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FORM 2 END TERM 2 SERIES TWO EXAMS

Prefer Calling Sir Obiero Amos @ 0706 851 439 for Marking Schemes

Subjects Tested: 1.AGRIC 2.BIO 3.BST 4.CHEM 5.CRE 6.ENG 7.GEOG 8.HIST 9.KISW 10.MATHS & 11.PHY Respectively.

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0706 851 439



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FORM 2 END TERM 2 SERIES 2 EXAMS

Name: ……

School: ……

Index no: …… Candidate's signature: …… Date: ……

AGRICULTURE EXAM
END OF TERM 2
FORM TWO
TIME:

Answer ALL Questions.

1. State four systems of farming. (2mks)

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2. State two effects of HIV/AIDS on agricultural production. (2mks)

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3. List four physical agents of weathering. (2mks)

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4. List four factors influencing soil formation. (2mks)

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5. Name two types of water pumps. (2mks)

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6. Mention two tertiary operations carried out during land preparation. (1mk)

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7. Outline four characteristics of a fertile soil. (2mks)

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8. Give two characteristics of plant used for preparing green manure. (2mks)

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9. Differentiate between a root stock and a scion as used in grafting. (2mks)

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10. Name two forms in which nitrogen is absorbed by plants. (2mks)

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11. State two deficiency symptoms of Nitrogen. (2mks)

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12. List four examples of phosphatic fertilizers. (2mks)

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13. A farmer was asked to apply fertilizers as follow: 200 kg/ha of DSP (40% P_2O_5), 150kg/ha of sulphate of ammonia 20% Nitrogen and 150kg/ha of Muriate of Potash 60% K_2O)

a) How much P_2O_5 did the farmer apply per ha. (2mks)

b) How much K_2O did the farmer apply per ha. (2mks)

c) How much nitrogen did the farmer apply per/ha. (2mks)

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14. State two methods of pH testing. (2mks)

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15. Outline four disadvantages of mulching in crop production. (2mks)

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16. List 3 factors that determine the time of harvesting farm produce. (3mks)

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17. State four post harvesting practices. (2mks)

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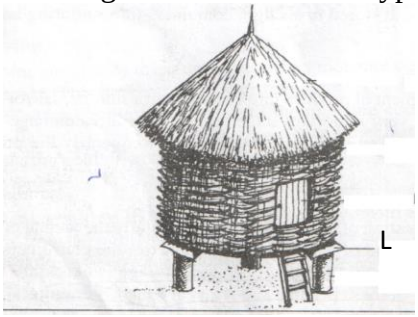
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18. The diagram below shows a type of storage facility. Use it to answer question that follow.



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a) Name the structure. (1mk)

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b) Name part L and state its function. (2mks)

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c) Name the roofing material the structure is made of: (1mk)

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d) List three limitations of the above structure. (3mks)

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e) Give two preparations that the farmer should make on the above structure before the crop produce is brought in. (2mks)

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19. Give four categories of vegetables. (2mks)

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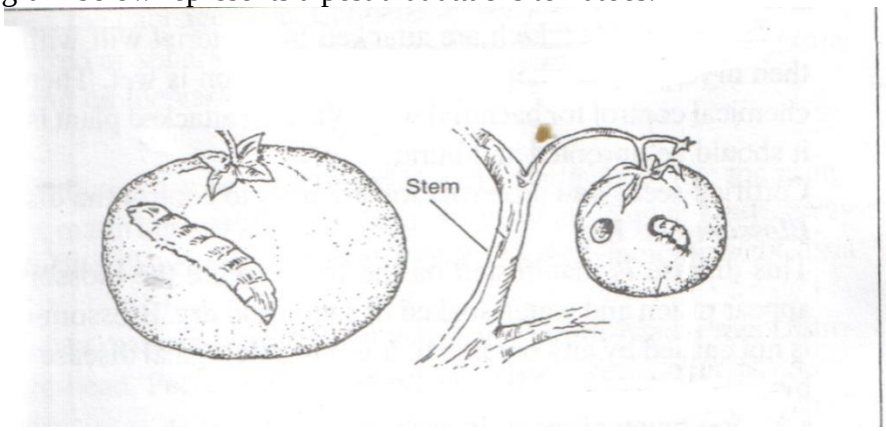
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20. The diagram below represents a pest that attacks tomatoes.



i) Identify the pest. (1mk)

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ii) State two control measures of the above pest. (2mks)

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21. (a) Differentiate between health and disease as used in livestock health. (2mks)

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(b) State four factors that predispose livestock to diseases. (4mks)

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(c) Outline 3 routine management practices of disease control. (3mks)

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(d) State three activities in livestock health that necessitate handling of animals. (3mks)

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22. (a) List two harmful effects of tsetsefly infestation to livestock. (2mks)

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(b) Name:

i) Intermediate host for tapeworm. (1mk)

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ii) Intermediate host for liverfluke. (1mk)

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(c) Give two examples of one host tick. (2mks)

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END OF TERM 2 EXAMS

BIOLOGY

FORM 2

1. (i) What is respiration? (1mk)

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(ii) State any **two** importance of respiration. (2mks)

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2. (a) (i) Name the blood vessel that supplies the cardiac muscles with its requirements.(1mk)

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(ii) State the corgenical defect of the above blood vessel resulting from prolonged large intake of cholesterol in the blood. (1mk)

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(b) What is the importance of the thicker muscular wall of the left ventricle of a mammalian heart? (2mks)

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(a) (i) Name the respiratory surface in insects. (1mk)

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(ii)State any **one** feature that adapts the structured named in a (i) above to its functions. (1mk)

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(b) Why are the fish gills highly vascularized? (1mk)

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3. a) (i) what would happen if a person secreted less A.D.H? (1mk)

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(ii) Name the condition described in a(i) above. (1mk)

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(b)What is the role of the loop of Henle in homeostasis? (1mk)

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4. (a) Name the products of anaerobic respiration in plants. (1mk)

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(b)Give any **two** economic importance of the products named in (a) above. (2mks)

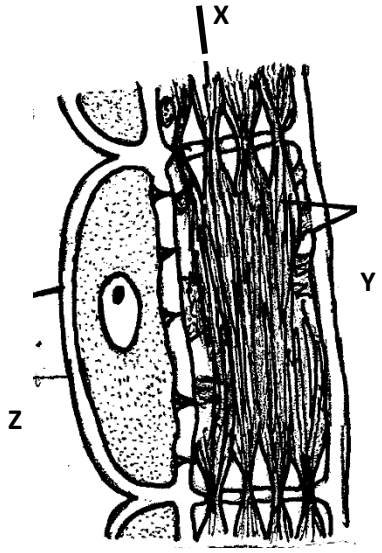
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5. The diagram below illustrates part of phloem tissue.



