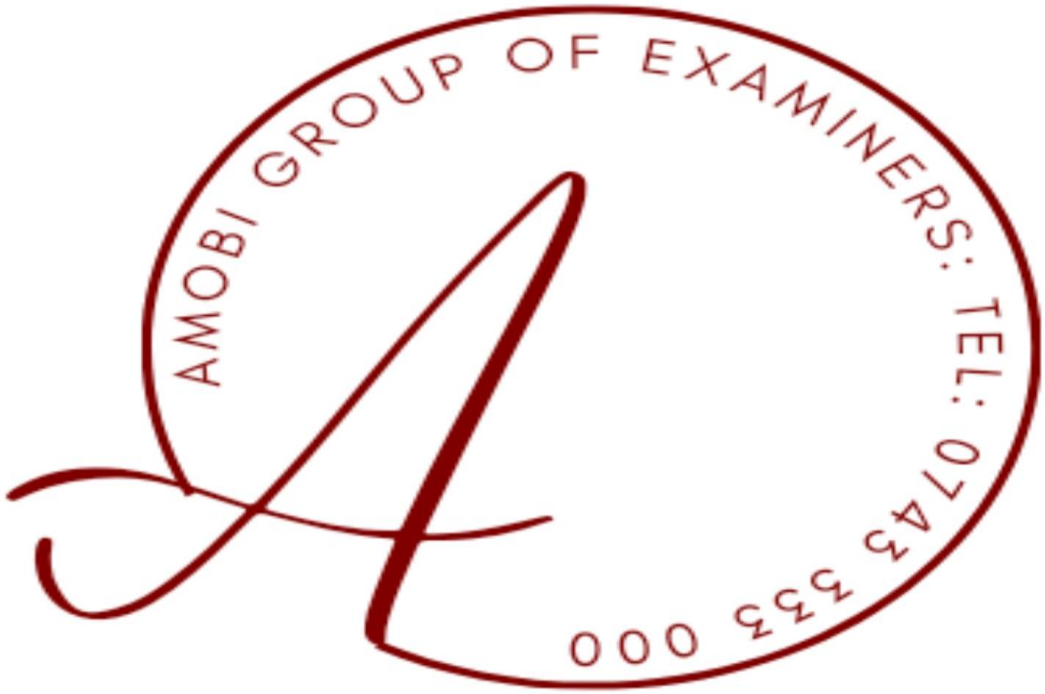
EXCELLING STUDENTS FORM 2 END TERM 3 SERIES 1 EXAMS *(ALL SUBJECTS TESTED)*



EXCELLING STUDENTS FORM TWO END TERM THREE SERIES ONE EXAMS

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

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

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EXCELLING STUDENTS FORM TWO
END TERM 3 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

AGRICULTURE (443)

FORM TWO (2)

TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES

a. Write your name and admission number in the space provided

b. Sign and write the date of examination in the space provided above

c. This paper consist of three sections A, B and C (100mks)

d. Answer all the questions in sections A, B and C

e. All answers should be written in the spaces provided

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

FOR EXAMINERS USE ONLY

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATES SCORE
A	1-19	30	
B	20-25	30	
C	26	20	
	27	20	
TOTAL SCORE		100	

SECTION A

1.Outline **two** conditions that favors nomadic pastoralism in Kenya. **(2mks)**

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2.State **three** factors that determine the depth of planting seeds. **(1½mks)**

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3.Outline **four** factors that affect the quality of farmyard manure. **(2mks)**

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4.Name **three** basic concepts of economics **(1½mks)**

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5.Give **two** methods used to drain farmland. **(1mk)**

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6.Differentiate between a nursery bed and a seedbed. **(1mk)**

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7.Name **three** macro nutrients whose deficiency symptoms is chlorosis. **(1½mks)**

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8.Give **two** reasons for sub soiling **(1mk)**

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9.Differentiate between intercropping and mixed cropping **(1mk)**

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10. State **two** factors that do not favour shifting cultivation **(1mk)**

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11. State **two** importance of organic farming **(1mk)**

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12. State **two** ways of increasing the amount of light obtained by plants during crop production **(1mk)**

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13. State **four** ways that encourage rooting in tea stem cuttings. **(2mks)**

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14. State **four** factors that increase seed rate in crop production. **(2mks)**

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15. Give **Three** wrecking tools and equipment **(1½mk)**

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16. State **Four** ways through which soil losses fertility. **(2mks)**

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17. State **Four** advantages of overhead irrigation **(2mks)**

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18. State two reasons for each of the following operation

a) Rolling the soil **(2mks)**

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b) Minimum tillage **(2mks)**

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19. Differentiate between Essex saddleback and Wessex saddle back **(1mk)**

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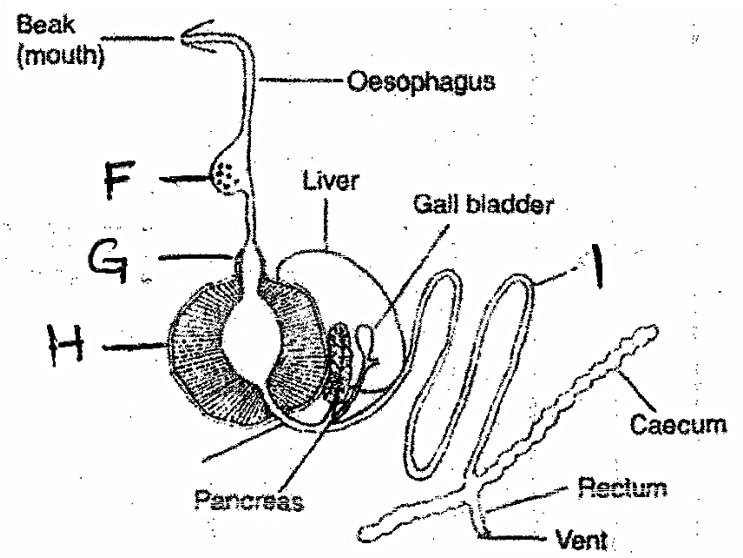
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SECTION B (30MARKS)

20. The diagram below shows the digestive system of a farm animal



a) Identify the animal **(1mk)**

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b) Name the part labelled F and G **(2mks)**

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c) Give **<u>two</u>** adaptation of part H to its functions **(2mks)**

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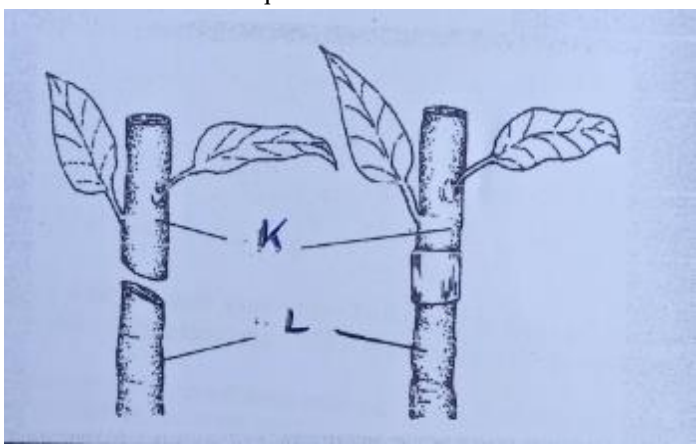
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21. A dairy farmer is required to prepare 200 kg of dairy meal containing 20%DigestibleCrude Protein (D.C.P.). Using the Pearson's Square Method, calculate the quantity of soya bean (40% D.C.P.) and rice (16% D.C.P.) the farmer requires for the dairy meal. **(5mks)**

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22. Study the illustration below and answer the questions that follows



a) Identify the method of propagation shown in the illustration above **(1mk)**

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b) Give three desirable features that the mother plant from which the part labelled K should have **(3mks)**

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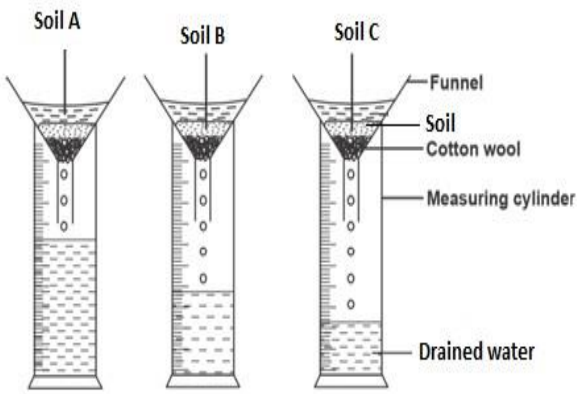
c) Give one factor considered when choosing part L during the practice shown above **(1mk)**

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23. The diagram below illustrates an experiment on soil.



(a) State the aim of the experiment. **(1mk)**

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(b) If the volume of water illustrated in the measuring cylinder was observed after the hour. Identify the soil sample **A** and **B.** **(2mks)**

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(c) State two ways in which the soil structure of the sample labelled **C** above can be improved. **(2mks)**

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24. The diagram below shows an auger bit. Use it to answer questions that follow:



(a) Name the part labelled **X a**nd **Y**. **(2mks)**

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(b) Give the function of the part labelled N. **(1mk)**

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(c) List two other bits other than the one shown above**.** **(2mks)**

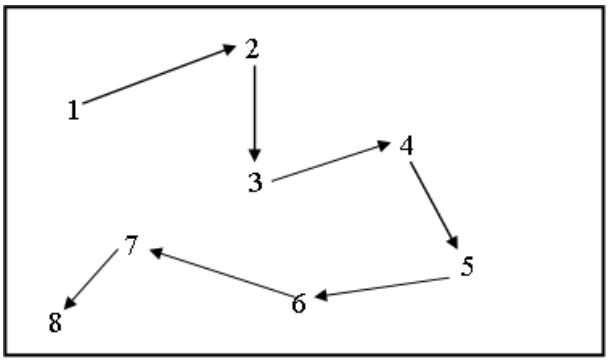
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25. The diagram below illustrates a method of collecting soil samples from a field



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a) Identify the method illustrated above. **(1mk)**

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b) Describe four steps that should be followed when collecting soil samples. **(2mks)**

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c) State **two** precautions a farmer should take when collecting a representative soilsample from the field for testing. **(2mks)**

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SECTION C (40MKS)

Answer ALL questions in this section in the spaces provided.

26. a) Describe the production of tomatoes under the following:-

(i) Transplanting: **(5mks)**

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(ii) Field Management practices. **(5mks)**

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b) Give **six** advantages of drip irrigation. **(6mks)**

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c) Name Four methods of draining water in water logged / marshy areas. **(4mks)**

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27(a) What are disease predisposing factors? **(2mks)**

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(b) State **five** disease predisposing factors in livestock **(5mks)**

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(c) Explain any **four** general methods of disease control in livestock **(8mks)**

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d) Describe **five** management practices that should be carried out on a vegetable nursery after sowing until the seedlings are ready for transplanting. **(5mks)**

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EXCELLING STUDENTS FORM TWO
END TERM 3 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

BIOLOGY (231)

FORM TWO (2)

Time: 2 *Hours*

INSTRUCTIONS TO CANDIDATES

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

(b) Sign and write the date of the examination in the spaces provided above

(c) Answer ALL the questions in the spaces provided on the question paper

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

(e) Candidates should answer the questions in English

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

17	18	19	20	21	22	GRAND TOTAL

1.State two functions of bile salts. **(2mks)**

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2.Name the carbohydrate stored in:

(a) Cell wall …… **(1mk)**

(b) Mammalian liver …….. **(1mk)**

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3.A process that occurs in plants is represented by the equation below.

$C_6H_{12}O_6 \longrightarrow 2C_2H_5OH + 2CO_2 + \text{Energy}$

Glucose Ethanol Carbon (IV) oxide

(a) Name the process **(1mk)**

……

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(b) State two economic importance of process named in (a) in homes and industries. **(2mks)**

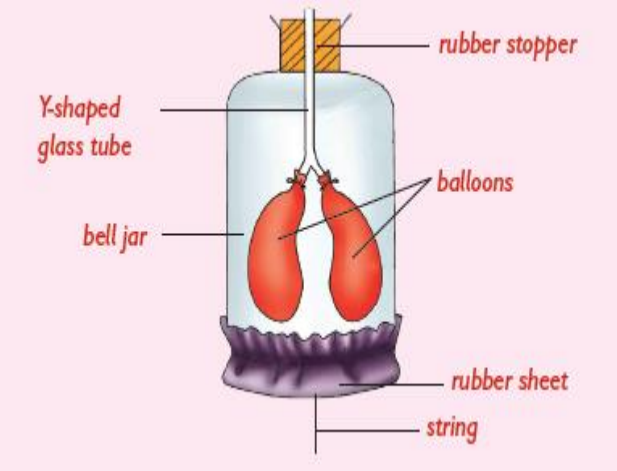
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4.A form two class set up the apparatus shown below to demonstrate the breathing mechanism in a mammal.



(a) What structures in a mammal is represented by each of the following. **(2mks)**

(i) Y-shaped glass tube

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(ii) The bell jar

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(b) Explain what will happen to the balloons if the rubber sheet is pulled downwards. **(3mks)**

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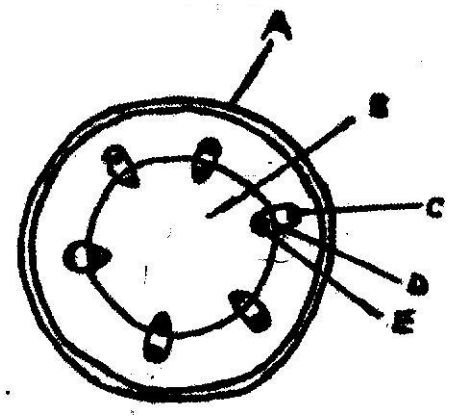
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5.The diagram below represents a transverse. Section of a young stem.



