitokezea katika nomino za ngeli ya U-ZI **(alama 2)**

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14.Unda nomino dhahania kutokana na vitenzi **(alama 2)**

i. lima

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ii. Pika

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15. Kwa kutoa mifano eleza maana ya mzizi huru na mzizi funge. **(alama 2)**

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16. Yakinisha sentensi ifuatayo

Usiposoma kwa bidii hutafaulu vyema **(alama 2)**

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17. Kwa kutunga sentensi onyesha maana ya vitate. **(alama 2)**

Fua

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Vua

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18. Sahihisha sentensi **(alama 2)**

Mwanafunzi ambaye niliyemsomesha ameasi jamii

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19. Tambua na ueleze aina za vivumishi katika sentensi zifuatazo **(alama 2)**

○ Mkulima mwenyewe analima shambani ○

Kazi yao inahitaji mjini.

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20. Kwa kutunga sentensi onyesha maana ya vitate. **(alama 2)**

Fua

Vua

……..……

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21. Choyo ni kwa karimu **……** ni kwa sifu na **…….**ni kwa tawanya.
(alama 2)

SEHEMU YA D: ISIMU JAMII

Soma makala yafuatayo kasha ujIbu maswali Mhusika
A: Njoo hapa! Ni saa ngapi?
Unatenbea usiku.
Mhusika B: (akitetemekaNIsamehe afande, nimechelewa.
Mhusika A: Nani akusamehe. Piga magoti haraka! Toa kitambulisho!
Mhusika B: Nilisahau nyumbani
Mhusika A: Wewe unatembea bila numberplate. Nitakutia ndani saa hii.
Mhusika B: (kwa kunyenyekea) Nisamehe afande.
Mhusika A: Utajitetea na nani? Mkono mtupu haulambwi.
Mhusika B: Sina chochote
Mhusika A: leta hiyo mkono! Nikikutia hizi pingu utaongea sawasawa .

1. **a**. Tambua sajili ya makala; uliyosoma **(alama 2)**

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b. Eleza sifa zinazojitokeza katika sajili uliyotaja hapo juu. **(alama 8)**

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SEHEMU YA E: FASIHI SIMULIZI

1. Eleza maana ya:

a)Visasili **(al2)**

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b)Visasili vina umuhimu gani? **(al5)**

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2. Soma kifungu kifuatacho kisha ujibu maswali yanayofuata

Lala mtoto laala
Lala mtoto laala
Mama anakuja laala
Akupe maziwa laala
Maziwa matamu laala

(a). Tambua aina ya wimbo uliosoma **(alama 2)**

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(b). Taja sifa za aina ya wimbo uliotambua hapo juu. **(alama 3)**

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3. Ni kwa njia gani hadhira katika fasihi simulizi inaweza kushirikishwa kwenye utambaji wa hadithi?
(alama3)

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NAME……..…….. CLASS…….…… ADM

NO……SIGNATURE……

DATE……..

FORM 2 END TERM 2 SERIES 3 EXAMS

MATHEMATICS
TIME: 2 ½ HOURS

INSTRUCTIONS TO CANDIDATES

- ✓ *Write your name and admission number in the spaces provided at the top of this page.*
- ✓ *This paper consists of two sections:* **Section I and Section II.**
- ✓ *Answer **all** questions in* **section I** and section **II.**
- ✓ *Show all the steps in your calculations, giving your answers at each stage in the spaces below each question.*
- ✓ *Marks may be given for correct working even if the answer is wrong.*
- ✓ ***KNEC** Mathematical tables may be used.*

FOR EXAMINER'S USE ONLY

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

17	18	19	20	21

Grand Total

SECTION I (50 marks)

1. Wafula uses $\frac{1}{6}$ of his land for planting maize $\frac{1}{12}$ for beans and $\frac{4}{9}$ of the remainder for grazing. He still has 10 hectares of unused land. Find the size of Wafula's land **(3 marks)**

2. In a right angle triangle, one shorter side is 6 cm and longer side is 10cm. Find :

i. Length of the other side **(1 mark)**

ii. The area of the triangle **(2 marks)**

3. Wambua's family is watching a movie. Wambua checked the watch and realized that the movie ended at 0110h. If the movie lasted 2.3 hours, what was the time on Wambua's watch when the movie started? **(2 marks)**