(a) Name the parts labeled. (2mks)

X……

Y……

(b)State the function of the part labeled **Z** (1mk)

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6. Name the monosaccharides that make up the disaccharides below

(a) Sucrose (1mk)

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(b) Lactose (1mk)

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(c) Maltose (1mk)

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7. State **one** use of the following excretory products of plants (2mks)

(i) Latex

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(ii) Colchicine

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8. (a) Define respiratory quotient (1mk)

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(b) Given the equation below, calculate the respiratory quotient (RQ) (2mks)

$C_6H_{12}O_6+6O_2 \longrightarrow 6H_2O+6CO_2+2880kJ$

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9. State the importance of the following

(i) Reversed stomatal rhythm to desert plants (1mk)

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(ii) Closing of stomata on a hot dry sunny day (1mk)

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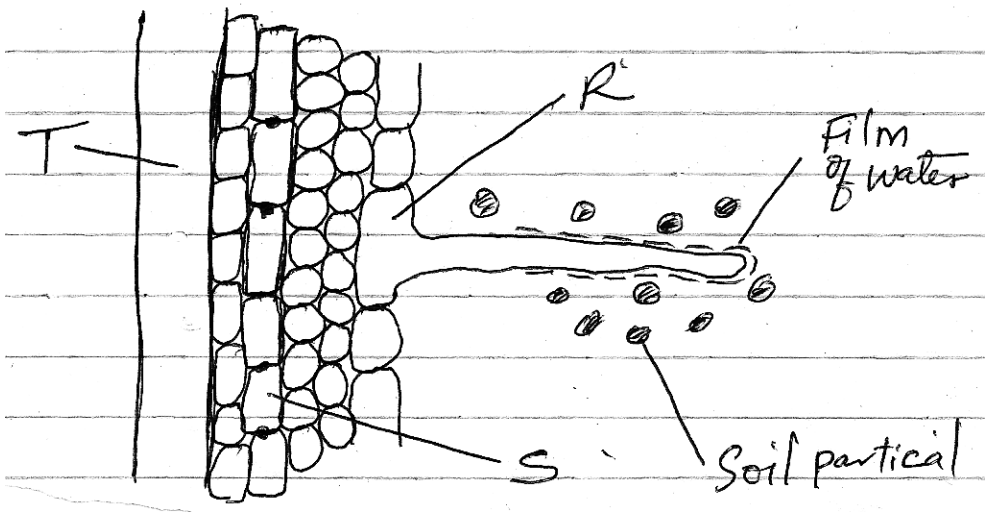
(iii) How does wind affect transpiration rate? (1mk)

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10. The diagram below represents the pathway of water from soil into the plant.



i. Name the structures labeled T and S.

T:…… (1mk)

S:…… (1mk)

ii. State **<u>two</u>** ways in which the structure labeled R is adapted to its functions.(2mks)

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11. A student added equal amounts of blood to equal volumes of salt of different concentrations. She observed and counted the red blood cells at the beginning of the experiment and at end of the experiment. The results were as shown:-

Set up	**Concentration of salt**	**Beginning**	**After 30 mins**
A	0.1mol	500	500
B	0.01mol	500	250

Account for the results in:

(a) Set up A (2mks)

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(b) Set up B (2mks)

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12. Below is a dental formula of certain organisms. Use it to answer the questions that follow.

I $^{0}/_{3}$, C $^{0}/_{1}$, PM $^{3}/_{2}$, M $^{3}/_{3}$

(i) Calculate the total number of teeth in the mouth of the organisms. (2mks)

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(ii) Name the organisms. (1mk)

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(iii) Identify the mode of nutrition of the organisms. (1mk)

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13. (a) Give a reason why glucose does not normally appear in urine even though it is filtered in mammalian Bowman's capsule. (2mks)

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(b) Which hormones are involved in the salt-water balance in human body? (2mks)

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14. a) State **two** functions of the blood other than transport. (2mks)

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(b) Name **one** defect of the circulatory system in humans. (1mk)

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15. (a) State **two** ways in which human body is naturally protected against harmful bacteria. (2mks)

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(b) State **one** way in which the composition of blood in the pulmonary artery and that of pulmonary vein differ. (1mk)

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16. Describe the path taken by Carbon (IV) Oxide released from the tissues of a cockroach into the atmosphere. (2mks)

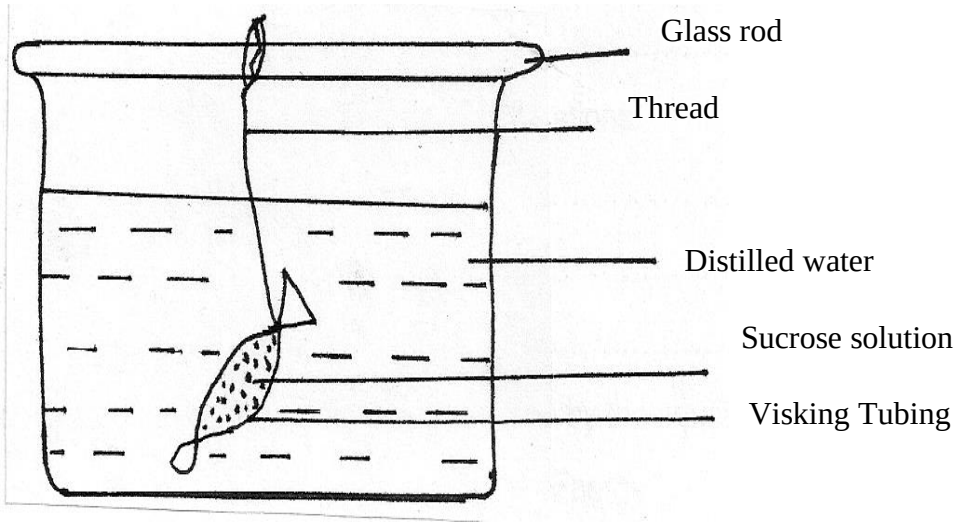
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17. Form One student set up an experiment shown below to investigate a certain physiological process. The set up was left for 30 minutes.



(a) Name the process under study. (1mk)

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(b) State the expected results after 30 minutes. (1mk)

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(c) Explain your answer in (b) above. (3mks)

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18. Explain why it is important to stain specimen to be observed under a light microscope. (2mks)

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19. What is wilting? (2mks)

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20. State the significance of the following steps while testing for disaccharides in food sample.(2mks)

(a) Addition of dilute hydrochloric acid

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(b) Addition of sodium bicarbonate.

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21. a) (i) Name the fluid produced by sebaceous gland. (1mk)

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(ii) State **two** function of the fluid named in 5 a) (i) above. (2mks)

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b) Explain malpighian layer of the skin is adapted to perform its function. (1mk)

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22. Outline **three** functions of colon. (3mks)

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23. Explain four reasons why the study of biology is important (4mks)

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24. Define the term physiology (1mk)

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FORM 2 END TERM 2 SERIES 2 EXAMS

Name: ……

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END TERM 2
BUSINESS STUDIES
FORM 2
TIME: 1 ½ HOURS

Instructions.