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

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(b) State functions of the part labeled C and D. **(2mks)**

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6.A person with blood group AB requires blood transfusion. Name blood groups of the donor. **(1mk)**

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

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b) Name the blood vessel that transports blood from:

(i) small intestine to the liver. **(1mk)**

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(ii) Lungs to the heart. **(1mk)**

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

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8.Name the most appropriate tool that Biology students can use for collecting

i.Crawling animals **(1mk)**

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ii. Flying insects **(1mk)**

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9.State the name given to the study of:

a) Cells **(1mk)**

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b) Classification of living organisms **(1mk)**

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10. a) Define the term <u>species</u> **(1mk)**

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b) A Tiger is known as Panthera Tigris

i.Identify two <u>mistakes</u> made in writing the scientific name **(2mks)**

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ii. Explain why a Leopard and a tiger cannot breed yet they belong to the same genus. **(1mk)**

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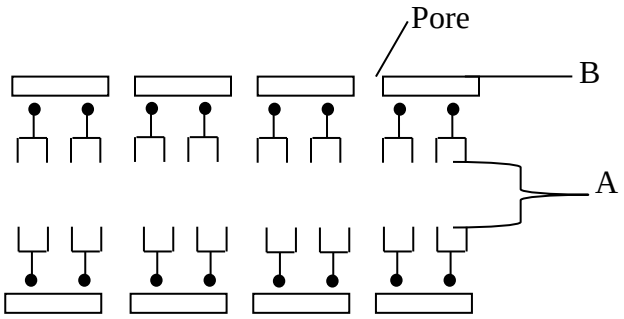
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11. A cell was magnified 200 times using a light microscope whose eye-piece lens magnification was X10.

What was the magnification of the objective lens **(3mks)**

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12. The cell structure below was observed under the light microscope



a) Identify the cell structure **(1mk)**

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b) Name the labeled parts A and B **(2mks)**

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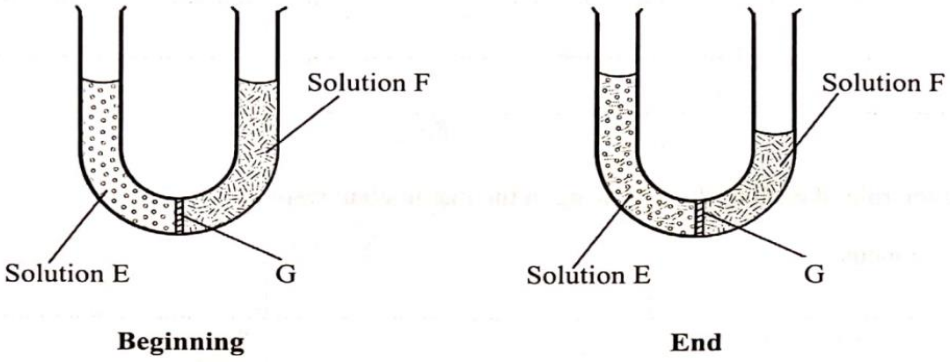
c) State one function of the above structure **(1mk)**

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13. In investigating a certain physiological process, form two students set up the apparatus as shown below and made the observations after 30 minutes as illustrated.



a) Name the physiological process being investigated in the experiment **(1mk)**

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b) Account for the observations made at the end of the experiment **(3mks)**

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c) State three importance of the process named in (a) above in plants. **(2mks)**

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14. a) Name the carbohydrates that is; **(3mks)**

i) Found in abundance in mammalian blood

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ii) Stored in mammalian liver

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iii) Stored in plant seeds

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15. The enzyme pepsin and trypsin are secreted as inactive precursors:

a) What are the name of the precursors **(2mks)**

pepsin ……

trypsin ……

b) Why are they secreted in an inactive form **(1mk)**

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16. State <u>two</u> structural and <u>two</u> environmental factors that affect the rate of transpiration

a) Structural **(2mks)**

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b) Environmental **(2mks)**

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17. Give an example of an animal with **(2mks)**

a) Open circulatory system

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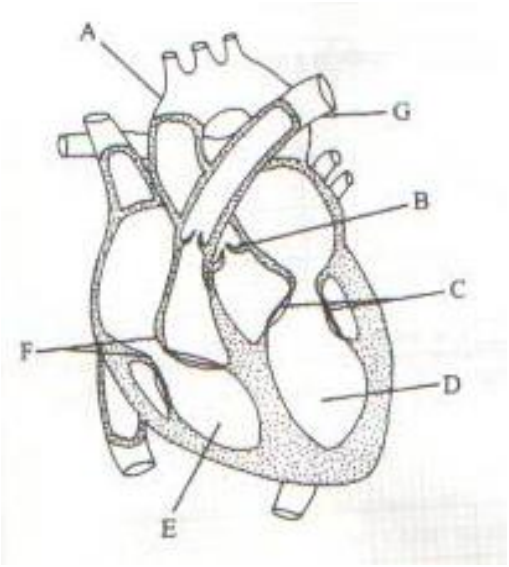
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b) Closed circulatory system

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18. The diagram below show the internal structure of a mammalian heart



a) Using arrows show the direction of blood flow in and out of the heart **(2mks)**

b) Name the parts labeled **(2mks)**

A: ……

C: ……

c) The muscular wall of chamber D is at least three times thicker than the wall of chamber E. Give a reason for this difference **(1mk)**

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d) Name two special characteristics of heart muscles which distinguishes it from other parts of muscles **(2mks)**

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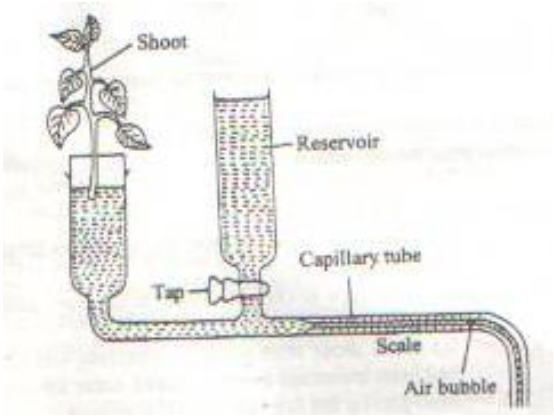
e) In what way does the artery labeled G differ from other arteries in the body **(1mk)**

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19. The figure below is a diagram of a potometer



a) What is it used for? **(1mk)**

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b) State one precautions which should be taken when setting up a potometer. **(1mk)**

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c) The rate of transpiration was determined under normal conditions in the laboratory. Giving reasons, explain the differences you would expect if the measurements were repeated under the following conditions.

i.The shoot is placed close to the heat source **(2mks)**

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ii. Some leaves are removed **(2mks)**

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iii.The shoot is placed in a current of air created by a fan **(2mks)**

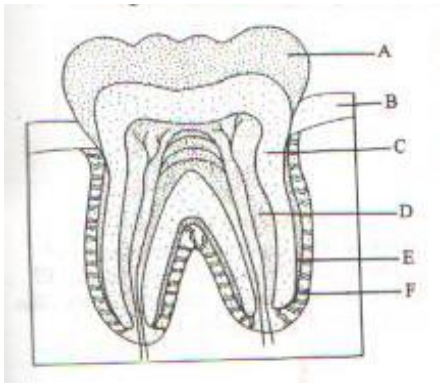
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20. The figure below is a diagram of a vertical section of a mammalian tooth



a) Name the parts labeled A and C **(2mks)**

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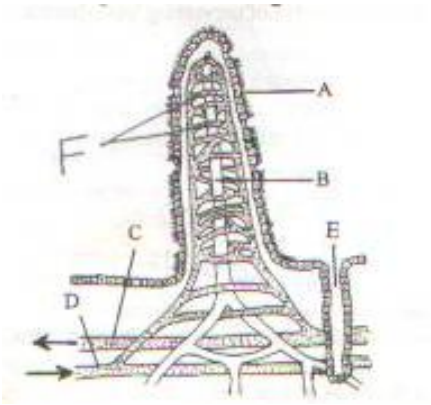
b) How are the structure labeled D adapted to its functions **(2mks)**

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21. The figure below is a diagram of an intestinal villus. Study it and answer the questions that follow.



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a) Name the parts labeled C and D **(2mks)**

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b) What is the importance of the villi? **(1mk)**

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c) What is the function of the part labeled F **(1mk)**

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d) Most of absorption of digested food in mammals takes place in the ileum. In what way does it length adapt it to this function **(1mk)**

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22. Explain how the following factors determine daily energy requirements in human beings.

(a) Sex

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(b) Age

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EXCELLING STUDENTS FORM TWO
END TERM 3 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

BUSINESS STUDIES (565)

FORM TWO (2)

Time: 2 *Hours*

1.Highlight four benefits of learning business studies to a form four leaver **(4Mks)**

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2.Highlight four advantages of operating a partnership compared to a sole proprietorship form of business **(4Mks)**

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3.Highlight four reasons why a cheque may be dishonoured **(4Mks)**

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4.Indicate the form of external environmental factor described by the statement below. **(4mks)**

Description	**External environmental factor**
Introduction of a law banning use of polythene bags	
Religious sect that is against medicine	
Construction of the Standard Gauge Railway	
Price wars between Naivas and Quickmatt supermarkets	

5.Outline the procedure followed in personal selling **(5mks)**

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6.State four factors to consider when selecting a means of transporting cash **(4Mks)**

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7.Give four circumstances in which downward communication is used. **(4mks)**

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8.Outline four characteristics of a successful entrepreneur **(4Mks)**

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9.Highlight four ways in which the Kenyan government regulate business activities **(4Mks)**

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10. Outline four reasons why consumers must make a choice when satisfying their wants **(4mks)**

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11. Identify the level of production described by each of the following information **(4mks)**

DESCRIPTION	**LEVEL OF PRODUCTION**
Mrs. Otieno counseling form four students	
Jubilee insurance company selling their policies	
A carpenter making dining tables	
A farmer harvesting his potatoes	

12. Outline four roles played by the Nairobi Securities Exchange (NSE) market in Kenyan economy **(4Mks)**

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13. Highlight four circumstances under which a trader may be said to be engaging in unethical business practices **(4mks)**

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14. Duka traders had goods worth Ksh. 150,000 which was insured for Ksh. 100000 against the risk of fire. Fire occurred and the goods were partially destroyed, the loss being Ksh. 90,000. Calculate how much compensation was paid by the insurance company to Duka traders**.** **(3mks)**

15. Outline four limitations of advertising goods in newspapers. **(4Mks)**

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

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17. Outline four currents trends in the transport sector in Kenya. **(4Mks)**

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18. Highlight four reasons behind the continued use of letters in communication despite the presence of other newer means of communication**.** **(4Mks)**

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19. Explain five factors a business may consider when choosing office equipment **(10Mks)**

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20. Explain five differences between life assurance and general insurance **(10Mks)**

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21. Explain four ways in which warehousing facilitates trade **(8mks)**

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EXCELLING STUDENTS FORM TWO
END TERM 3 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

CHEMISTRY (233)

FORM TWO (2)

TIME: 2 HOURS

INSTRUCTIONS TO THE CANDIDATES:-

1) Write your **Name** and **Admission number** in the spaces provided.

2) Answer ***all*** the questions in the spaces provided.

3) All working **MUST** be clearly shown where necessary.

For Examiner's Use Only

Question	Maximum score	Candidate's score
1-20	80	

1. Define the following terms:

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

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

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

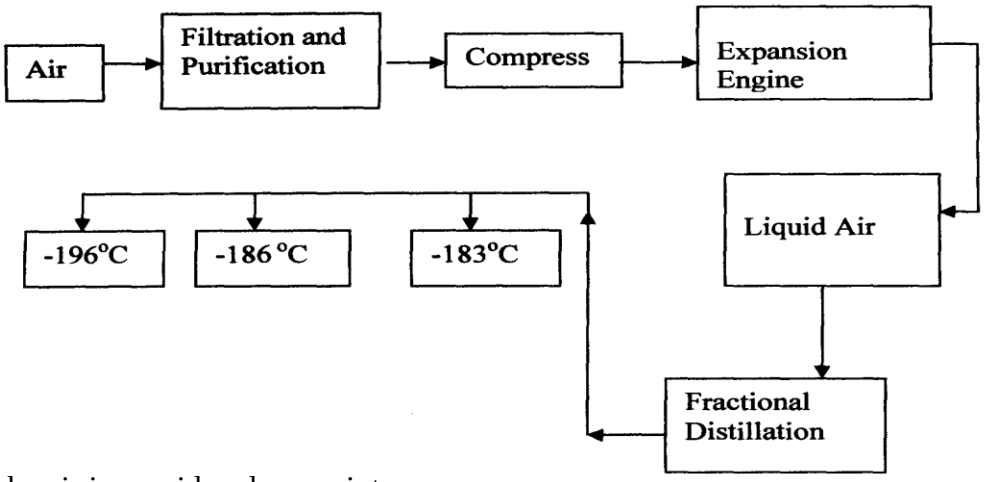
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2.Oxygen is obtained on large scale by the fractional distillation of air as shown on the flow chart below.



a) Explain why air is considered as a mixture (**2mk**)

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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. (**2mks**)

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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 (°C)		801	113 OR 119	-39	5	-101	1356
Boiling point (°C)		1410	445	457	54	-36	2860
	Solid	Poor	Poor	Good	Poor	Poor	Poor
	liquid	Good	Poor	Good	Poor	Poor	Poor

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Identify with reasons the substances that:

(i) Have a metallic structure (**2mks**)

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(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**)

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

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6 . Define the following terms:

I. A saturated solution. (**2mks**)

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II. Crystallization. (**2mk**)

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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 follow. 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? (**1mk**)

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

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(c) Compare the atomic and ionic radii of element L. (**2mks**)

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9.Write the chemical formula 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 vendors instead of ordinary ice. (**2mks**)

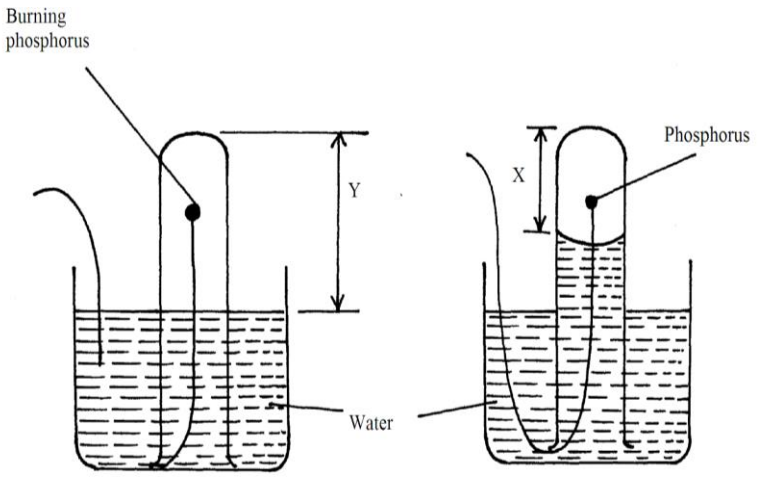
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11. A student set-up the apparatus below in order to determine the percentage by volume of oxygen in air.