4. Find the area of a triangular plot with side 85m,75m and 60m in hectares **(3 marks)**

5. When a certain number x is divided by 30, 45 or 54, there is always a remainder of 21. Find the least value of the number x. **(3 marks)**

6. Solve for x in the following equation: $Sin\left(\frac{1}{2}\ x - 10^0\right) = Cos2x$ **(3 marks)**

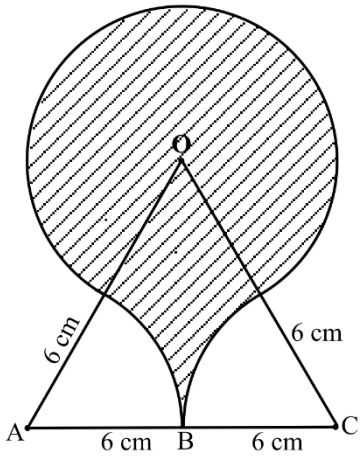
7. Use logarithm table to evaluate **(4 marks)**

$$\sqrt{\frac{0.246\times142}{0.02\times1.14}}$$

8. (a) Using a ruler and compass only, construct triangle PQR in which $PQ = 3.5\ cm$, $QR = 7\ cm$ and angle $PQR = 30°$ **(2 marks)**

(b) Construct a circle passing through points P, Q and R **(2 marks)**

9. In the figure below points O, A and C represents the center of an arc of a circle. $OA = OC = AC = 12\ cm$



Calculate the area of the shaded region correct to 4 significant figures. (Take $\pi = 3{\cdot}142$) **(3 marks)**

10. Express $\frac{x-y}{3} - \frac{2x-y}{2}$ as a single fraction **(3 marks)**

11. Find the equation of the line perpendicular to the line $4x - y = -5$ and passing through the point $(-3, -2)$. **(3 marks)**

12. Simplify; $\frac{4xy+8y^2-3x-6y}{8y-6}$ **(3 marks)**

13. Otieno is standing at a point P 300m away from a building. The angle of elevation from point P to the top of the building is 32°. He then walks 200m towards the building to a point Q.

a) Find the height of the building correct to 2 d.p **(1 mark)**

b) Find the angle of elevation from point Q to the top of the building **(2 marks)**

14. The volume of two similar cylinders are 4 752 cm^3 and 1 408 cm^3.If the area of curved surface of the smaller one is 352 cm^2, find the area of the curved surface of the larger cylinder . **(3 marks)**

15. 7500 ml of milk is poured into a cylindrical milk churn. Given that the height of the milk in the churn is 30 cm, determine the surface area in contact with the milk in the churn. **(4 marks)**

16. A minor arc of a circle subtends an angle of 105° at the centre of the circle. If the radius of the circle is 8.4 cm, find the length of the major arc **(3 marks)**

SECTION II (50 MARKS)

Answer all the questions in the spaces provided.

17. The exchange rate on March 17th 2000, was as follows: -

1 US$ = Kshs.74.75

1 French Franc (Fr) = Kshs.11.04

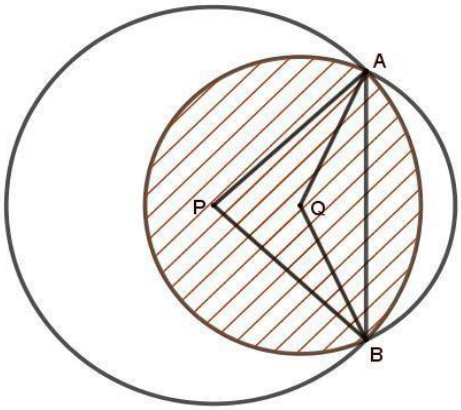
A Kenyan tourist had Ksh.350,000 and decided to proceed to America .

a) How much in dollars did he receive from his Ksh. 350, 000 in 4 s.f? **(3 marks)**

b) The tourist spend ¼ of the amount in America and proceeded to France where he spend Fr 16,200. Calculate his balance in French Francs to 4 s.f **(4 marks)**

c) When he flies back to Kenya, the exchange rate for 1 Fr = Kshs.12.80. How much more in Kshs. does he receive for his balance than he would have got the day he left? **(3 marks)**

18. The figure below (not drawn to scale) shows two intersecting circles centres P and Q with radii 6 cm and 5 cm respectively. The common chord AB is 9.3 cm long.