Answer all the questions in the spaces provided.

1.State **Four** reasons why it is difficult to satisfy human wants. (4mks)

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2.State any **Five** clauses contained in the memorandum of association. (5mks)

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3.State the nature of the following production activities (4mks)

Activity	Nature
(a)Flour milling	
(b)Bread baking	
(c)Cloth making	
(d)Cotton ginning	

4.State **Four** situations that indicate existence of a business opportunity. (4mks)

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5.Highlight any **Four** roles that are played by ethics in businesses. (4mks)

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6.Identify **Four** roles that equipments play in an office. (4mks)

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7.Outline **Four** circumstances under which a partnership may be dissolved. (4mks)

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8.State **Three** ways in which government may regulate business activities. (3mks)

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9.Outline the sources of capital for co-operatives. (4mks)

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10.Highlight **Five** factors to be considered when selecting office equipment. (5mks)

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11.Highlight the contents of articles of association. (4mks)

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12.Give **Four** essential elements of transport. (4mks)

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13.Highlight **Five** importance of transport to business. (5mks)

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14.Highlight **Four** reasons for studying business studies in Kenya. (4mks)

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15.Name **Four** accounting documents that are used in home trade.

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16. Identify **Four** elements of effective communications. (4mks)

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17.Identify **Four** common means of verbal communication. (4mks)

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FORM 2 END TERM 2 SERIES 2 EXAMS

Name: ……

School: ……

Index no: …… Candidate's signature: …… Date: ……

CHEMISTRY
FORM 2
END OF TERM 2 EXAM
TIME: 2 HOURS

INSTRUCTIONS TO STUDENTS

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

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

1. Define the following terms:

(i) Atomic Number (1mk)

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(ii) Mass Number (1mk)

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(iii) The Isotopes (1mk)

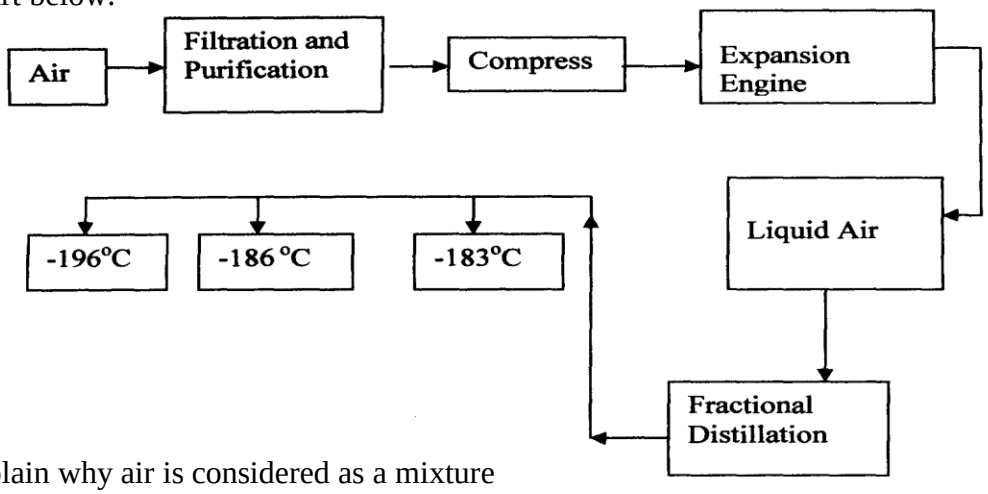
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2. Oxygen is obtained on large scale by the fractional distillation of air as shown on the flow chart below.



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

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

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

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

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

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

Identify with reasons the substances that:

(i) Have a metallic structure (2mks)

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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. (2mk)

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6 . Define the following terms:

I. A saturated solution. (1mk)

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II. Crystallization. (1mk)

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

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

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

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

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

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

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

(i) Sodium sulphate ……

(ii) Magnesium hydroxide ……

(iii)Calcium nitrate. ……

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

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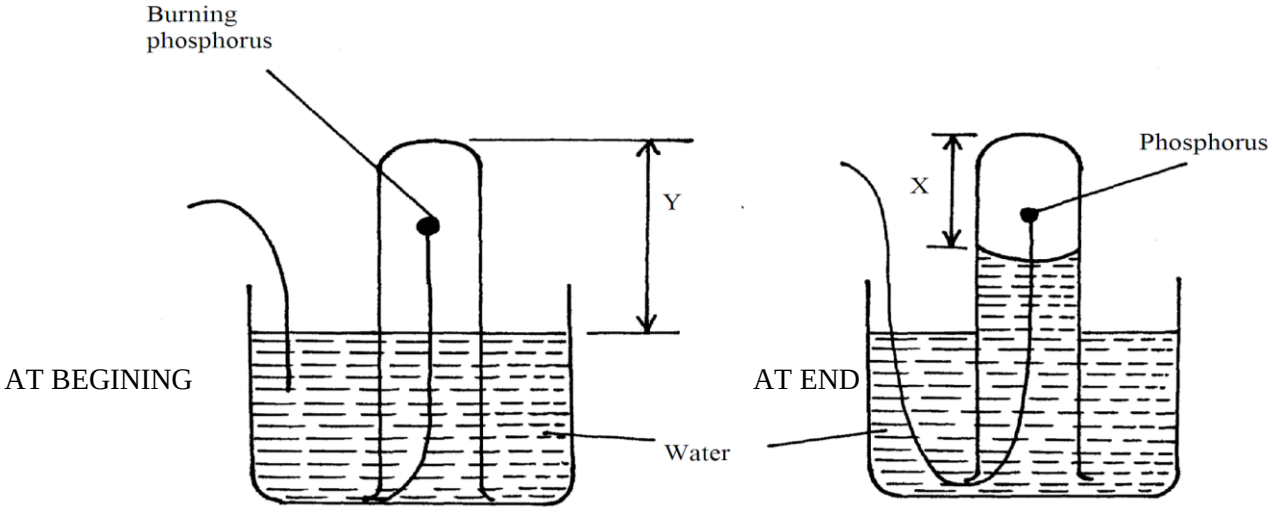
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11. A student set-up the apparatus below in order to determine the percentage by volume of oxygen in air.



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

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

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

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

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

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

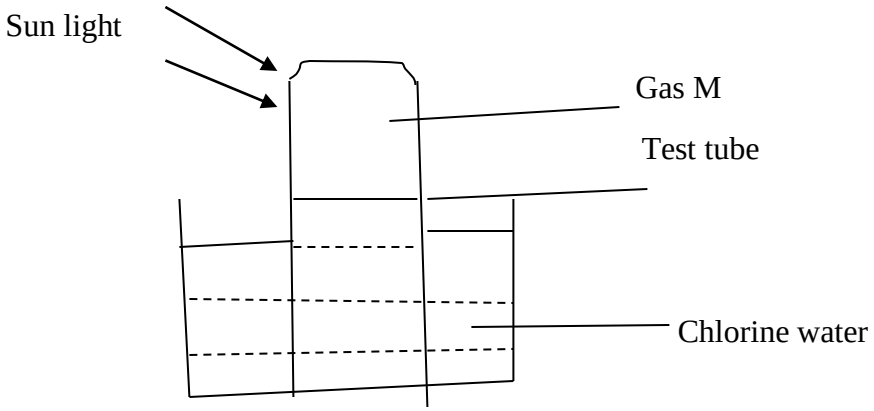
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14. In an experiment, a test tube of chlorine gas was inverted in water as shown in the diagram. It was then left to stand in sunlight for one day.