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

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

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

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Why was the volume of oxygen calculated using the above expression incorrect? (**2mks**)

c) What should have been done after the reaction had stopped in order to get a correct volume. **(2mks)**

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

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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**)

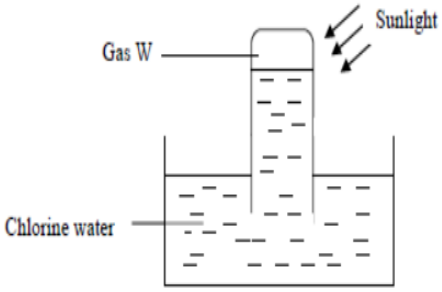
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14. In an experiment, a test tube of chlorine gas was inverted in water as shown in the diagram. It was then left to stand in sunlight for one day.



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

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

……

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

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

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

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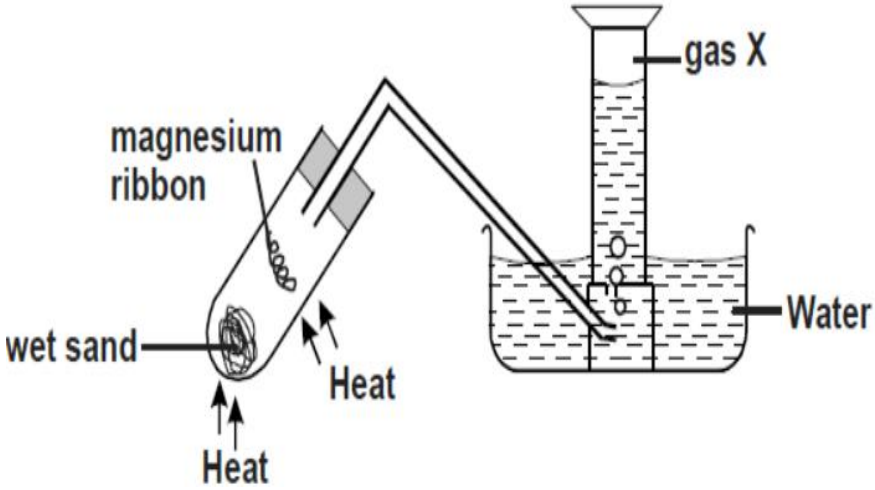
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15. A student set up the experiment below to collect gas K. the glass wool was heated before heating the magnesium coil.



(a). Explain why it was necessary to heat the moist cotton wool before heating the magnesium. (**2mks**)

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(b). Identify gas X. (**1mk**)

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

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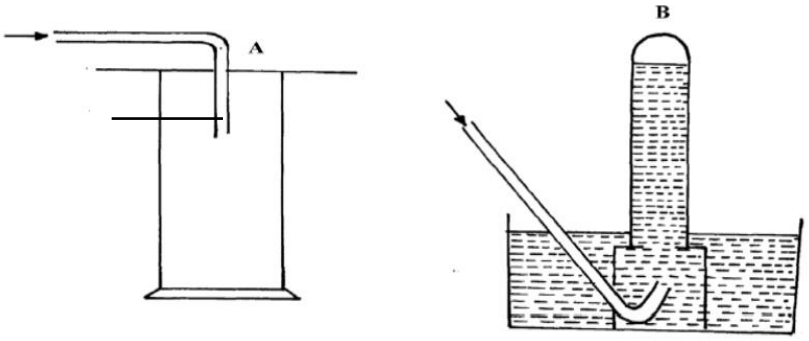
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(d). Write a chemical equation for the reaction that produced gas K. (**2mks**)

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



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(i). Name the methods of gas collection above. (**2mks**)

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

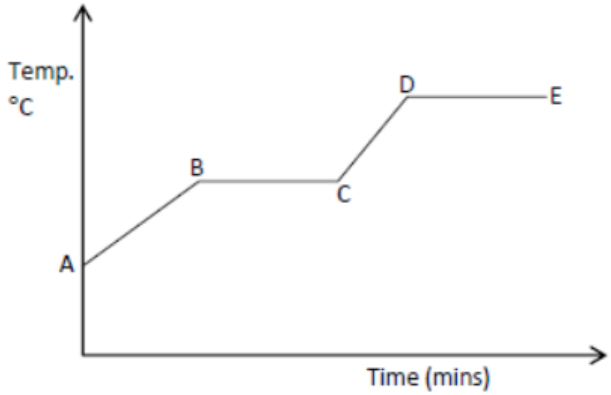
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17. The curves bellow represent the variation of temperature with time when pure and impure samples of a solid were heated separately.



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

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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**)

20. By use of dot (.) and cross (x) diagram show bonding in magnesium chloride ($mgCl_2$) (**2mks**)

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EXCELLING STUDENTS FORM TWO
END TERM 3 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

COMPUTER STUDIES (451)

FORM TWO (2)

Time: 2 Hours

INSTRUCTION TO CANDIDATES

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

FOR EXAMINER'S USE ONLY

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

SECTION A (40 MARKS)

Answer ALL the questions in SECTION

1.

(a) State two emerging issues that affect email technology **(1mk)**

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(b) Describe three advantages of using computers in banking **(3mks)**

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2.Describe three situations under which warm booting of a computer may be necessary **(3mks)**

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3.Briefly describe the following terms as used in Data Security **(3mks)**

(i) Patch

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(ii) Threat

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(iii) Vulnerability

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4.Give three devices under the control of operating system **(3mks)**

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5.What is automatic recalculation **(2mks)**

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6.Computers evolved through different technological advancement from the first generation to the fifth generation. Differentiate between the 2^{nd} and 3^{rd} generation computers in terms of Inputs, Technology and Programs **(3mks)**

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7.Explain the function of a master page as used in desktop publishing software **(2mks)**

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8.Describe the term portability with regard to software and hardware **(2mks)**

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9.With an aid of an example explain the main parts of an URL **(3mks)**

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10. State three causes of data loss in computing **(3mks)**

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11. Define the term proofreading **(1mk)**

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12. Explain the functions of the following disk management operations **(2mks)**

(i) Disk defragmentation

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(ii) Disk partitioning

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13. State main functions of the graphic adapters **(2mks)**

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14.

(i) Write the equivalent R1C1 reference for F17 **(2mks)**

(ii) The formula =$A1+C2 is initially typed in cell D1. What will it be when copied to cell E1 **(2mks)**

15. Briefly describe three factors to consider when choosing an ISP **(3mks)**

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SECTION B (60 MARKS)

16.

(a) Name three facilities that are needed to connect to the internet **(3mks)**

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(b) State three ways students can benefit by having internet in school **(3mks)**

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(c) Write the following abbreviations in full **(3mks)**

URL

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WWW

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HTTP

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(d) Use the table below to answer the questions that follow

Student Details

AddNO	Name	DOB	Mark1	Mark2	Total
12345	John Odhiambo	01/01/1978	50	40	90
14567	Walter Sign	05/09/1987	50	20	70
13576	Erick Bakilo	27/10/2000	56	40	96

(i) Identify the most appropriate type for AddNO **(1mk)**

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(ii) Write an expression that will restrict entries of future dates in the DOB column **(1mk)**

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(iii) Given that the data type for Total is calculated write an expression that will be entered in the expression builder to enable the user set this data type **(2mks)**

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(e) Describe two main functions of a form as a database object **(2mks)**

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17.

(i) State the spreadsheet function that can be used to obtain each of the following values in a worksheet

(a) Assign the students position based on the performance **(1mk)**

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(b) Calculate the total score of marks that are greater than mean mark **(1mk)**

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(c) Number of cells with a value in a column **(1mk)**

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(d) i) Get the number with the highest value in a row **(1mk)**

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(ii) Name four table formatting features **(4mks)**

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(iii) State three tools in a word processor that would help a user to minimize spelling mistakes when creating a document **(3mks)**

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(iv) 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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18.

(a) Define the term warranty **(2mks)**

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(b) The Head teacher of Mooch intends to buy a printer for the finance office for printing payment receipts

(i) Advise him on the appropriate type of printer he would purchase. **(1mk)**

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(ii) Name three consideration he should observe before purchasing the output device **(3mks)**

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(c) Mention three challenges of using an online record to keep track of patients **(3mks)**

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(d) Computer is built from three types of physical components, Processor, memory and I/O devices. State the functions of each of the above components **(3mks)**

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(e) List two characteristics of Static RAM **(2mks)**

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19.

(a) Mention three features of a USB cable **(3mks)**

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(b) Enumerate three advantages of standard software over in house developed software **(3mks)**

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(c) Give two reasons to justify why operating system must be installed first in a computer **(2mks)**

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(d) State any four differences between older generation computers and present computers **(4mks)**

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(e) What precautions would you take in the computer room in case of the following **(3mks)**

(i) The humidity falls below normal for long periods due to weather changes

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(ii) User complain of backache after long period of using computers

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(iii) Improper air circulation

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EXCELLING STUDENTS FORM TWO
END TERM 3 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

CHRISTIAN RELIGIOUS EDUCATION

FORM TWO (2)

Time: 2½ Hours

Answer **ALL** the Questions

1 a. Identify five poetic books in the Bible **(5mks)**

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b State four effects of sin on Adam and Eve **(4mks)**

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2 a. List five animals used in the making of the covenant between God and Abraham **(5mks)**

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b. Give reasons why circumcision was important to the Jews **(5mks)**

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3 a. State Five ways in which God revealed himself to the Israelites on Mount Sinai **(5mks)**

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b. List forms of worship that were practised by the Israelites in the wilderness which are found in Christian worship today **(5mks)**

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4 a. Name five specialists in traditional African communities **(5mks)**

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b. Identify moral values taught to the youth during initiation **(6mks)**

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c. State six requirements that one must fulfil to be made an elder in traditional African community **(5mks)**

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5 a. List Five titles that prophet on the suffering servant **(5mks)**

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b. Explain the Jewish expectation concerning the Messiah **(7mks)**

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c. Give Six lessons Christians learn from the parents of John the Baptist **(6mks)**

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6 a. Describe the call of the first disciples **(8mks)**

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b. Give five reasons why Jesus was rejected at Nazareth **(5mks)**

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c. List five miracles which shows that Jesus had authority over nature **(5mks)**

7 a. Describe the incident in which Jesus forgave the sinful woman (Luke 7:36-50) **(7mks)**

b. State five lessons Christians learn from the incident in which Jesus forgave the sinful woman. **(5mks)**

c. State the teaching of Jesus on how a Christian should approach God on prayer **(7mks)**

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EXCELLING STUDENTS FORM TWO
END TERM 3 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

ENGLISH (101)

FORM TWO (2)

Time: 2 ½ Hours

INSTRUCTIONS

- Answer ALL the questions.
- Write your name and Adm. Number in the spaces provided.
- All answers MUST be written in the spaced provided in this question paper.
- All answers should answer the questions in English.

QUESTION	MAXIMUM	SCORE
COMPREHENSION PASSAGE	20	
FUNCTIONAL WRITING	20	
CLOZE TEST	10	
ORAL SKILLS	20	
ORAL LITERATURE	15	
GRAMMAR	15	
TOTAL	100	

1.Read the passage below and then answer the questions that follow. (20mks)

Discipline is something that we have all experienced personally in different forms, seen used on others, and is also something that many of us will go on to use later in life, both in the form of self-discipline and as something to keep children and even employees in check. It is essential to life as we know it, and we need it in its many different forms in many different situations.

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The first reason that discipline is so important is that we all need to exercise self-discipline to be successful in life. Self-discipline can mean very different things to different people; for students, for example, self-discipline is often about motivating yourself and making yourself concentrate on your studies and get your assignments in on time. For working people, it can be as simple as getting up on time every morning, however tired you may be and how much you may hate your job, getting to work on time and doing your job. Without this kind of self-discipline, people would not be able to enjoy academic success, or be successful in their careers either.

Self-discipline is also required for dieters and anyone doing regular exercise, because given the chance, most of us would prefer to be lazy rather than get up and exercise, and eat burgers and fries rather than healthy food. Without it, even more people would be fat and unhealthy, and a lack of self-discipline in some people certainly contributes to the obesity crisis.

Discipline is also something that needs to be used on others where necessary. If parents didn't discipline their children when they were naughty, children wouldn't grow up knowing right from wrong, or be able to become productive members of society who contribute to the system. Equally, schoolteachers need to be able to dish out punishments to children who don't behave themselves. Without discipline in the classroom, there would be a great deal of **disruption** and nobody would ever learn anything. Indeed, teachers who struggle to command the respect of students and who fail to use discipline effectively will often have trouble even making themselves heard in a classroom.