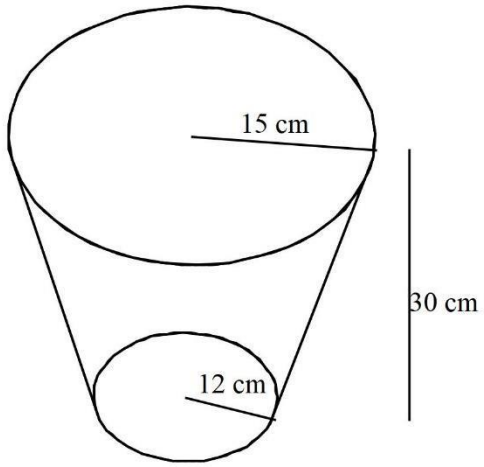
Determine;

a) Angle APB**.** **(2 marks)**

b) Angle AQB. **(2 marks)**

c) The common area between the two circles. (Shaded region). **(6 marks)**

19. The diagram below shows a frustum which represents a bucket with an open end diameter of 30cm and bottom diameter 24cm.



The bucket is 30cm deep. (Use $\pi = 3.142$)

a) Calculate the capacity of the tank in litres **(5 marks)**

b) The bucket is used to fill an empty cylindrical tank of diameter 1.4m and height 1.2m

i. Calculate the capacity of the tank in litres **(3 marks)**

ii. Determine the number of buckets that must be drawn in order to fill the tank. **(2 marks)**

20. A rectangle ABCD is such that A and C lie on the line $y = 3x$. The images of B and D under a reflection in the line $y = x$ are $B'(-1, -3)$ and $D'(1,3)$ respectively.

a) Draw on a cartesian plane, the line $y = x$ and mark points B' and D' **(3 marks)**

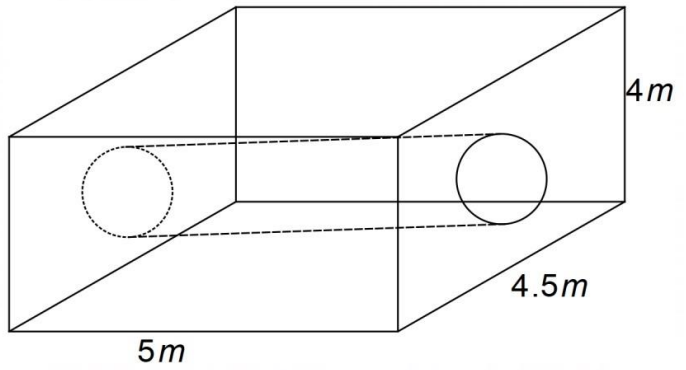


b) Mark the points B and D before reflection **(2 marks)**

c) Draw the line $y = 3x$ hence mark the points A and C to complete and draw the rectangle ABCD. State its co-ordinates, and these of A' and C'**.** **(3 marks)**

d) Find the image of D under a rotation, through $-90°$, center the origin. **(2 marks)**

21. A metallic solid which is cuboidal measuring 5m by 4.5m by 4m has a cylindrical hole of diameter 50cm drilled through the face measuring 4.5m by 4 as shown below.



Calculate, leaving your answer in term of π

a) The surface area of the solid. **(5 marks)**

b) The mass in kilograms of the cuboid if the density of the material used to make it is $2.43g/cm^3$

(5 marks)

NAME…….…….. CLASS…….…… ADM

NO……SIGNATURE……

DATE……..