At the end of experiment (after one day)

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

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

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

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(iii). Thecolour of chlorine water was observed to have changed from pale yellow to colourless after one day. Explain. (2mks)

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

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

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

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

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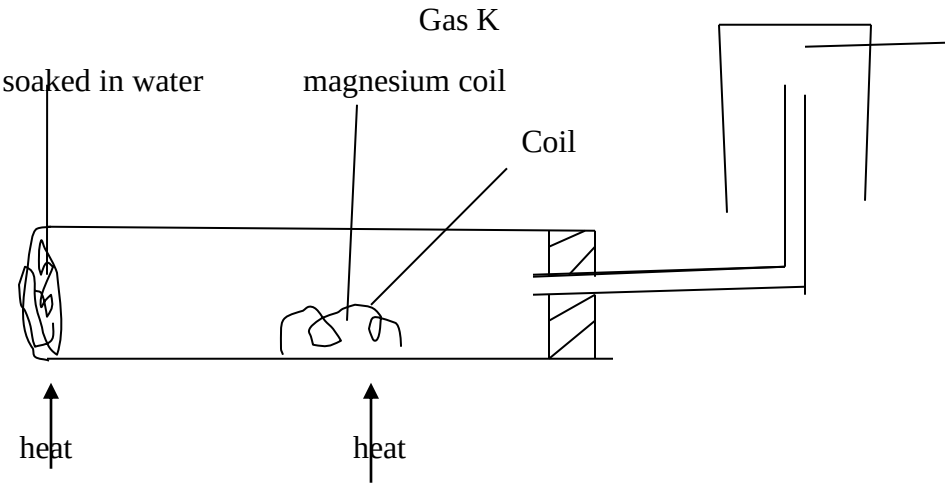
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15. A student set up the experiment below to collect gas K. the glass wool was heated before heating the magnesium coil.



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

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(b).Identify gas K. (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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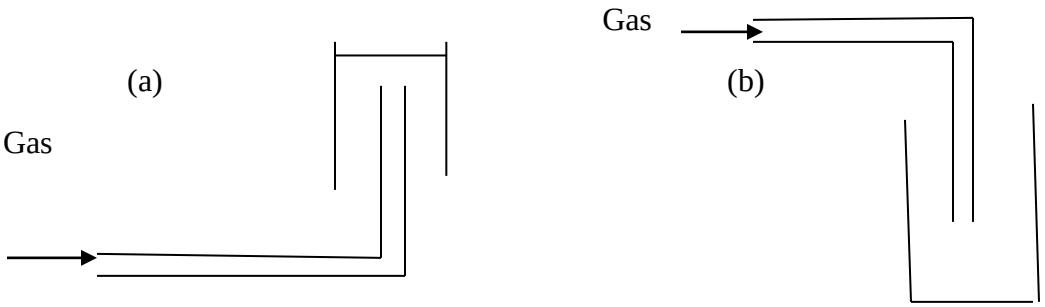
(d). Write a chemical equation for the reaction that produced gas K. (1mk)

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



(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)

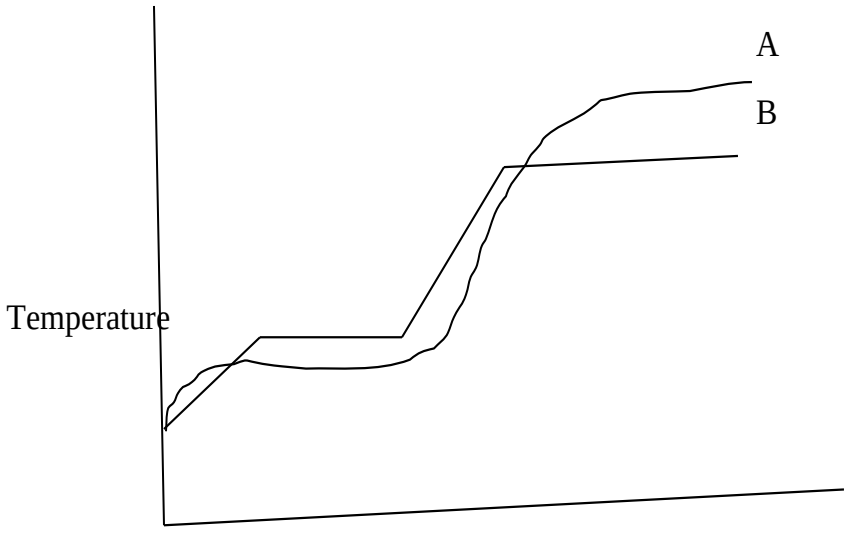
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17. The curves bellow represent the variation of temperature with time when pure and impure samples of a solid were heated separately.



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

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

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

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

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

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

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FORM 2 END TERM 2 SERIES 2 EXAMS

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END OF TERM 2 EXAMS
CRE FORM 2
TIME: 2 HOURS

INSTRUCTIONS.
Answer all questions in the spaces provided.

1. What are the divisions of the Books in the Bible? (7mks)

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2. With reference of creation stories in Genesis 1 and 2 give six teachings about marriage. (6mks)

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3. Describe how God tested Abraham's faith in Genesis (22:1-19). (8mks)

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4. Give five life skills used by Elijah to fight false religion in Israel. (5mks)

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5. Explain the Jewish expectations concerning the Messiah. (5mks)

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6. Describe the incident in which Jesus healed Jairus daughter.(Luke8:40-56) (7mks)

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7. State five reasons why Jesus used parables. (5mks)

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8. From the story of naboths vineyard state five commandments which king Ahab and queen jezebel broke. (5mks)

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9. Narrate the parable of the widow and unjust judge Luke 18:1-8. (6mks)

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10. With reference to Luke 1:8 20, describe the annunciation of the birth of john the Baptist. (7mks)

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11. Describe the incident when Jesus was tempted in the wilderness(Luke 4:1-13). (5mks)

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12. State four ways in which Christians demonstrate their faith in God. (4mks)

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FORM 2 END TERM 2 SERIES 2 EXAMS

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ENGLISH

FORM 2

END OF TERM 2 EXAMS

TIME: 2 HOURS

Answer all the questions in the spaces provided.

SECTION A: FUNCTIONAL WRITING (10 MKS)

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

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

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SECTION B: COMPREHENSION (20 MARKS)

Read the passage below and answer the questions that follow.