In the workplace, discipline is also essential to maintaining a hierarchy and dealing with employees who do not follow company policies and procedures, regularly arrive late or not at all, or treat their co-workers unfairly. Then, you have to consider that without discipline, there would be no law enforcement. Murderers would be **roaming** the streets and everybody would be stealing from each other, because there would be no consequences for their actions.

Discipline acts as a **vital** deterrent to stop children being naughty, people from missing work, and even potential criminals from stealing and killing, and for this reason it is vital in human society.

(a) In which forms can discipline be used later in life of a person? **(2mks)**

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(b) What would become of naughty children if parents didn't discipline them according to the passage? **(2mks)**

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(c) What does self-discipline mean to a student according t the passage? **(2mks)**

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(d) In note form, state the reasons for discipline. **(4mks)**

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(e) How does absence of discipline lead to no law enforcement according to the passage? **(3mks)**

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(f) What **three** things does discipline restrict one from doing according to the passage? **(3mks)**

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(g) **Equally**, schoolteachers need to be able to dish out punishments to children who don't behave themselves. **(1mk)**

Replace the word in bold with a word with similar meaning.

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(h) Explain the meaning of the following expressions As used in the passage. **(3mks)**

i) Disruption

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ii) Vital

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iii) Roaming

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2.FUNCTIONAL WRITING

You are throwing a party at home for your 15th birthday. You have planned to invite your friends through a card. If there are five special guests and master of ceremonies invited, design that card that you will send them.

(20mks)

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3.CLOZE TEST

Read the passage below and then fill in the blank spaces. Use only ONE word in each space. (10mks)

Safety is one of the most essential factors that one should look at while driving a vehicle. When it comes to driving a vehicle, one could either be a good driver or someone **…1…….……**can't drive. There is no in-between status for a driver. Now-a-days it's becoming more and **….2 …….…….** common for road accidents to take up the headline space in a daily newspaper. Many people lose their **…3……..**in road accidents. One should pay full attention while driving a vehicle and completely **…4……..……** any distractions. It is also an automobile owner's responsibility to keep his vehicle in the best condition so as to avoid any accident **……5……** driving on road. While driving a vehicle the responsibility for one's life and the life of others rests with the driver of the vehicle.

There **…6……..…….** all types of drivers on the road, from teenagers to the elderly. Everyone on the road **…7…….……..** supposed to be licensed. Unfortunately, a driver's license does not always ensure common sense and responsibility on the road. Safe driving is crucial because things can happen behind the wheel in a fraction **…8……** second.

Year over year accidents increases even though infrastructure of nation is growing fast and providing better ways of driving on the roads especially highways. Previously there were single lane and now the double lane, four lanes and six lanes **…9…….……** come. But number of road accidents increased with the luxury transports and heavy vehicles. Government and many non-profit NGOs organize road safety weeks and create awareness about the **…10…….**safety.

4.ORAL SKILLS **(20Mks)**

a.<u>Read the poem below and answer the questions that follow.</u>

<u>INFANT SORROW</u>

My mother groaned, my mother wept;
Into dangerous world I leapt;
Helpless, naked, piping loud,
Like a friend hid in a cloud.

Struggling in my father's head
Struggling against my
Swaddling-bands
Bound and weary I thought best
To suck upon my mother's breast.

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QUESTIONS:

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

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

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b. Which words are pronounced the same as the ones below? **(5mks)**

i. Manner- **……**

ii. None- **……..**

iii. Mind- **……...**

iv. Rest- **……**

v. Shoe- **……..**

c. Identify the silent letter in the following words **(4mks)**

i. Cologne **……**

ii. Aisle **……**

iii. Circuit**……..**

iv. Would**……..**

d. Your class has been invited to participate in the Great Debators Contest.

Explain any five important preparations you would make to ensure that your side will be successful. **(5mks)**

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5.ORAL LITERATURE

Read the narrative below then answer the questions that follow. 15Marks

One day on a farm, cat took out her walking stick and started to walk laboriously along the road, leaning heavily on her stick. Hen, who was pecking at the ground nearby, looked up and said, "Aunty Aunty, where are you going?"

The cat said, "I am off to the holy city to give my annual offering". Hen said, "May I come with you? I will accompany you on your long journey and at the same time perform my pilgrimage as well". Cat replied "If you must, there is no stopping you". So both of them started moving further on the road. Then they met Duck. Duck said, "Aunty, where are you going?"

Cat replied, "Come if you must," Duck joined them.

A little ahead they met Mouse. Mouse asked, "Aunty where are you going?" Cat replied, "I am going to the holy city," Mouse asked, "May I come along with you?"Cat said, "If you want to dear." They walked along the road for sometime then cat said, "Oh my old bones, now they ache ohoo." The three stopped and offered to rest along with her. Cat said, "Hen may wait with me if she likes, the two of you go on ahead. We will catch up with you." The cat pounced on the Hen and ate her up.

After a few hours, Cat caught up with Duck and Mouse. When they enquired about Hen, Cat said, "Oh, she had forgotten her offering at home and has gone back for it," And they walked on.

The next day Cat began to groan again, and this time asked Duck to stay with her. Mouse went on ahead. When Cat caught up with Mouse she said Duck has forgotten her offering as well.

At this Mouse got suspicious for if Duck forgotten her offering as well she would have turned back with Hen. Meanwhile, Cat thought: "Now it is the turn of Mouse, what a delicacy! The taste will linger for a long time in my mouth."

Then she said to the Mouse, "Mouse let us stop for a rest." After a while she said, "It is long since I played catch and catch with anyone. Why don't I fulfill this desire for who knows how long I have to live?"

Mouse began to play; he ran here and there; soon he realized that Cat was out to get him so he quickly darted into a hole in the ground. Now cat know she could not get Mouse so she said, "Mouse, Mouse, come out. I want

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to tell you a story," Craftily Mouse replied, "You tell the story and I will listen to it in here."
So, you see whenever Mouse sees Cat, he runs quickly to hide for he knows that Cat is after him. He has not forgotten the uncompleted journey to the holy city.

(a) Giving a reason, classify this narrative. **(2mks)**

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(b) What features of oral narratives are evident in this story? Explain any 4. **(2mks)**

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(c) Briefly explain any two character traits of the Cat in this story. **(4mks)**

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(d) What two lessons do we learn from the story? **(2mks)**

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(e) Why do you think the Duck did not complete the journey? **(1mks)**

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(f) What does the story reveal about the community from which the story was taken? **(2mks)**

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(g) Explain the two problems you could encounter when collecting this type of oral genre. **(2mks)**

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6. GRAMMAR (15Mks)

(a) Rewrite the following sentences according to the instructions after each. (4mks)

(i) Tom likes eating rice than taking tea. Rewrite beginning: Tom prefer

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ii. Someone is following us. (Rewrite in the Passive voice)

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iii. Otieno will not participate in the elections if he does not clear himself of the corruption charges. (Begin: Unless...)

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iv) Juma said that he would be going to Nairobi the following day. (Rewrite in direct speech)

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(c) After each of the following sentences indicate if the underlined word is a possessive pronoun or a possessive adjective. (4mks)

i) This pen is <u>mine</u> ……

ii) This is her bag ……

iii) The class is <u>ours</u> ……

iv) BBI is <u>their</u> project ……

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(d) Fill in the blank spaces with the appropriate complex preposition **(3mks)**

(i) I am calling…**…….**my father

(ii) ……cost, it is not worth much.

(iii) We went **…….**Nakuru but we did not see Muturi.

(b) Choose the correct words from the ones given in the brackets **(4mks)**

i. She works harder than**……** (he/him)

ii. Uncle Jeff gave**…….** (my twin sister and I / me and my twin sister) mobile phones on our birthday.

iii. (He/Him)**……** being the eldest in the family, has to shoulder all the responsibility.

Iv. Between you and **……..**(she/her), who took the book to the teacher?

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EXCELLING STUDENTS FORM TWO
END TERM 3 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

GEOGRAPHY (312)

FORM TWO (2)

Time: 2 ½ Hours

INSTRUCTIONS:

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

b). Answer all the questions in both sections

c). All answers must be written in the spaces provided in this booklet.

SECTION A

1 (a) Define the following terms as used in Geography

(i) Galaxy **(1Mk)**

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(ii) Orbit **(1mk)**

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(b) State two types of earth movement that occurs within the earth's crust **(2mks)**

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(c) With the aid of well labeled diagram, describe the occurrence of lunar eclipse **(4mks)**

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2.(a) Differentiate between weather and climate **(2mks)**

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(b) Give three factors that influence the amount of rainfall in a place **(3mks)**

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3. Mention the three types of igneous rocks **(3mks)**

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4.(a) Apart from open cast, give any another two methods of mining **(2mks)**

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(b) Explain two effects of open cast mining method on the environment **(4mks)**

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5 (a) what is an earthquake? **(1mk)**

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(b) Give two types of earthquake waves **(2Mks)**

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SECTION B

6. The table below shows the value of export crops from Kenya between 1995 and 1997 in million Kenya shillings.

Use it to answer the questions that follow:

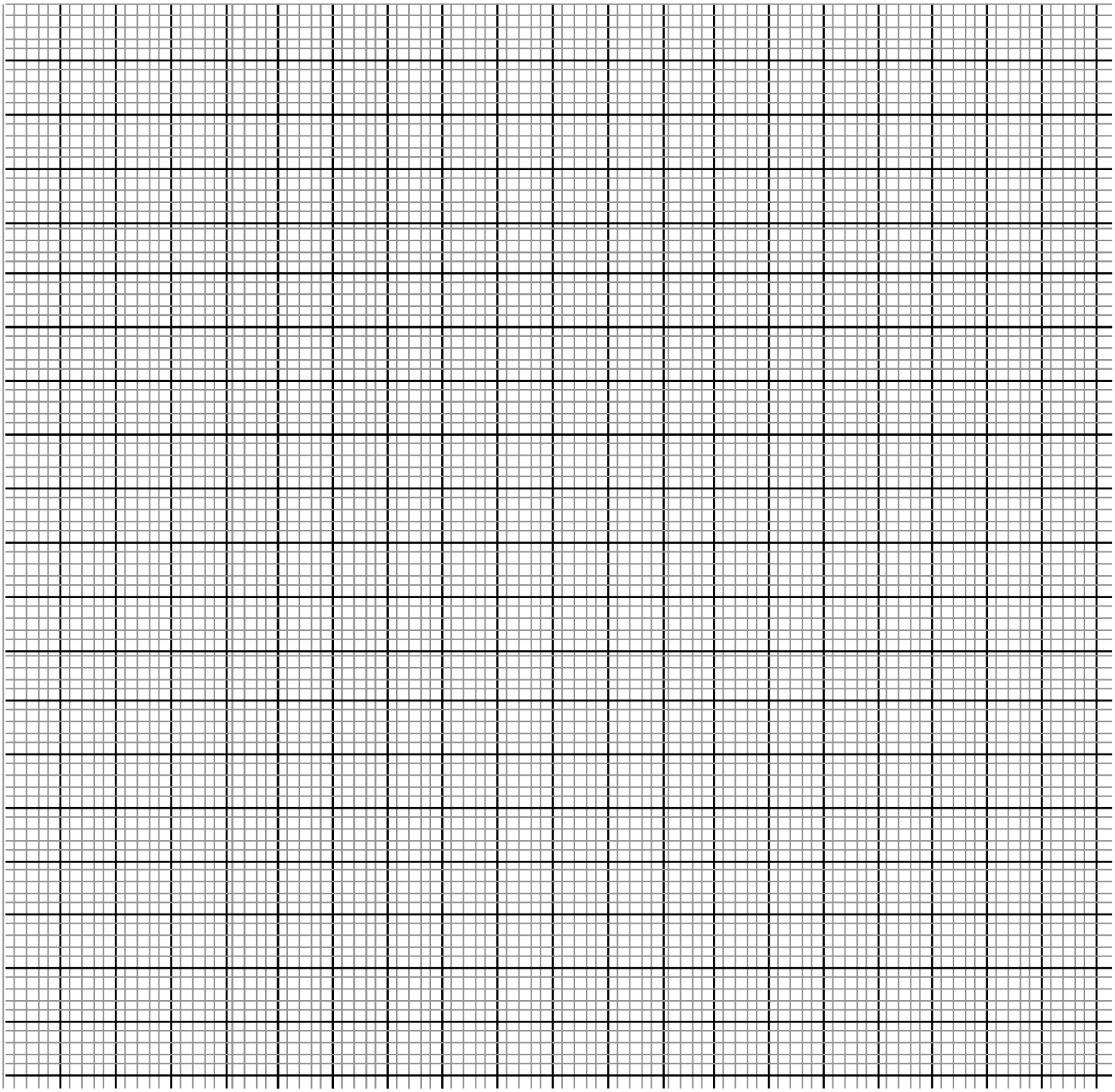
Crop/Year	1995	1996	1997
Maize	224	210	360
Coffee	168	190	267
Tea	320	280	299
Total	712	680	926

(a) (i) Calculate the total export value for maize **(2mks)**

(ii) Calculate the range of the total export value for the three years **(2mks)**

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(b) (i) On the graph paper provided, draw a comparative bar graph. Use a scale of 1cm represents 50 million Kenya shillings **(9mks)**



(ii) State two advantages of using comparative bar graphs **(2mks)**

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7. (a) (i) List down three causes of earth movement **(3mks)**

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(ii) Describe the continental drift theory **(6mks)**

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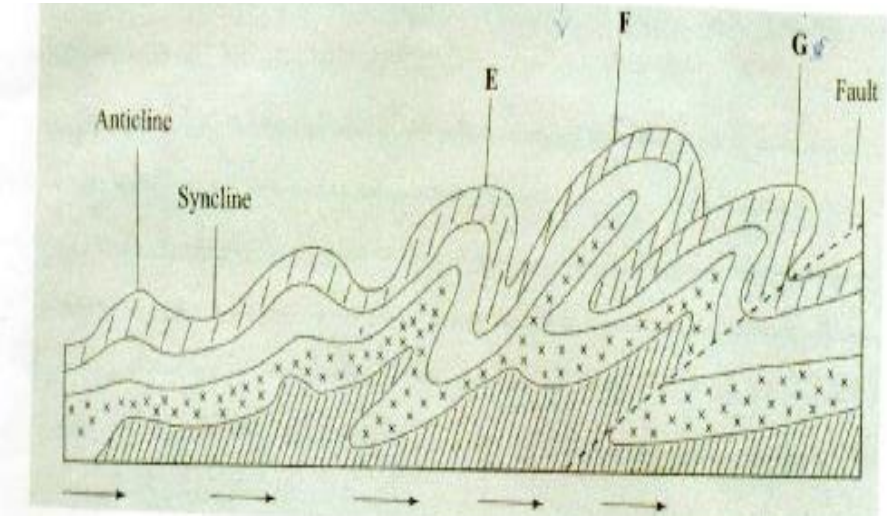
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(b) The diagram below shows types of folds. Use it to answer the questions that follow.