FORM 2 END TERM 2 SERIES 3 EXAMS

PHYSICS
TIME: 2 HOUR 30MINS

INSTRUCTIONS TO CANDIDATES:

- *Write **your name, admission number**, **date** of examination and the **name** of your school in the spaces provided above.*
- *This paper consists of sections: **A** and **B.***
- *Answer **all** the questions in section **A** and **B** in the spaces provided.*
- *All working **must** be clearly shown in the spaces provided.*
- *Mathematical tables and electronic calculators may be used.*

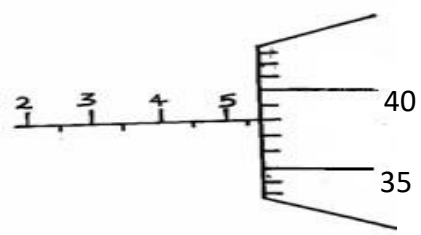
FOR EXAMINER'S USE ONLY

SECTION	QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
A	1 – 16	40	
B	17	17	
	18	10	
	19	11	
	20	10	
	21	12	
TOTAL SCORE		**60**	

SECTION A : (40 MARKS)

Answer all questions this section in the spaces provided.

1.Figure 1 shows a micrometer with a negative error of 0.02mm used to measure the diameter of a ball bearing.



Record the diameter of the ball. **(2mks)**

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2.An oil drop of volume 0.4mm³ was placed on a clean water surface. It spreads to form a monolayer circular patch of area 2000mm². Use this data to calculate the thickness of a molecule of oil. **(3mks)**

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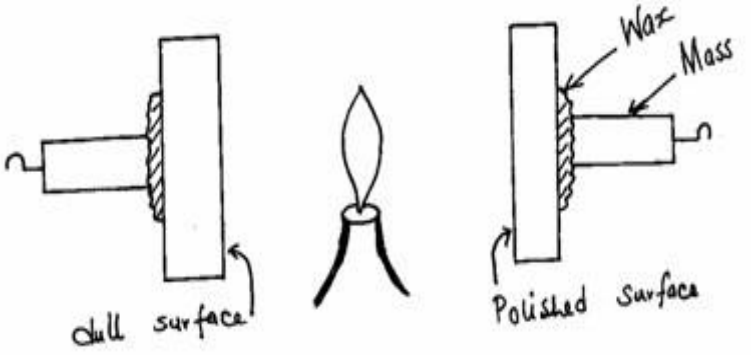
3.A fixed mass of pure water was heated from 0□C to 2O□C. Sketch a graph of density of the water against temperature. **(2mks)**

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4.Two 10g masses are fixed onto two similar aluminum plates, one polished and the other painted black, using wax as shown in the figure **below**.



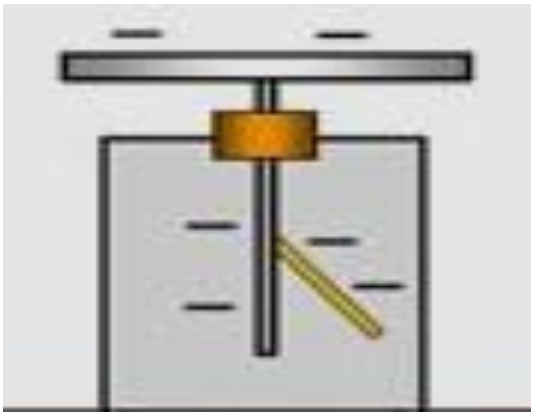
i)State which one will fall first **(1mk)**

……

ii) give a reason for the answer above. **(1mk)**

……

5.The figure ***below*** shows a negatively charged leaf electroscope.



State and explain what happens to the electroscope when highly positive rod is brought near the cap of the electroscope. **(2mks)**

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6.State ***one*** advantages of alkaline accumulator over the lead-acid cell. **(1mks)**

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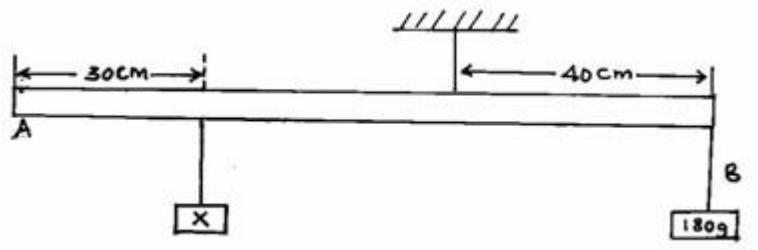
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7.The figure **below** shows two magnets whose North poles are brought close to each other.
Indicate the magnetic field pattern between the two magnets. **(2mks)**



8.The diagram shows a system in equilibrium with the uniform rule supported at Q and resting horizontally.