THE VILLAGE DEGREE

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

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

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

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

As for Mwongeli, her mother had told her not to mix men and education. In obedience, she kept the two apart and sure enough, after four more years, yet another letter came to her and there was

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cause for women folk in her village to celebrate `again. The daughter had been admitted to study for a degree in Electrical engineering at the university of Nairobi, the only woman in the class of twenty. Yes, she was no longer Mwongeli ….. she was already a village engineer. In fact, the name Mwongeli even it its form 'Ngeli" was lost. Now the focus was a degree. She was now Engineer Mwongeli'

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

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

QUESTIONS:

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

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

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

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Prefer Calling Sir Obiero Amos @ 0706 851 439 for Marking Schemes

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

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

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

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

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

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

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

(i) Stealthily –

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(ii) Attire –

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(iii) Reverie –

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SECTION C: CLOZE TEST (10 MARKS)

Fill in the blank spaces with the most appropriate word

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

SECTION D: ORAL SKILLS (15MARKS)

POETRY

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

INFANT SORROW

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

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

QUESTIONS:

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

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

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

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(b) The principal of your school visits your class during a class meeting. As the class prefect, You are sited at the front of the class. You note that some students are not listening.

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State three observations that are evidence enough that they are not listening.(3 mks)

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

(i) Queue – _____

(ii) Male – _____

(iii) Him – _____

(v) Rain – _____

SECTION E: GRAMMAR (15 MARKS)

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

(i) The _____ between Makuyu and Kameno had been the greatest challenge for the people (enemy).

(ii) There has never been such an _____ in our school (occur).

(iii) The chronic_____ will eventually lead to her poor performance(absent).

(iv) Mr. Makori works in the vehicle _____department (maintain).

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

(3 marks)

(i) The three _____ were arrested by the police. (passer-by)

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(ii) How many _____ does the computer have? (word-processor)

(iii) The _____ are very powerful in the armed forces (commander-in-chief)

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

(i) They found the _____ car parked outside the office (white, metallic, small)

(ii) They talked to the _____ watchman.(Old, ugly, Congolese)

(iii) I will buy her a _____ table (wooden, coffee, beautiful)

(e) Use the correct preposition to complete the sentences. (3 mks)

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

(ii) We need to sit _____ the shade.

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

(f) Fill in each blank space with the correct collective noun. (2 mks)

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

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

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GEOGRAPHY FORM II, TERM 2 **TIME: 2 HOURS**

Answer all the questions in the spaces provided

1. List three types of field work. (3mks)

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2. Give four methods of data presentation. (4mks)

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3. State four negative effects of mining on the environment? (4mks)

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4. State four economic importance of minerals in Kenya. (4mks)

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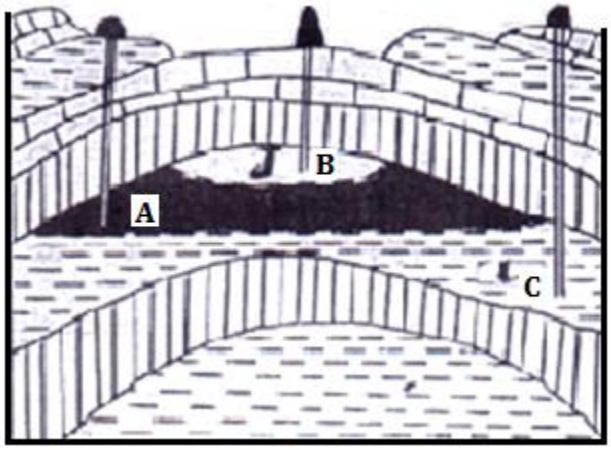
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5. The diagram below show the occurrence of a fossil fuel



Name the substances in the area labeled A, B and C. (4mks)

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6. The table below shows petroleum production in thousand barrels per day for countries in the Middle East in April 2006 use it to answer questions.

COUNTRY	PRODUCTION IN '000' BARRELS
Iran	3800
Kuwait	2550
Qatar	800
Saudi Arabia	9600
U.A.E	2500
Iraq	1900

a) What in the difference in introduction between the highest and the lowest producer. (1mk)

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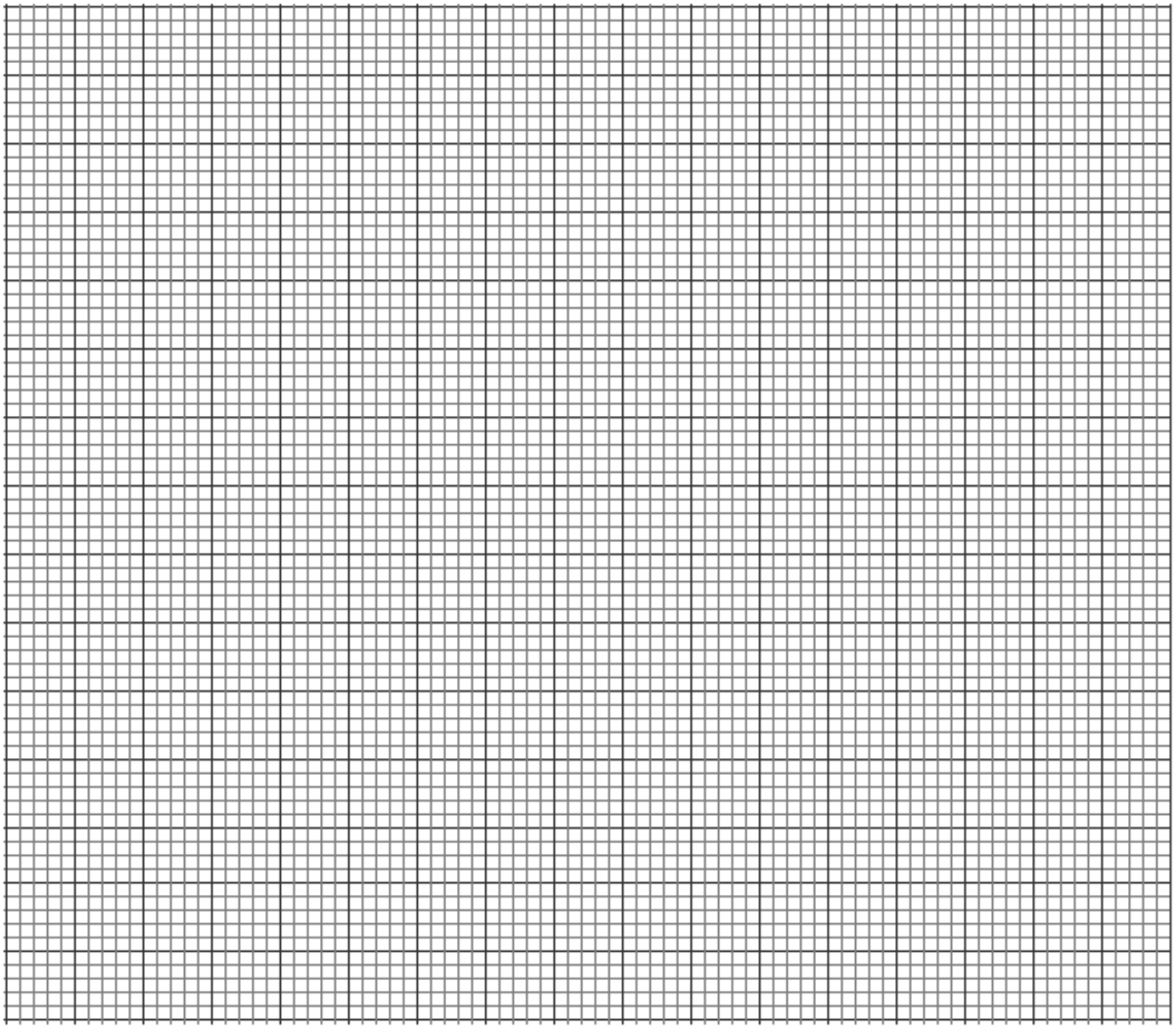
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b) What is the total amount of petroleum produced in April 2006 in the region?(2mks)