(i) Name the types of folds marked: **(3mks)**

E – ……..

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F – ……..

G - ……..

(ii) Name the continents in which the following fold mountains are found **(4mks)**

Atlas –**.....**

Alps -**.....**

Andes –**.....**

Himalayas -**.....**

c.(i) Distinguish between an upthrow and down throw in a faulted region. **(1mk)**

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(ii) Give two examples of fault scarps in Kenya **(2mks)**

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d.(i) Name two types of vulcanicity **(2mks)**

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(ii) State any two causes of vulcanicity **(2mks)**

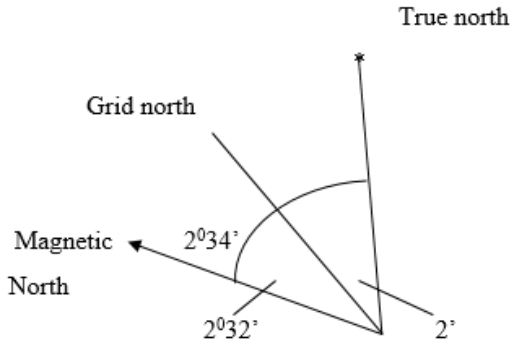
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8. Use the diagram below to answer the question that follows

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(a) From the above diagram, what is the Magnetic declination **(2mks)**

(b) Give three methods used to represent relief on topographical maps **(3mks)**

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(a) (i) What is a photograph? **(1mk)**

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(ii) Name the three main parts of a photograph **(3mks)**

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9.(a) Name the main grasslands found in the following areas **(3mks)**

(i) Argentina **.....**

(ii) Australia **.....**

(iii) South Africa **.....**

(b) State four characteristics of savannah vegetation **(4mks)**

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10.(a) Explain the meaning of the terms

(i) Desertification **(1mk)**

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(ii) Micro- climate **(1mk)**

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(b) (i) Name any two greenhouse gases **(2mks)**

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(ii) State four characteristics of equatorial climate **(4mks)**

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11.(a)(i) Differentiate between afforestation and re-afforestation **(2mks)**

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(ii) Explain three importance of forests **(6mks)**

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(b) Your class intends to carry out a field study in Mt. Kenya forest

(i) Give two reasons why you will require a route map for your study **(2mks)**

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(ii) State one objective for your study **(1mk)**

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(iii) Outline any one two problems you are likely to face in your field study **(2mks)**

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EXCELLING STUDENTS FORM TWO
END TERM 3 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

HISTORY AND GOVERNMENT (311)

FORM TWO (2)

Time: 2 *Hours*

INSTRUCTIONS TO CANDIDATES

- This paper has **THREE** sections: A, B and C
- Answer **ALL** questions in sections **A, B and C**
- All answers **MUST** be written in the Foolscap papers provided.

Section A	Question	Maximum score	Candidates Score
	14	**25**	
	18	**15**	
	19	**15**	
	20	**15**	
	21	**15**	
	22	**15**	
TOTAL		**100**	

SECTION A (25 MARKS)

ANSWER ALL THE QUESTIONS

1. State the main method used by anthropologists to gather information. **(1mk)**

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2. Identify the method used in making Sangoan tools**.** **(1Mk)**

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3. State two ways in which Kenyan communities interacted with each other in the pre-colonial period. **(2Mks)**

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4. Give the main role of age –set system among the Agikuyu **(1Mk)**

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5. State two functions of Fort Jesus during the Portuguese rule. **(2Mks)**

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6. Identify one level of conflict in the society. **(1Mk)**

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7. Name two national activities that promote national unity in Kenya. **(2Mks)**

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8. State one advantage of using human portage as a means of transport. **(1mk)**

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9. Give two contributions of the Egyptians to the development of early science. **(2mks)**

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10. Name one type of spirit that existed that existed among the Shona **(1mk)**

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11. Identify one advantage of barter as a system of exchange in Trans-Saharan trade **(1mk)**

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12. Give two inventions that revolutionized food preservation during the 19th century **(2Mks)**

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13. Give two advantages of using the steam engine in the transport industry in th19thcentury. **(2mks)**

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14. State two economic effects of the industrial revolution in North America. **(2mks)**

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15. State two factors which led to the growth of Meroe as an urban center**.** **(2mks)**

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16. Identify the constitutional amendment that was repealed to revert to a multi-party state in Kenya in 1991 **(1mk)**

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17. What is direct democracy? **(1Mk)**

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SECTION B (45 MARKS)

ANSWER ALL THE QUESTIONS

18a) Outline three physical characteristics of the Egyptian ape **(3Mks)**

b. Describe the culture of the early man during the Old Stone Age **(12Mks)**

19a. State three effects of using electricity in industries in Europe during the 19th Century**.** **(3Mks)**

b. Explain six effects of scientific inventions on agricultural development in Europe in the 19th Century. **(12Mks)**

20 a) Give three uses of bronze in Benin Kingdom**.** **(3mks)**

b. Explain six ways in which discovery of iron in Africa affected communities. **(12Mks)**

SECTION C (30 MARKS)

ANSWER ALL THE QUESTIONS

21. (a) State three survival rights of a child in Kenya. **(3mks)**

(b) Explain six responsibilities of a Kenyan citizen. **(12mks)**

22 a) State three ways in which direct democracy is practiced in Kenya **(3mks)**

b) Explain six advantages of democracy **(12Mks)**

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EXCELLING STUDENTS FORM TWO
END TERM 3 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

HOME SCIENCE (441)

FORM TWO

Time: 2 *Hours*

Instructions to students

a. Write your name, admission number and class in the spaces provided
b. Sign and write the date of the examination in the spaces provided
c. This paper consists of **three** sections: **A**, **B** and **C**
d. Answer **all** the questions in sections **A** and **B** and any **two** questions from section **C**
e. Answers to all the questions must be written in the spaces provided in the paper
f. Students should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing
g. Students should answer the questions in English

For examiner's use only

Section	Question	Maximum Score	Student's Score
A	1-20	40	
B	21	20	
	22-24	20	
		20	
TOTAL SCORE		100	

SECTION A: (40 marks)

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

1. Give **two** qualities of a good clothes storage facility. **(1mk)**

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2.List **two** conspicuous seams. **(1mk)**

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3.Mention **two** effects of low protein intake in a child. **(2mks)**

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4.Giving a reason in each case, name **two** nutrients that are important in the diet of a teenager who is recovering from a serious accident. **(2mks)**

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5.Mention **three** precautions to observe when buying a house. **(3mks)**

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6.Highlight **two** rules to observe when deep frying food. **(2mks)**

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7.Give **two** dangers of a poorly maintained home compound. **(2mks)**

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8.State **three** signs/symptoms of pellagra. **(3mks)**

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9.Give **two** ways of repairing a gaping hole in an article. **(1mk)**

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10. Highlight **two** ways of maintaining healthy hair. **(2mks)**

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11. Identify **three** reasons for using pegs when drying clothes. **(3mks)**

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12. Give **four** different needles used in needlework. **(2mks)**

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13. Suggest **two** differences between a French seam and an open seam. **(2mks)**

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14. Give **two** qualities of a good tape measure. **(2mks)**

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15. Highlight **three** general characteristics of synthetic fibres. **(3mks)**

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16. Mention **two** causes of food borne diseases. **(2mks)**

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17. Highlight **two** ways marasmus differs from kwashiorkor. **(2mks)**

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18. Suggest **two** reasons for tacking before making permanent stitches**.** **(1mk)**

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19. List **four** stitches that may be used to hold a hem permanently. **(2mks)**

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20. Suggest **two** reasons why water should be directed away from washing area outside a dormitory. **(2mks)**

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SECTION B: (20 marks)

COMPULSORY

Answer question 21 in the spaces provided after the question

21. You are visiting your grandmother during the long December holiday. Outline the procedure you will follow in:

a.Cleaning her green loose coloured canvas shoes. **(8mks)**

b. Laundering her woolen shawl. **(12mks)**

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SECTION C: (40 marks)

*Answer any **two** questions from this section in the spaces provided at the end of the section.*

22.

a. Discuss **three** reasons why water is important in the body. **(6mks)**

b. Highlight **five** qualities of a well-made french seam on the side of a pair of shorts. **(5mks)**

c. Identify **three** causes of a tear in a garment. **(3mks)**

d. Explain **three** reasons why a Home Science student should know the basic parts of a sewing machine. **(6mks)**

23.

a. Discuss **four** reasons why people in certain regions of the country may be suffering from Marasmus currently. **(8mks)**

b. Mention **four** factors to consider when selecting a method of cooking for visitors. **(4mks)**

c. Identify **four** reasons why a teenager may suffer from anorexia. **(4mks)**

d. Highlight **four** differences between dry and wet beriberi. **(4mks)**

24.

a. Highlight **five** factors to consider when buying cleaning equipment. **(5mks)**

b. Identify **five** qualities of a good classroom. **(5mks)**

c. Discuss **three** basic instructions one should follow when taking medication. **(6mks)**

d. Explain **two** reasons why the hole in a pit latrine should be covered. **(4mks)**

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EXCELLING STUDENTS FORM TWO
END TERM 3 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

ISLAMIC RELIGIOUS EDUCATION (314)

FORM TWO (2)

Time: 2 ½ Hours

Answer All the Questions in the answer sheet provided

1 (a) Discuss the reasons why Quran was revealed in portions. **(6mks)**

(b) Explain the reason why the Quran was not compiled during the time of the prophet P.B.U.H) **(5mks)**

(c) Name the attributes of Allah (SWT) mentioned in ayatul kursy. **(4mks)**

(d) State the teaching of Suratul Fiil. **(5mks)**

2 (a) Explain methods used by the prophet (PBUH) to Ensure that his Hadith and Sunnah was learnt. **(5mks)**

(b) What are the factors that necessitated the collection and compilation of hadith **(5mks)**

(c) Mention the four Scholars of schools of thought/compilers of hadith emerged during the time of Tabiun **(2mks)**

3 (a) List the characteristics of the revealed books **(5mks)**

(b) Explain why the prophet is regarded as the final prophet of Allah (SWT) **(4mks)**

4(a) Explain the three types of Hajj **(6mks)**

(b) When does slaughtering become compulsory for a pilgrim? **(8mks)**

5. State the importance of Amr bil-Ma'arufi wan-nahy Aml-munkar (enjoining the good and forbidding the evil) in prevention of evil. **(6mks)**

6 (a) What is the rationale behind prophet marriages. **(5mks)**

7(a) Enumerate seven importance of the treaty of Hudhaibiyyah. **(7mks)**

8 (a) State the challenges faced by Abu Bakar Assidq as a caliph. **(5mks)**

9 (a) What are the lessons a Muslim leader learns from the speech of Caliph Abu Bakar **(6mks)**

10 (a) List the Achievements of sheikh Al-Amin bin Ali al-Mazrui. **(6mks)**

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EXCELLING STUDENTS FORM TWO
END TERM 3 SERIES ONE EXAMS

JINA: …….

SHULE: ……

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

KISWAHILI (102)

MUHULA WA TATU

KIDATO CHA PILI

MUDA: SAA 2:30

Maagizo:

1. Jibu maswali yote.

2. Majibu yote yaandikwe katika nafasi ulizoachiwa katika karatasi hii ya maswali

3. Majibu yote **lazima** yaandikwe kwa lugha ya Kiswahili

4. Watahiniwa lazima wahakikishe kuwa kurasa zote za karatasi hii zimepigwa chapa sawasawa na kuwa maswali yote yamo.

Matumizi ya mtahini pekee

SEHEMU	UPEO	ALAMA
UFAHAMU	15	
UFUPISHO	15	
MATUMIZI YA LUGHA	40	
ISIMUJAMII	10	
JUMLA	80	

A. UFAHAMU (alama 15)

Soma taarifa ifuatayo kisha ujibu Maswali

Shoka alikuwa barubaru mmoja, fahali wa mtu, kavundumka; mwili na kukacha misuli. Mwili wake haukujali sulubu au kitisho chochote. Uso wake tinginya. Macho yake ni maboni yaliyojitahidi kutoka kwenye vibofu vyake, lakini hayakufuzu. Meno ya juu yameng'oka kwa hivyo mdomo wake wa chini umechomoza mbele na ule wa juu

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umerudi nyuma. Pua yake ni pande la nyama lenye matundu mawili ya ndonya. Nywele zake zimejenga tuta huku na huku na katikati, mlima safi unaoteleza. Nyuzo nyingi zimetengana na macho. Juu ya urembo hapa na pale ilikuwa nyeusi na ya shaba.