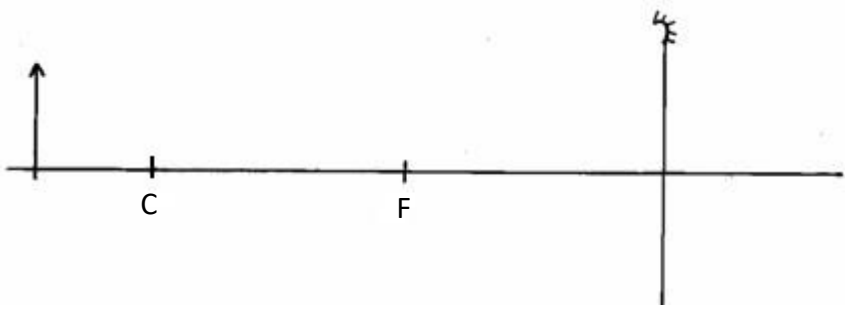
The rule is 1m long and weighs 1.8N. Calculate the weight of the block X. **(3mks)**

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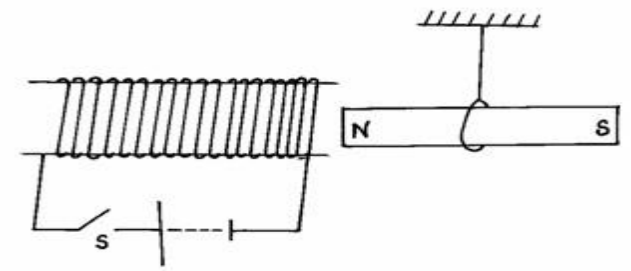
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9.An object is placed in front of a concave mirror as shown in the figure **below**.
Complete the diagram to show how the image is formed. **(3mks)**



10.State and explain what will happen to the freely suspended magnet when the switch S is closed.
(2mks)

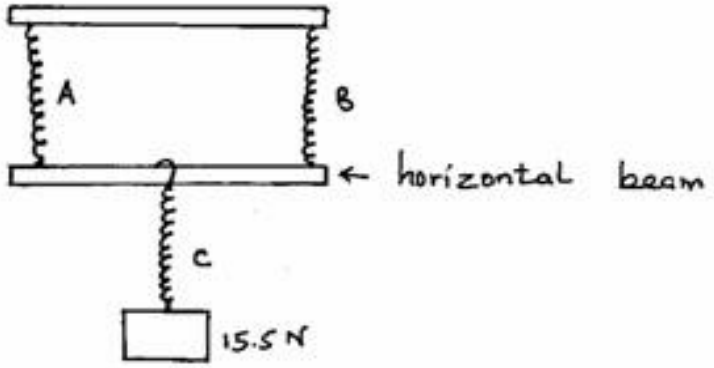


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11.Three identical springs **A**, **B** and **C** and of negligible weight are used to support a 15.5N weight as shown in the figure **below**.



If the weight of the horizontal beam is 0.5N, determine the extension of each spring given that the spring constant of each spring is 4N/cm **(3mks)**

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12.State ***one*** of the major differences between mechanical waves and electromagnetic waves. **(1mk)**

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13.A boat sent an ultrasound signal to the bottom of the sea and its echo received after 0.5 seconds. If the velocity of the sound in water is 1500m/s, calculate the depth of the sea. **(3mks)**

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14.1800cm^3 of fresh water of density 1g/cm^3 is mixed with 2200cm^3 of sea water of density 1.025g/cm^3. Calculate the density of the mixture **(4mk)**

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15. Distinguish between a basic physical quantity and a derived physical quantity giving an example of each. **(3mks)**

	Physical quantity	**Derived physical quantity**

difference		
example		

16. a) State any ***two*** ways by which frictional force between two surfaces can be reduced. **(2mk)**

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b) Explain why large mercury drops form oval balls on a glass slide **(1mks)**

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SECTION B: (60 MARKS)

Answer all questions in the spaces provided

17. a) Figure1 below shows two mirrors M1 and M2 are inclined at right angles to each other.