c) What is the mean of petroleum produced in the April 2006 in the region? (3mks

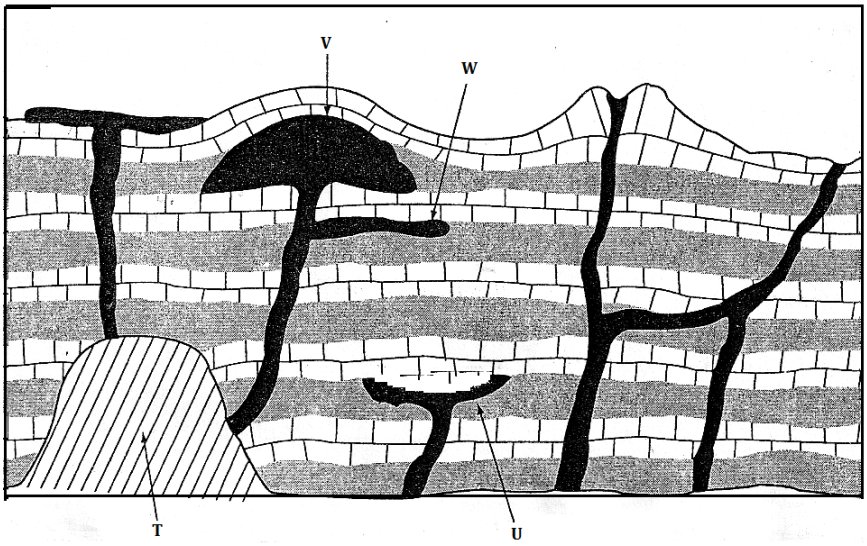
d) Draw a simple bar graph to represent the data in the table above. Use a scale of 1cm represents 1,000,000 barrels. Use the graph paper provided. (7mks)



7. Draw a diagram to show a simple field and on it mark and name;
   i) An anticline
   ii) A limb
   iii) Syncline. (4 marks)

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8. The diagram above represents features as vulcanicity. Use it to answer the question that follows;



a) Name the features labeled T, U, V and W (4mks)

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b) Differentiate between magma and lava. (2mks)

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9. Name two fold mountain in Africa. (2mks)

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10. What is a photograph? (2mks)

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11. State three characteristics of ground general view photographs. (3mks)

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12. What is climate? (2mks)

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13. Give four factors influence climate. (4mks)

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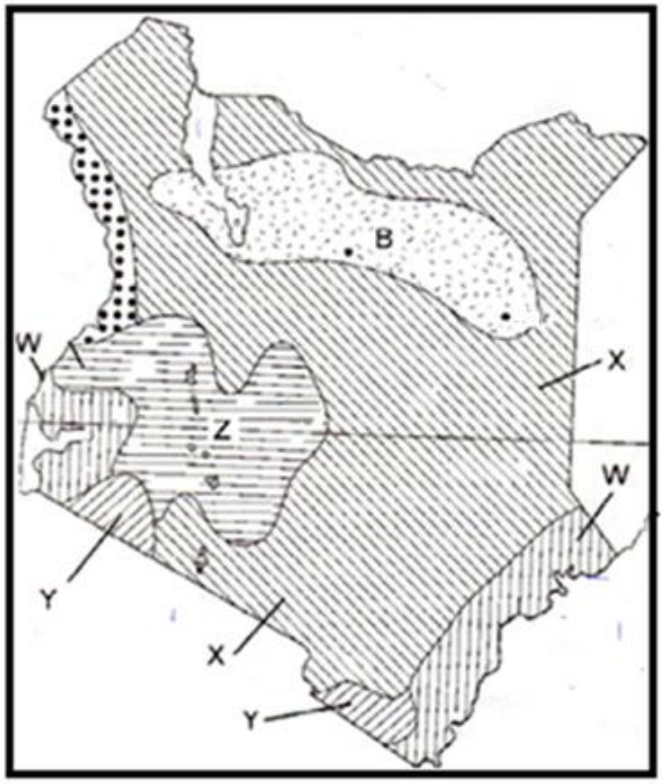
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14. The diagram below shows the climatic regions of Kenya.



a) Identify the climatic regions marked W, X, Y and Z. (4mks)

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b) Describe the characteristics of climate region marked B. (5mks)

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15. (a) Differentiate between natural vegetation and secondary vegetation. (2mks)

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(b) Outline four factors that influence the distribution and type of natural vegetation in Kenya. (4mks)

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FORM 2

END TERM 2 YEAR

HISTORY

SECTION A

1. Identify **two** ways on how archaeologist discover historical sites (2mks)

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2. Which type of government do we have in Kenya (1mk)

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3. Identify **two** branches of the study of history and government (2mks)

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4. Give **two** sub-species of Homo sapiens (2mks)

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5. State **two** methods used by the early man to find food during the stone age period (2mks)

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6. State **two** theories explaining the origin of agriculture (2mks)

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7. Define the term Agrarian Revolution (1mk)

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8. Identify the **Main** Source of industrial energy in Europe from mid-20th Century (1 mark)

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9. Which country pioneered industrial revolution in Europe (1mk)

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10. Identify the **major** contribution of Edward Jenner to the field of science (1 Mrk)

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11. Identify **two** uses of Bronze in Ancient Africa. (2 mks)

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12. Give **one** invention that was made by Isaac Newton. (1mk)

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13. State **TWO** factors that led to the development of Kilwa into a town (2 marks)

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14. List factors that favoured the development of Athens (2mks)

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15. Name **one** important activity associated with the city of Athens (1 Mrk)

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16. Give **two** functions of Buganda traditional parliament.. (2marks)

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17. Give **THREE** economic factors which contributed to the growth of Asante kingdom in the Pre-colonial period. (3 marks)