Shoka alikuwa ni mwenyeji pale kilabuni pa Biti Sururu. Daima anapotoka kuchuana na magunia huko bandarini hupita kwa Bi. Mpikawali kula kapile. Tena huchungulia kwake kama Selume, mamechanje, amelimudu jiko, na baada ya kujisaidia yeye rnwenyewe na wanawe, amemwekea yeye Shoka chochote. Ndipo hapoi tena pasi na kizuizi, huelemea kwa Biti Sururu kwa kunywa na tafrija nyengine.

Selume, mkewe, amechoshwa na udhia wake. Daima alilalamika kuwa hakuwa na mwanamme. Shoka ni mzuhali kwelikweli. Na ile ambayo Selume aliidhania itakuwa ndoa imara, imekuwa shakawa ya kuchezeana. Naam, Selume amechezewa na mwanamme huyu. Ametwishwa mzigo mzito asioweza kuubeba. Si mchezo kwake kujaza chungu cha kumtosha yeye na watoto wake na huyo Shoka, ambaye haleti chochote kwake lakini hodari wa kungojea kimeshapikwa apandie. Wallahi kama si wanawe, Selume asingelishika jiko, daima lingelala paka. Katu asingalijitia buibui na kutanga na njia. Lo, kachoshwa na shimiri za baruti anazoshindiliwa moyoni mwake.

"Shoka," alilalamika Selume, "wallahi nitakata pingu za uke mimi. Nitatoka nje nitarazaki. Lo! Mke n'sojua nilacho wala nikivaacho. Siku zote Selume na buibui. Imekuwa mimi kiguu na njia, kiguu na njia, hodi, hodi, hodi... Lo, nimechuna uso, napita nikiwaparamia watu weee, hata wameshanitoa maanani. Nipite nikikopa, nipite nikinyang'anya, mwanamke miye, ndio chungu nikizumbue. A-a, hatari. Toka nikikopa mpaka sikopeshwi tena. Nikaomba kiumbe mimi, hata sipewi tena. Ama kweli aliyeachwa nyuma kaachiwa mengi. Shoka mimi ni mwanamke , Vyo, sijatolewa nyongo.

"Sasa nikupe nini," alielemea Shoka. "Wewe uko ndani, mambo ya nje utayajuaje? Nikupe, nikupe, nikupe nini? Unasema maneno tu; maana yake mimi siumwi kukuona wewe mke wangu na watoto wangu mnateseka. Unayeumwa ni wewe tu! Nenda mwana kwenda."

"Kukosa huko kwa kila siku?" Selume alijitetea. "A-a, si kama pesa hupati Shoka, lakini ulevi na . . . eee, pana watoto, Mume wangu, ukiingia chicha, ukitoka chicha. Na hadithi zako nazisikia nje. Dunia duara haina siri, ni uwanda wa jangwa huu, ulifanyalo liko nje".

"Sasa tunatukanana? "Shoka alifinya uso.

"A-a, tanaambizana kweli. Na kweli toka hapo chungu. Mimi ndiye niionaye adabu ya kiburi bwana."

"Utaiona, "bado, maana hujafa. Siku nitakayokutia maganjani, nitakubinginya, ndiyo siku utakayojua adabu ya kiburi."

"Lo, yasini. Sitowahi! Kwema lakini!"

"Babuwe we, dunia wasaa, utaniacha."

"Nani?"

"Wewe.""

"Mimi sikwachi talaka, n'takwacha utimbwc na ulimwengu wako/'

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"Wewe umeshakutimba na mori. "Tazama ulivyo; huna **turuhani**, haya zimekutoka. Hakuna zaibaki za uso. Nyooo! Hujui unachokila, hujui ulalapo wala uamkapo, wewe mbioni, ti, ti, ti, ti, ... Mwisho, mwisho mwisho wa habari, wewe mtu una nyumba na watoto, unakwenda kula mkahawani. Unaupiga wali wakoo uzuri, ukija hapa unajitia njaa ya Majuju wa Majuju. Ee, basi, inajuzu hivyo? Hakuna hata imani. Nyooo, mjalaana wewe kwa hakika, vitendo vyako! Nenda huko vilabuni, nami niache na ulimwengu wangu. Na kama wewe mwanamme kweli, toka usirudi tena kuja kula alichokichuma mkeo. Lo, huna haya wewe, ungalikuwa unazo, usingalikula chakula usichokijua kinakotoka. Lo, yasini!" Selume alikuwa akitetemeka kwa hamaki, ari na majuto. Ghadhabu ndizo zilizompa aseme maneno hayo; na utumwa, unyonge, na manyanyaso ya mwanamme. Mwisho wa maneno yake daima ulikuwa, "tumo taabani wanawake. Huu utumwa kamili. "Lakini hakujua namna gani alikuwa mtumwa. Alijiona anafuata kawaida na kanuni iliyotoka mbali ambayo imekuwa ngumu kugeuka. Haijulikani kama mila, au jambo gani.

Na mwanamke huyu alimpenda mumewe kwa udhati wa moyo wake, na shoka mwenyewe alijua haya. Labda kwa sababu hiyo ndipo -alipozidi inda na inadi. Alipoambiwa hivyo, ndipo alipotafuta pahala akajizika asipite kwake kwa muda wa wiki nzima, mpaka Selume akamtafuta, ampembejee, ndiyo arudi. Na Selume roho yake mtama; mbio atapita akimsaka, na anapomwona humshika miguu arudi nyumbani.

Maswali:

(a) Shoka alifanya kazi ya aina gani? **(Alm1)**

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(b) Kila baada ya kazi, Shoka alikwenda wapi? Kwa nini? **(alm3)**

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(c) Selume alitwishwa mzigo gani na mumewe ambao aliuona kuwa mzito mno? **(Alm2)**

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(d). Mwandishi aliposema kuwa Selume amechoshwa na shimiri za baruti anazoshindiliwa moyoni mwake, ana maana gani? **(Alm1)**

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(e) Kwa nini watu walikuwa wamemtoa Selume maanani? Toa mfano mmoja kudhibitisha **(Alm2)**

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(f). Shoka alijiteteaje Selume alipomshambulia? **(Alm2)**

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(g) Toa mifano miwili kuonyesha kuwa Selume alimpenda mumewe kwa dhati. **(Alm2)**

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(h) Fafanua msamiati ufuatao kama ulivyotumika katika ufahamu **(alm2)**

i) turuhani

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ii) inda na inadi

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B. MUHTASARI (ALAMA 15)

<u>Soma habari ifuatayo kisha ujibu maswali yafuatiayo</u>:

Basi lilipokuwa linalegeza mwendo kwa ajili ya kukaribia kituo chake, umati wa watu uliokuwa ukisubiri kwa amani na utulivu mara ulianza kufumkana. Kila mtu alitimua mbio kutapia nafasi chache zilizokuwamo basini. Ilikuwa mume nguvuze. Heshima, mila na utu vilitoweka kama vumbi linavyopeperushwa na upepo wa tufani. Lengo lilikuwa ni kuingia basini kwa vyovyote.

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Mama mmoja aliyekuwa ameeleka mtoto, alibanwa hata karibu mtoto wake kuzimia. Kelele za mama huyu hazikumshtua mtu. Nyuma yake mzee mmoja aliyejawa na mvi kichwani alitifuliwa pu! chini! kama kidaka. Badala ya kusikitikiwa watu waliangua kicheko wakamcheka kama kinyago. Mabarobaro na vijana waliowahi kupata nafasi ya kwanza ya kujipenyeza kwa kutumia mabavu waliweza kujibarizi katika viti vichache vilivyokuwa vitupu. Hawakujali akina mama waja wazito wala waliobeba watoto migongoni waliokuwa wamesimama huku wamebanwa. Na wazee waliokuwa wamesimama huku mikono yao ikitetemeka pia hawakutiwa maanani na mtu.

Kabla ya watu kutulizana dereva aliliondosha gari kwa nguvu na mfululizo wa mabuyu makali. Basi lilikuwa halijapata hatua, wakati kelele za abiria na wapita njia ziliposikika zikimkemea dereva, 'we! unaua dereva! simamisha gari! simamisha gari!' Ilichukua muda kidogo hata gari liliposimama. Akili yote ya dereva ilikuwa ni kulitimua basi ili aokotee abiria walio njiani na kuwashindilia garini; Shabaha kubwa ilikuwa ni pesa si huduma kwa watu.

Hatimaye basi liliposimama jamaa wawili makamu walikuwa wamekwisha hasirika. Mmoja wao alianguka na kukanyagwa na gari iliyokuwa nyuma yake. Miguu yake yote miwili ilivunjwa kenyekenye. Wa pili aliyekuwa akilewalewa alianguka pia lakini hakuumia sana. Milolongo ya magari iliyokuwa nyuma ya basi ilikwama, kungojea polisi waje wachunguze ajali iliyofanyika. Badala ya madereva wa magari yaliyokwama kusikitishwa na ajali iliyotukia, walianza kufyoa; kila mmoja alikuwa ameghadhibika kwa 'kucheleweshwa bure'. Hakuna aliyejali kuwa yule mtu atakufa au atapona. Hakuna aliyemlaumu dereva kwa taadi zake wala mshika pesa kwa kushindilia watu basini bila kujali. Hapana shaka hapa pana hatari kubwa ya kuweka pesa na ubinafsi mbele ya ubinadamu.

(a) Fupisha aya ya pili kwa maneno 40-45 **(Alm7)**

Matayarisho

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Jibu

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(b) Kwa maneno 55, eleza yaliyotokea basi liliposimama **(Alm8)**

Matayarisho

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Jibu

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C. MATUMIZI YA LUGHA (ALAMA 40)

a.Andika neno lenye sauti zifuatazo: irabu ya chini, nazali ya midomoni na irabu ya nyuma juu **(alm1)**

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b. Eleza maana ya shadda. **(alm1)**

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c. Onyesha mofimu katika neno **(alm2)**

Ametusahau

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d. Andika sentensi ifuatayo katika hali ya kutendewa **(alm1)**

Ng'ombe wa mkulima amekufa asubuhi

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e. Yakinisha sentensi ifuatayo katika wakati ujao hali timilifu wingi **(alm2)**

Shule haitafungwa siku hiyo

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f. Tambua virai vilivyopigiwa mstari **(alm2)**

<u>Wake mzuri</u> alipatikana <u>na wasamaria wema barabarani.</u>

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g. Tunga sentensi ukitumia -ji kuonyesha mazoea **(alm2)**

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h. Tunga sentensi moja ukitumia kivumishi kisisitizi cha karibu katika ngeli ya LI – YA. **(alm2)**

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i. Kanusha sentensi hii katika wingi **(alm1)**

Kwangu ndiko kwake

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j. Andika kinyume cha sentensi ifuatayo **(alm1)**

Kakangu aliinuka na akaketi nje ya nyumba.

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k. Fedha ni kwa pesa na wajihi ni kwa **……** nao ukuta ni kwa **……** **(alm2)**

l. Kwa kutoa mfano, andika dhima zozote mbili za kielezi **(alm2)**

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m. Geuza maneno yaliyopigiwa mstari yawe katika hali uliyopewa mabanoni. **(alm2)**

Alinipa <u>zawadi</u> usiku huo (kitenzi)

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Churchil anapenda <u>kucheka</u> (nomino)

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n. Tumia kitenzi chenye asili ya kigeni kutungia sentensi katika kauli ya kutendewa. **(alm2)**

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o.Eleza aina za maneno yaliyopigiwa mstari katika sentensi hii. **(alm2)**

<u>Kucheka</u> kwake <u>kunaudhi</u>.

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p. Eleza tofauti kati ya kiarifu na kiima **(alm2)**

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q. Akifisha kifungu hiki kwa kutumia mabano na viakifishi vingine. **(alm3)**

Wanyama hawa ndovu tembo na ngawa wanyama wa pori wote hupatikana katika mbuga ya nairobi

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r. Andika dhima moja ya kiingizi kisha ukitungie sentensi . **(alm2)**

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s. Andika sentensi ifuatayo katika usemi halisi **(alm2)**

Mwalimu alitaka kujua utambulisho wake.

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t. Andika aina mbili za sentensi kwa kuzingatia majukumu **(alm2)**

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u. Changanua sentensi hii kwa mtindo wa vishale **(alm3)**

Alimsomea

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v.Eleza maana ya methali, mchuma janga hula na wa kwao. **(alm1)**

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D. ISUMU JAMII (ALAMA 10)

Huyu pwana amenona na mchinga ile akuna, kama wewe nashitwanga kapisa kufumpua tadizo yake na hivo hata sisi natadizikaa pia.

a.Toa mifano mitatu kuonyesha kuwa msemaji hadhibiti lugha katika usanifu wake? **(alm3)**

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b. Tambua **aina** nne za dosari za lugha kama zilivyojitokeza katika kifungu hiki. **(alm4)**

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c.Eleza sababu tatu zinazosababisha hali kama hizi kutokea katika matumizi ya lugha **(alm3)**

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EXCELLING STUDENTS FORM TWO
END TERM 3 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

MATHEMATICS (121)

FORM TWO (2)

Time: 2 ½ Hours

INSTRUCTIONS TO CANDIDATES

1.Write your name and admission number in the spaces provided at the top of this page.

2.Sign and write your admission number and the date of the examination

3.This paper consists of two sections: Section I and Section II.

4.Answer **ALL** questions in section 1 and section II

5.Show all the steps in your calculations, giving your answers at each stage in the spaces below each question.

6.Marks may be given for correct working even if the answers are wrong.