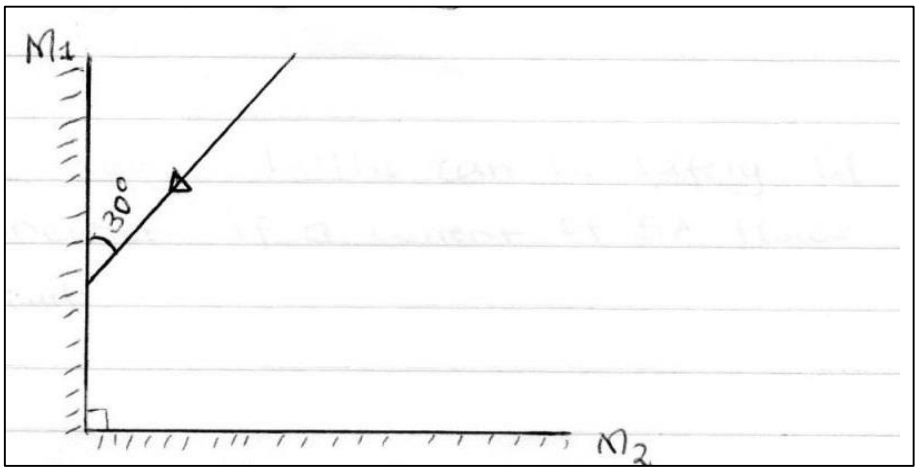


Fig 1

a)Trace the reflection of the ray through the two mirrors and find the angle between the incident ray and reflected ray of mirror M_2. **(2mks)**

b)Distinguish between Lunar and Solar eclipse by stating the arrangements that lead to the formation of each **(4mks)**

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c)Complete the diagram ***below*** to show how an image is formed in a pinhole camera. **(3mks)**

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d) State ***two*** characteristics of the image above. **(2mks)**

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e)State ***two*** changes that will be observed about this image if the pinhole is made wider. **(2mks)**

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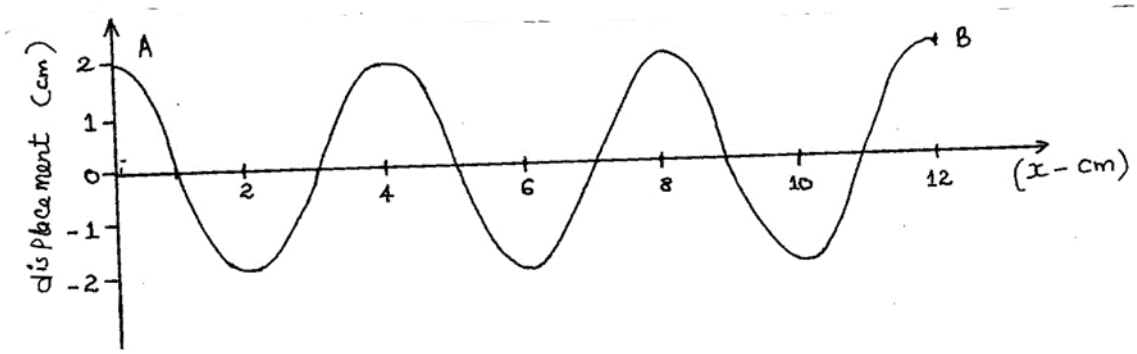
f) If = 30cm, y = 12cm and the heights of the image is 4cm, calculate the height of the object. **(3mks)**

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18. The diagram **below** shows the wave profile of a transverse wave.



(a) Determine

i)the amplitude of the wave. **(1mk)**

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ii)the wavelength of the wave in metres. **(2mks)**

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iii)the period of the wave if it takes 1.5 seconds to move from **A** to **B.** **(3mks)**

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b) Calculate:

i)the frequency of the wave. **(2mks)**

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ii)the velocity of the wave. **(2mks)**

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19 (a) What is diffusion? **(1mk)**

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(b) state two factors that affect diffusion **(2mks)**

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(c)A smoke cell contains a mixture of trapped air and smoke. The cell is brightly lit and viewed through a microscope. State and explain what is observed. **(2mks)**