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18. Name two early sources of energy. (2 marks)

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SECTION B (40 MARKS)

(Answer all the questions)

19. a) State **four** characteristics of the local trade (4mks)

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b) Explain **three** factors that led the development of Trans-Atlantic Trade (6 mks)

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20.

a) Give **five** ways in which the discovery of iron technology affected the lives of African Communities during the pre-colonial period (5mks)

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b) Mention **five** factors which contributed to industrialization of Germany in the nineteenth Century (5 marks)

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21.

a) State **Four** functions of ancient city of Cairo. (4mks)

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b) Explain the factors which contributed to emergence of urban centres in pre-colonial Africa (6 mks)

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a) Explain the factors for the rise and growth of the Buganda kingdom (5marks)

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b) Describe the social organization of the Shona in the pre-colonial period (5 marks)

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FORM 2 END TERM 2 SERIES 2 EXAMS

JINA: ……

NAMBARI YA USAJILI: …… TAREHE:……

KIDATOCHA PILI

KISWAHILI KIDATO CHA PILI

MWISHO WA MUHULA WA PILI

UFAHAMU: (ALAMA 15)

Soma kifungu kifuatacho kisha ujibu maswali:

Takwimu zilizothibitishwa zaonyesha kuwa kila sekunde nane mtu mmoja hufa duniani kutokana na utumiaji wa tumbako. Kwa siku basi, watu 10,800 hufa. Wengi wa wavuta sigara huanza katika umri kati ya miaka kumi na mitatu hadi kumi na tisa. Takwimu zaonyesha kuwa mtu akivuta sigara kwa zaidi ya miaka ishirini huupunguza umri wake kwa kati ya miaka 20 hadi 25 zaidi ya ambaye hajawahi kuvuta. Hii ni kwa kuwa tumbako ina zaidi ya kemikali 4,000 zinazodhuru afya.

Mojawapo ya madhara makuu zaidi yanayosababishwa na sigara ni saratani. Kunayo saratani ya ngozi – vidonda visivyopona huchubuka ngozini na baada ya muda hugeuka na kuwa kansa. Iri ya mapafu hutokea vifuko vya hewa vinapopasuka na hivyo kutatiza uvutaji wa oksijeni na utoaji wa kabondayoksaidi. Moshi pia husababisha madhara kwa njia ya kupitisha hewa, yaani umio, ambapo njia hii yaweza hata kuzibika hivyo kulazimu tundu kutobolewa kooni ili mgonjwa aweze kupumua. Kabla ya kufika kooni na mapafuni, moshi hupitia mdomoni. Saratani ya mdomo na ulimi basi hupatikana zaidi miongoni mwa wavuta sigara. Pia kidonda chochote, kwa mfano baada ya kung'olewa jino, huwa vigumu kupona kwa mvutaji sigara.

Kwa wanawake, kuna hatari ya kupatwa na iri ya fuko la uzazi. Madhara kwenye njia nzima ya uzazi huifanya iwe vigumu kwa wanawake wavuta sigara kuhimili. Ni rahisi pia kuzaa njiti. Mtoto wa mvutaji huzaliwa akiwa mwepesi zaidi ya kawaida. Hii husababishwa na kabonimonoksaidi kutoka kwa sigara inayomdhuru mtoto tumboni. Saratani hii husababisha hata kifo cha mtoto aliye tumboni. Wengine wazaliwapo huwa na hatari ya kupatwa na saratani zaidi ya waliozaliwa na akina mama wasiovuta sigara.

Aina zaidi za saratani zinazowakumba wavuta sigara ni kama vile saratani ya pua, ya tumbo, ya figo, ya kibofu cha mkojo, ya kongosho, ya njia ya kinyesi na hata saratani ya matiti inayowaathiri zaidi wanawake.

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Shida za sigara sio saratani pekee; sigara husababisha shida za macho na masikio kwa kiasi kikubwa. Mboni ya jicho yaweza kufunikwa na utando, hali inayoweza kusababisha hata upofu. Macho yaweza kuwashwa na moshi mkali wa sigara au mishipa ya macho iathirike na kemikali zinazofika kwayo kupitia kwa mishipa mapafu yanapoathirika. Masikio nayo huathiriwa na uchafu wa tumbako unaoganda kwenye mishipa hadi sehemu za ndani za masikio. Damu hupunguza mwendo ufaao masikioni hivyo yanaugua. Moshi na kemikali za tumbako pia hujeruhi sehemu za ndani na athari hii yaweza kuenea hadi ubongoni na kusababisha utando unaofunika ubongo. Hali hizi zaweza kusababisha uziwi.

Mifupa na meno huathirika pia. Mifupa huwa myepesi, hukosa nguvu na kuwa rahisi kuvunjika. Mvuta sigara akivunjika mfupa huchukua muda wa asilimia themanini (80%) kupona zaidi ya mtu asiyevuta. Meno nayo hutatizika katika ukuaji wake kutokana na kugandwa na moshi wenye kemikali. Hali hii husababisha harufu mbaya, uchafu pamoja na kuoza kwa meno.

Ngozi ya mvuta sigara hukaushwa na kemikali kwa sahabu uwezo wake wa kujirekebisha na kujilainisha hupunguzwa pakubwa. Hali hii husababisha ukavu unaoonekana pamoja na makunyanzi yanayomfanya mvuta sigara aonekane mzee zaidi ya umri wake. Vidole navyo vilevile hugandwa na kutu ya sigara, nazo kucha na vidole hugeuka rangi vikawa vya manjano, hudhurungi au maji ya kunde. Vidole pia hukaushwa na moto na kemikali ya sigara. Nywele za mvuta sigara pia huathirika kwa kuwa kemikali huipunguza kinga ya mwili hivyo mizizi ya nywele kukosa nguvu. Nywele za mvuta sigara zaweza kung'oka mapema.

Sigara husababisha magonjwa ya moyo na vidonda vya tumbo. Kwa moyo, sigara husababisha shinikizo la damu na hatimaye mshtuko wa moyo waweza kutokea na kusababisha hata kifo. Kwa tumbo, sigara hupunguza uwezo wa kinga zake wa kuikinga dhidi ya asidi zinazosaga chakula. Pia hupunguza uwezo wa mwili wa kujikinga dhidi ya vidonda vya tumboni. Vidonda vya tumbo vya mvuta sigara huwa vigumu kupona na, ni rahisi kutokea tena baada ya kupona.

Kwa mwanamume, mpigo wa damu kwenye sehemu za uzazi huathiriwa. Hali hii ikizidi husababisha hata upungufu wa nguvu ya mbegu kwenye shahawa. Hata ugumba waweza kutokea. Pia watoto wa mwanamke mvuta sigara waweza kuzaliwa wakiwa na kasoro. Mimba zingine zilizotungwa na wanawake wavuta sigara pia hutunguka. Na si hayo tu; madhara ya sigara ni mengi zaidi.