7.Non – Programmable silent electronic calculators and KNEC mathematical tables may be used, except where stated otherwise.

FOR EXAMINERS USE ONLY

Section I

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

Section II

17	18	19	20	21	TOTAL

GRAND TOTAL

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SECTION 1 (50 MARKS)

Answer all the questions in this section:

1.Evaluate $\dfrac{3\frac{9}{17} \div 5\frac{1}{5}}{37\frac{1}{3} \div 3\frac{1}{4}}$ **(3Mks)**

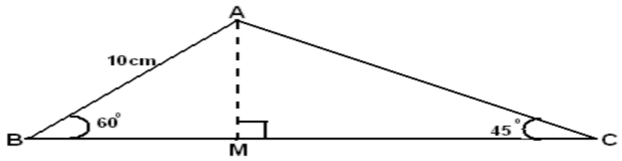
2.Use squares, square roots and reciprocal tables only to **evaluate** **(3Mks)**

$$\frac{2}{\sqrt{34.46}} - \frac{5}{8.67^2}$$

3.Factorize completely the expression $75x^2 - 27y^2$ **(2mks)**

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4. In the figure below, ∠ ABC =60^0, ∠ACB = 45^0. **Calculate** the length BC and hence **calculate** the area of triangle ABC. **(3mks)**



5. Solve for *x* and *y* in the following equations. **(4mks)**

$$2^{3x+y} \times 3^{4x-y} = 648$$

6.A wholesaler sold a dress to a retailer at a profit of 50%. The retailer sold the dress at a profit of 25% of her cost price to a consumer for sh. 120. How much did the wholesaler pay for the dress? **(3mks)**

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7. Use logarithm tables to evaluate. $\sqrt[3]{\dfrac{61.69\times 0.01497}{0.257^2}}$ **(4Mks)**

8. If 1 cm^3 of copper metal has a mass of 8.88g, calculate the mass of a quarter sphere of copper whose radius is 24 cm. **(2Mks)**

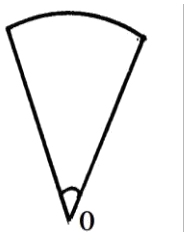
9. Find the integral values of x in. $4-2x\geq 2x+1\geq x-4$ **(3Mks)**

10. Given that **a** = $\begin{pmatrix}4\\-3\end{pmatrix}$ and **b** = $\begin{pmatrix}14\\1\end{pmatrix}$**,** find $|2a-3b|$. **(4Mks)**

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11. Determine the value of y if $\cos (3y - 10)^0 = \sin (4y + 30)^0$. **(2Mks)**

12. The figure below shows part of a diagram of rotation symmetry order 3 about a point O. Complete the diagram. **(3mks)**



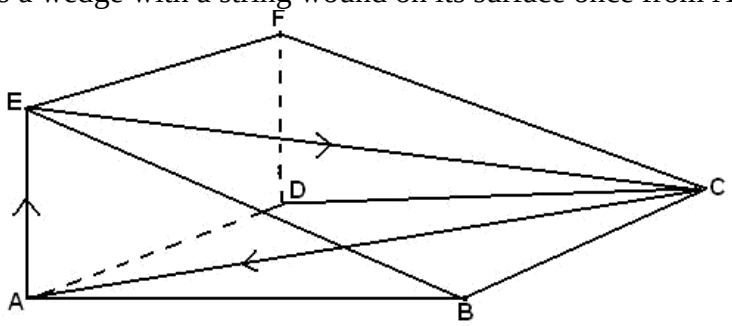
13. A line y=mx +8 makes an angle of 75.97^0 with the x-axis, find the co-ordinates of the point where the line cuts the x-axis. **(4mks)**

14. From a point T 20m away on a level ground the angle of elevation of the lower part of a window is 27^0 and that of the upper part from the same point T is 32^0 .Calculate the height of the window. **(3mks)**

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15. Sixteen men working at the rate of 9hrs a day can complete a piece of work in 14 days. How many more men working at the rate of 7 hours a day would complete the same job in 12 days **(3mks)**

16. The figure below shows a wedge with a string wound on its surface once from A to E to C to A.



Sketch the net of the solid and show the path of the string **(3mks)**

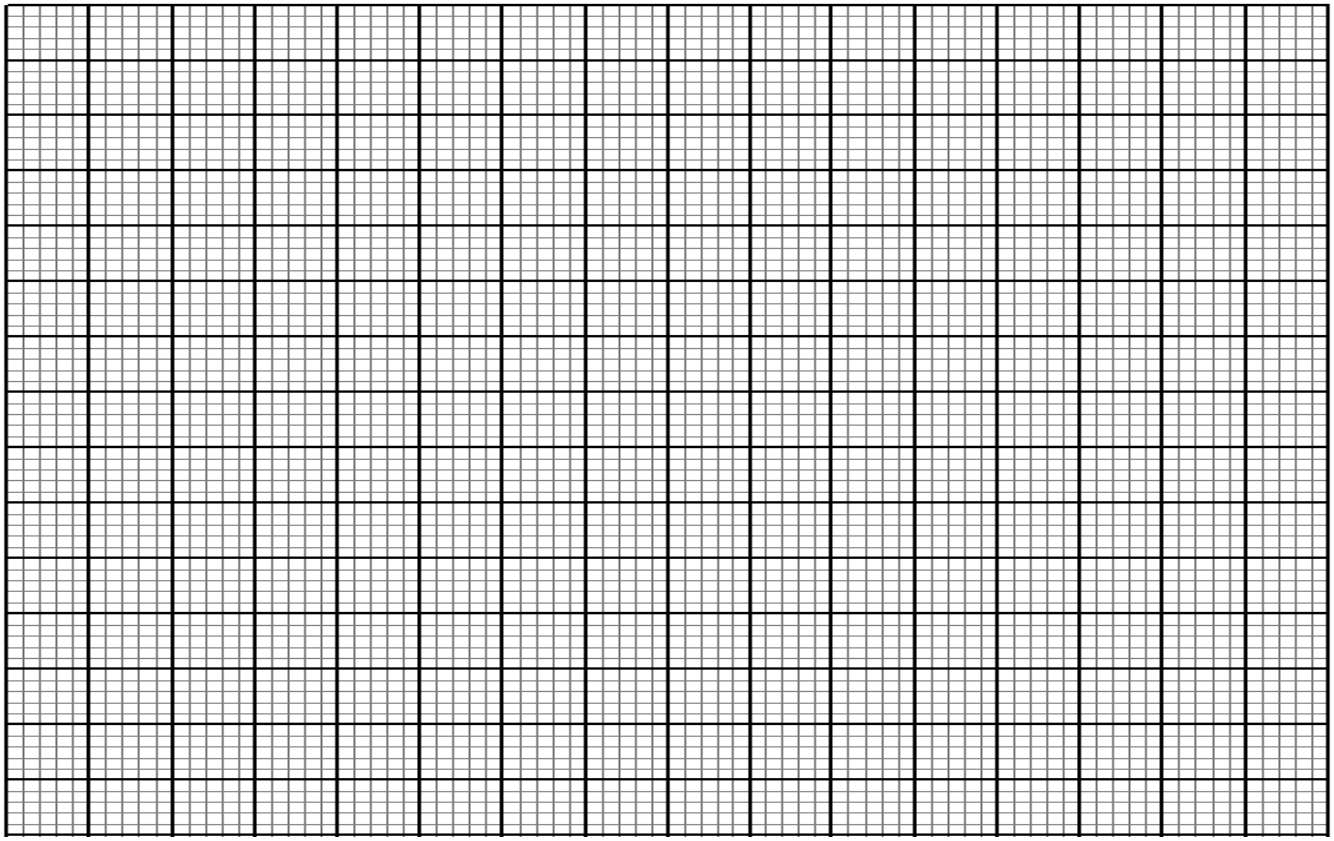
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SECTION II (50 Marks)

17. The following data shows the sample of age distribution of the people who reside in a certain village in years in Nandi county

Age group	1-5	6-10	11-20	21-30	31-50	51-55	56-65
Frequency	4	8	8	6	40	3	3

(a) Draw a histogram to represent this information **(4mks)**

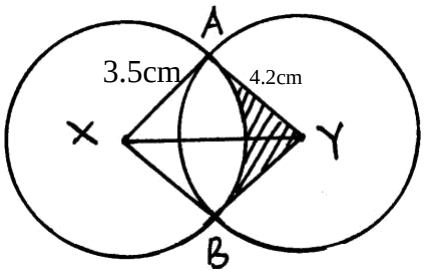


(b) Find the mean of the age group. **(4mks)**

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(c) Using the histogram estimate the median using the histogram**.** **(2mks)**

18. Two circles of radii 3.5cm and 4.2cm with centres X and Y respectively intersect at point A and B as shown below.



Given that the centres of the circles are 6cm apart, find

a) angle AXB **(4mks)**

b) Angle AYB **(2mks)**

c) The area of the quadrilateral XAYB correct to 2d.p. **(2mks)**

d) The shaded area correct to 2 significant figures. (Take л = 22/7) **(2mks)**

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19. A bus left Nairobi at 7.00am and travelled towards Eldoret at an average speed of 80km/hr. At 7.45am a car left Eldoret towards Nairobi at an average speed of 120km/hr. The distance between Nairobi and Eldoret is 300km. Calculate

a) The time the bus arrived at Eldoret **(2mks)**

b) The time of the day the two met. **(4mks)**

c) The distance from Nairobi where the two met. **(2mks)**

d) The distance of the bus from Eldoret when the car arrived in Nairobi. **(2mks)**

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20. A straight line L1 has a gradient -½ and passes through point P (-1, 3). Another line L2 passes through the points Q (1, -3) and R (4, 5). Find.

(a) The equation of L1. **(2mks)**

(b) The gradient of L2. **(1mk)**

(c) The equation of L2. **(2mks)**

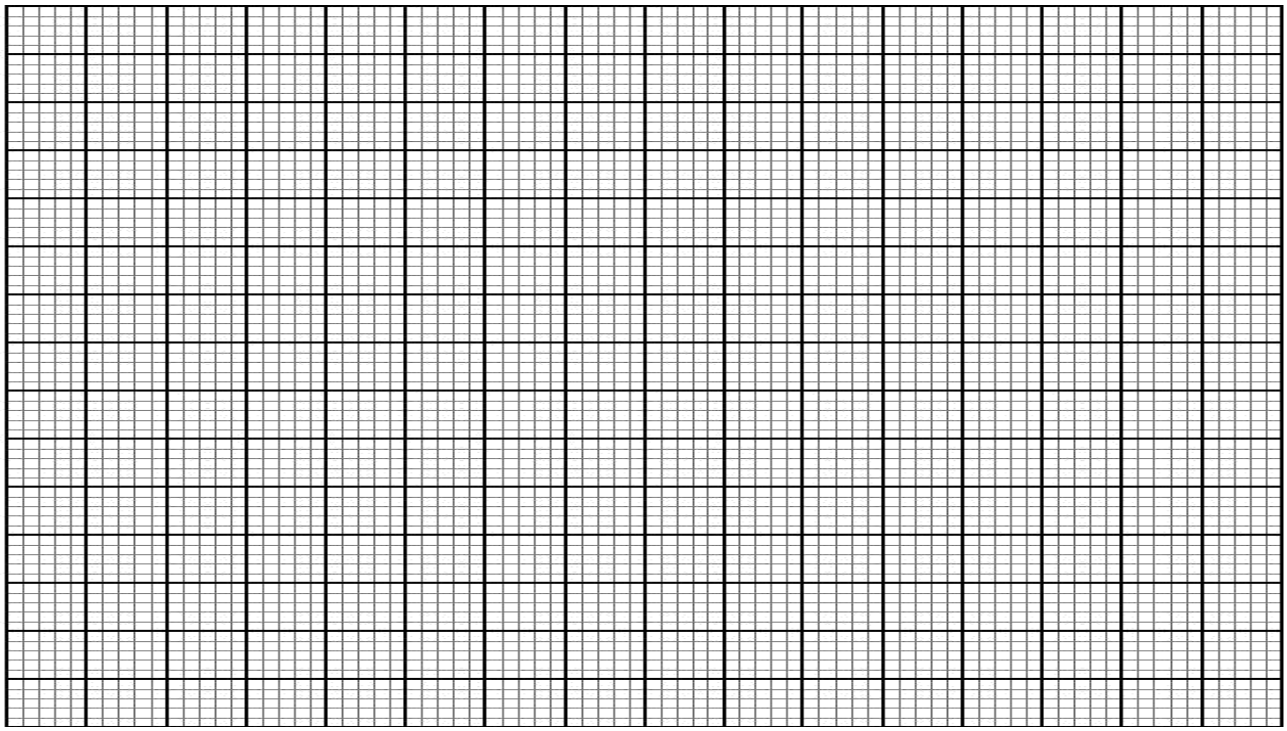
(d) The equation of a line passing through a point S (0, 5) and is perpendicular toL2. **(3mks)**

(e) The equation of a line through R parallel to L1. **(2mks)**

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21. A triangle with A (-4, 2), B (-6, 6) and C (-6, 2) is enlarged by a scale factor -1 and centre (-2, 6) to produce triangle $A^1B^1C^1$. (4 marks)

a) Draw triangle ABC and $A^1B^1C^1$.and state its coordinates



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b) Triangle $A^1B^1C^1$ is then reflected in the line y = x+ 2 to give triangle $A^{11}B^{11}C^{11}$ draw $A^{11}B^{11}C^{11}$ and state its coordinates. **(3mks)**

c) If triangle $A^{11}B^{11}C^{11}$ is mapped onto $A^{111}B^{111}C^{111}$ whose co-ordinates are A^{111}(-2, 0), B^{111}(2, -2) and C^{111}(-2, -2) by a rotation. Find the centre and angle of rotation. **(3mks)**

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EXCELLING STUDENTS FORM TWO
END TERM 3 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

PHYSICS (232)

FORM TWO (2)

Time: 2 *Hours*

Instructions to candidates

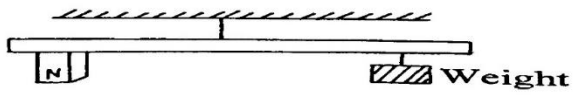
- This paper consists of two sections A and B.
- Answer all the questions in the two sections in the spaces provided after each question
- All working must be clearly shown.
- Electronic calculators, mathematical tables may be used.
- All numerical answers should be expressed in the decimal notations.