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d)A beaker is filled completely with water. A spoonful of common salt is added slowly. The salt dissolves and the water does not overflow.

i)State why the salt is added slowly. **(1mk)**

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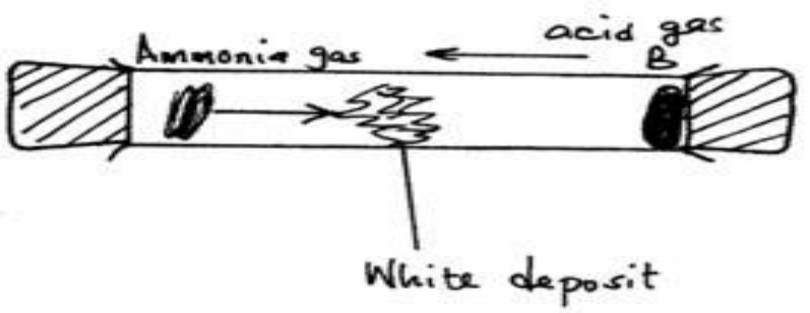
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ii) Why doesn't the water overflow? **(1mk)**

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e) In the figure **below**, ammonia gas and acid gas diffuse and react to form a white deposit on the walls near ammonia gas of a long glass tube as shown.



i)What conclusion can be made from this result of this experiment? **(1mk)**

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ii)why is a white deposit formed near ammonia gas? **(1mk)**

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The experiment is performed at a lower temperature.

iii) State what would happen to the rate of diffusion of the gases. (**1mk)**

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iv)explain your answer in (iii) above **(1mk)**

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20.(a) Give ***four*** differences between mass and weight. **(4mks)**

Mass	weight

(b) State Pascal's Principle. **(1mk)**

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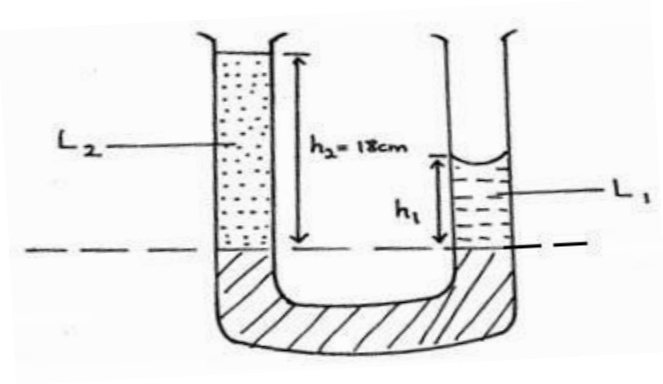
(c) Name ***two*** applications of Pascal's Principle. **(2mks)**

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(d) Figure **3** shows a U-tube containing two liquids L_1 and L_2 of densities 1.6g/cm³ and 0.8g/cm³ respectively in equilibrium.



Given that h_2 = 18cm, determine the value of h_1. **(3mks)**

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21 a) Define current and state its SI unit **(2mks)**

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b) A charge of 120 coulombs flow through a lamp every minute. Calculate the current flowing through the lamp. **(3mks)**

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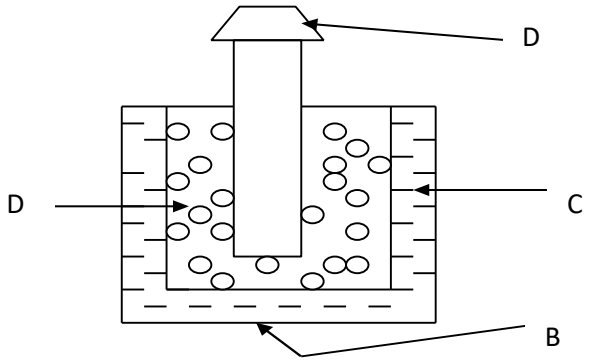
c) Differentiate between open and closed circuits. **(2mks)**

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d)The diagram bellow shows a dry cell. Use to answer to the question that follows.



i. State the polarities of A and B. **(2 mks)**

A

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B

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ii. Name the chemical substances in the parts labeled C and D **(2mks)**

C

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D

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e)Give reasons why it is necessary to leave the caps of the cells open when charging an accumulator. **(1mk)**

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