SECTION	QUESTION	MAX MARKS	CANDIDATE'S SCO
A	1 – 11	25	
B	12	12	
	13	14	
	14	09	
	15	10	
	16	10	
TOTAL		80	

SECTION A (25 MARKS)

ANSWER ALL THE QUESTIONS IN THE SPACES PROVIDED

1. A meter rule is suspended by a thread such that it is in equilibrium balanced by a permanent magnet attached to the meter rule and some weight as shown in figure 1 below.



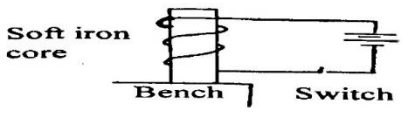


Figure 1

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If the soft iron is fixed to the bench, state and explain the effect on the meter rule when the switch is closed. **(2mks)**

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2. A part from images being formed behind the mirror, state any other two similarities of images formed by a plane mirror and a convex mirror. **(2mks)**

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3.The frequency of the sound emitted by the loudspeaker is 1020Hz. Calculate the wavelength of the sound wave in air where its velocity is 340m/s **(3mks)**

4.A gun is fired and an echo heard at the same place 0.6s later. How far is the barrier, which reflected the sound from the gun? (Speed of sound in air=330ms^{-1} **(3mks)**

5.Explain how the wing below increases the dynamic lift of an airplane. **(3mks)**



Figure 2

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6.Figure 3 shows a mass of 12g suspended on a set of 6 identical springs. When the mass was hanged on spring A, it extended by 6cm.

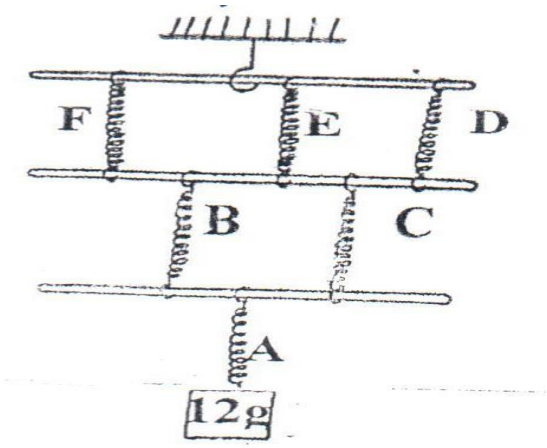


Figure 3

Determine the extension of the combination shown if each spring and rod has negligible weight **(2mks)**

7.A uniform bar one meter long is balanced at the 30 cm mark when a load of 3.2 N is hung at the zero mark as shown in the figure 4.

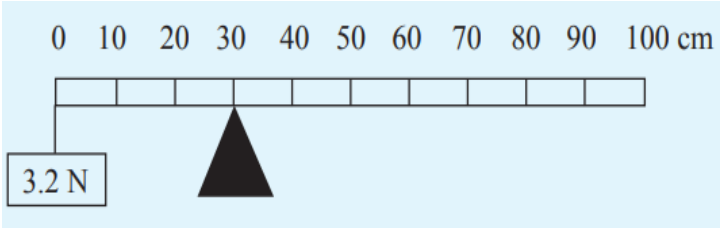


Figure 4

Show the position through which the weight of the bar acts and calculate the weight of the bar **(3mks)**

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8.The figure 5 shows a micrometer screw gauge used to measure the diameter of a rod in millimeters. Name the parts labelled P, Q, R**.** **(3mks)**

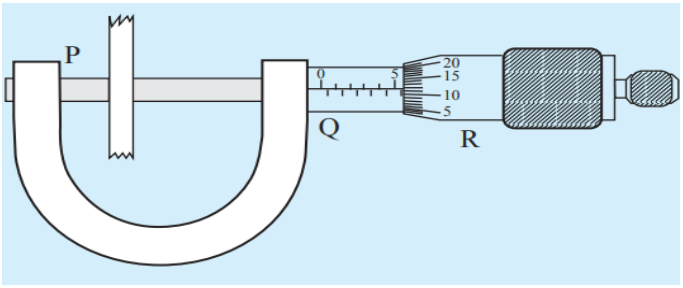


Figure 5

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9.The figure 6 below shows a Bunsen burner in three different positions.

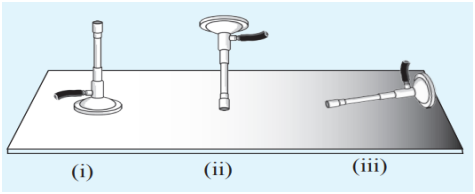


Figure 6

Identify the states of equilibrium in (i) and (ii**).** **(2mks)**

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10. State Fleming's left hand rule**.** **(1mk)**

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11. State how the speed of sound in air is affected by increase in humidity **(1mk)**

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SECTION B(55MARKS)

ANSWER ALL THE QUESTIONS IN THIS SECTION IN THE SPACES PROVIDED

12. a) State one reason why diffusion in gases is faster than diffusion in liquids. **(1mk)**

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b) In an experiment to estimate the diameter of an oil molecule, an oil drop of radius 2.5×10^{-4}m spreads over a circular patch whose diameter is 20cm.Determine:

i.The volume of the oil drop **(3mks)**

ii. The area of the patch covered by the oil. **(3mks)**

iii. The thickness of the oil molecule. **(3mks)**

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iv. State one assumption made in (b) (iii) above. **(1mk)**

13. The figure 7 below shows a wave profile.

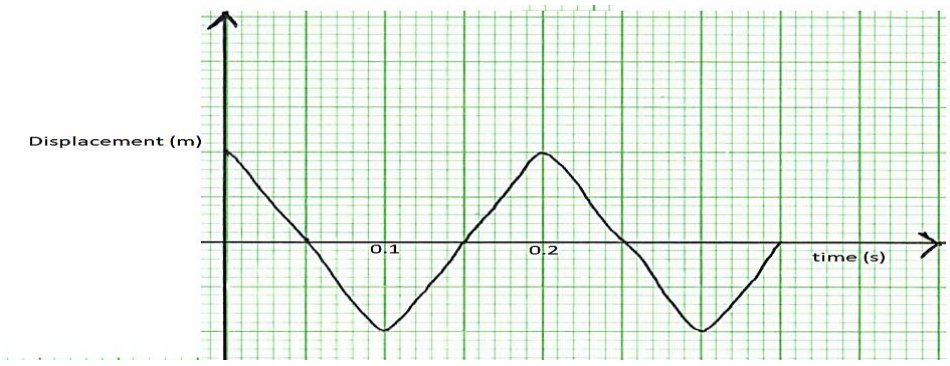


Figure 7

i) Explain what is meant by amplitude in this context. **(1mk)**

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ii) From the figure determine

I) The period **(1mk)**

II) The frequency **(2mks)**

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iii) Calculate the wavelength of the sound wave in the figure. Take the velocity of sound in the gas to be 340m/s **(3mks)**

iv) State two factors that can increase the speed of sound in solids **(2mks)**

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v) A student stands some distance from a high wall and claps his hands

I. What two measurements would need to be made in order to determine the speed of sound? **(2mks)**

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II. Describe how you would make use of these measurements **(3mks)**

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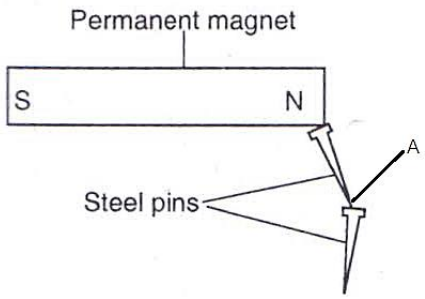
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14. The fig below shows the magnetization method

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(i) State the method of magnetization shown above **(1mk)**

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(ii) State the polarity of point A in the pin attached to the magnet **(1mk)**

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(iii) The figure 8 below shows an electromagnetic relay.

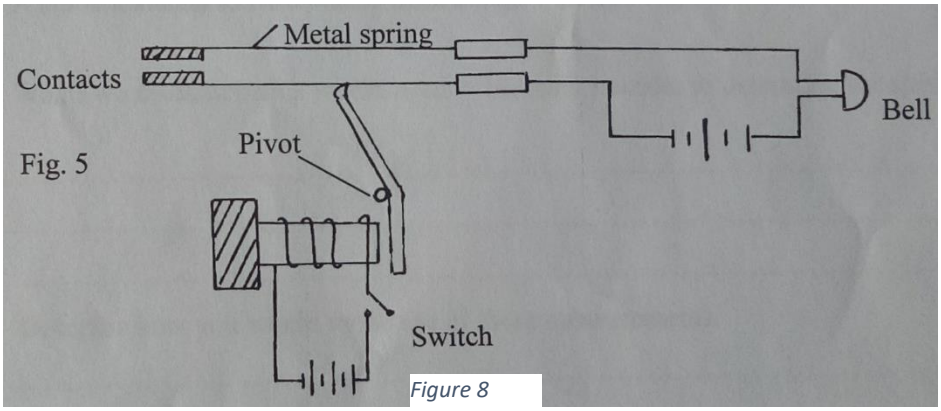


Fig. 5

Figure 8

Explain what happens when the switch is closed. **(2mks)**

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iii) A bar magnet can be used as compass. Describe how you would achieve this. **(3mks)**

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iv) The figure 9 below shows a straight conductor AB carrying current in a magnetic field.

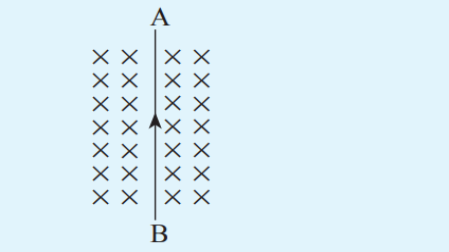


Figure 9

State any two ways in which the force can be:

• increased **(1mk)**

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• made to change direction **(1mk)**

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15 a) Define the following terms as applied to curved mirrors:

(I) Pole **(1mk)**

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(II) Centre of curvature **(1mk)**

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(III) Principal focus of a convex mirror **(1mk)**

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b) By ray diagram construction, locate and describe the image fully when the object is between P and F of a concave mirror **(3mks)**

c) The figure 10 shows air flowing through a pipe of non-uniform cross sectional area. Two tubes A and B are dipped into the liquid as shown.

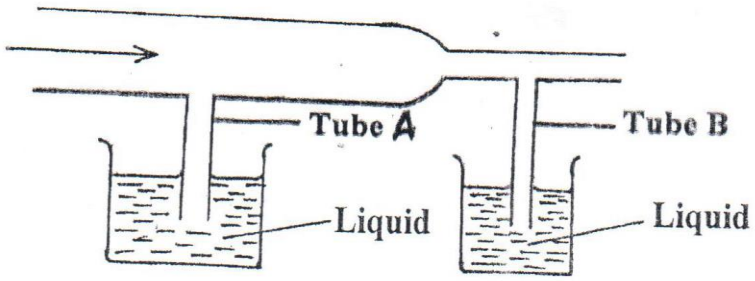


Figure 10

(I) Indicate the level of the liquid in tubes A and B **(1mk)**

(II) Explain your answer in part (a) above **(1mk)**

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d. Figure 11 below shows two pieces of cork fixed on a polished and a dull surface with wax.

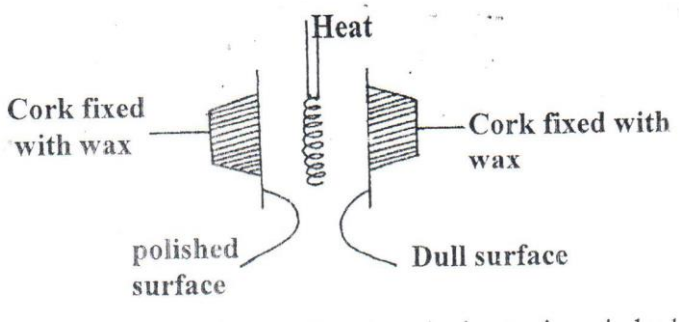


Figure 11

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State and explain the observation made, when the heater is switched on for a short time given that the heater is equidistant from the two surfaces. **(2mks)**

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16 a) State Bernoulli's principle**.** **(1mk)**

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b) The On the space below, sketch a graph to show how the mass per unit volume of water varies between $0°C \ and \ 10°$ **(2mks)**

c) Air pressure at the base of a mountain is 70cmHg while at the top of the mountain is 50cmHg. Given that the average density of air is 130kg/m^3 and the density of mercury is 13600kg/m^3. Determine the height of the mountain. **(3mks)**

d) The diagram below shows a Bunsen burner.

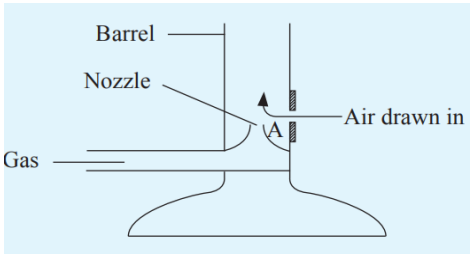


Figure 12

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Explain the working of the burner as an application to Bernoulli's principle. **(2mks)**

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e) Identify 2 modifications that are introduced to the buses to ensure stability? **(2mks)**

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