Maswali

a) Yape makala haya kichwa. (alama 2)

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b) Mbali na athari kwa uzazi kwa wanawake na wanaume na sura/umbo la binadamu, taja madhara mengine ya uvutaji sigara kwa binadamu. (alama3)

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c) Kwa kurejelea kifungu onyesha kwamba sigara kwa wanawake hasa ni hatari mno. (alama 4)

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(d) Je, ni kweli kuwa vifo vingi hutokea kwa sababu ya uvutaji sigara? Toa sababu. (alama 2)

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(e) Eleza namna ambavyo uvutaji sigara huathiri sura ya mhusika. (alama 3)

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(f) Eleza maana ya msamiati ufuatao kama ulivyotumiwa kwenye taarifa. (alama 1)

Gandwa

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MATUMIZI YA LUGHA. AL 35

1. Eleza maana ya ishali zifuatazo. (al 2)
   (i) Mofimu

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   (ii) Viambishi

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2. Andika kwa wingi sentensi hii; (al 1)

   (i) Goti la mtoto liliumia ————————————————————————

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3. Bainisha nomino hizi ni za aina gani. (al 1)

   (i) Mzee .....

   (ii) Oduori .....

4. Tumia vivumishi vya sifa katika mabano kukamilisha sentensi zifuatazo. (al 2)

   (i) Mtoto yule ni _____ (nene)

   (ii) Kiberiti si kifaa _____ kubeba. (zito)

5. Kamilisha sentensi zifuatazo kwa kuchaza viambishi vya upatanisho vya —ingine. (al 2)

   (i) Mahali _____kulikobaki ni kwao.

   (ii) Mwizi huyo _____hakupigwa risasi.

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6. Ziandike upya sentensi zifuatazo ukitumia ‘O’rejeshi. (al 2)

(i) Meno ambayo yanamuuma yatatiwa dawa.

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(ii) Kioo ambacho kilinunuliwa ni kipya.

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7. Tambulisha vitenzi visaidizi katika sentensi hizi. (al 2)
(a) Hajaenda kusoma

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(b) Niliwahi kumweleza.

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8. Sahihisha sentensi zifuatazo kimapokeo. (al 2)
(i) Zizi tuna sisi la ng’ombe kwetu.

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(ii) Kiza cha abunuwasi kwenye kisa kinazikitisha.

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9. Andika sentensi zifuatazo kwa wingi. (al 2)
(i) Nitaenda alasiri kumwangalia alikoenda.

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(ii) Atamwinda mnyama huyo kisirisiri.

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10. Tumia kihusishi kifaacho katika sentensi zifuatazo. (al 3)

(i) Amechuma matunda _____rafiki yake

(ii) Walikimbia _____swara.

(iii) Tutafanya kazi _____wenzetu.

11. Tunga sentensi ukitumia vihisishi ukionyesha hisia zifuatazo. (al 2)

(i) Furaha.

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(ii) Dharau.

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12. Andika kinyume cha vitenzi vifuatavyo. (al 2)

(i) Tandika _____

(ii) Unga _____

13. Kamilisha methali zifuatazo. (al 2)

(i) Kawia _____

(ii) Chovya chovya _____

(iii) Isipowasha_____

(iv) Cha kuzama_____

14. Kanusha sentensi zifuatazo. (al 2)

(i) Nilimwona akicheza

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(ii) Ningalienda kwake ningalimpata.

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15. Tambua kikundi Nomino na kikundi Tenzi katika sentensi zifuatazo. (al 2)
(i) Mwanafunzi amevaa sare safi mno

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(ii) Sakafu ile inateleza sana

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16. Andika sentensi ifuatayo katika usemi wa taarifa. (al 2)
"Njoo hapa" Asksri alimwita Juma.

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17. Unda nomino mbili kutokana na kitenzi safari. (al 2)

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18. Andika kitenzi kifuatacho katika kauli ya kutendeswa. (al 1)
Panga

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FASIHI SIMULIZI AL 10

1. (a) Eleza maana ya methali (al 2)

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(b)Fafanua sifa nne za methali (al 8)

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ISIMU JAMII AL 10

1. (a) Eleza maana ya sajili ya bungeni. (al 2)

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(b) Taja sifa nane za sajili ya bungeni. (al 8)

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FORM 2 END TERM 2 SERIES 2 EXAMS

Name: ……

School: ……

Index no: …… Candidate's signature: …… Date: ……

MATHEMATICS
FORM 2
END TERM 2 EXAM
TIME: 2 HOURS

SECTION A (50MKS)
Instructions.
Answer all questions in this section in the spaces provided.

1. Use logarithms to evaluate. (4mks)

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

2. Three similar bars of length 200 cm , 300cm and 360 cm are cut into equal pieces. Find the largest possible area of square which can be made from any of the three pieces.(3mks)

3. A triangle has vertices A(2,5), B(1, -2) and C(-5,1). Determine:
   a) The equation of the line BC. (3mks)

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b) The equation of the perpendicular line from A to BC. (3mks)

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

5. Without using a mathematical table or calculator solve the following. (3mks)

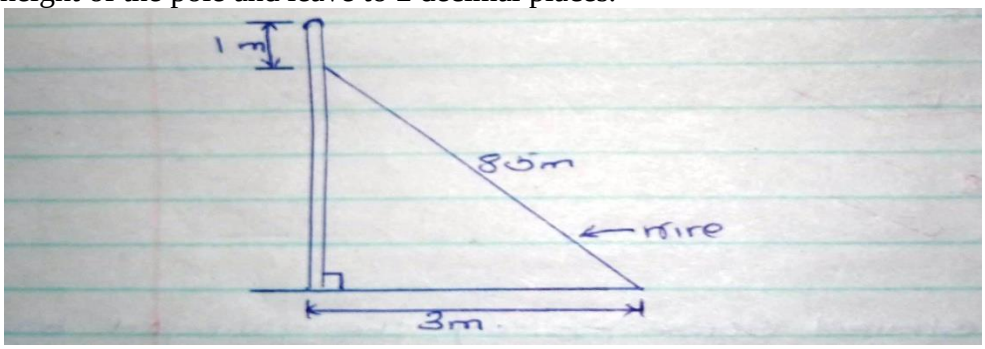
$$\frac{\sqrt[3]{0.729 \times 409.6}}{0.1728}$$

6. Three boys shared some money, the youngest boy got ½ of it and the next got $^1/_9$, and the eldest got the remainder. What fraction of money did the eldest receive? If the eldest got sh 330, what was the original sum of money? (4mks)

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

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



9. From a window 25m above a street, the angle of elevation of the top of a wall on the opposite side is 15^0. If the angle of depression of the base of the wall from the window is 35^0 find:
   a) The width of the street. (2mks)

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

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10. Simplify: (2mks)

$$\frac{25^{3/2} \times 9^{\frac{1}{2}} \times 2^2}{5^2 \times 3^2}$$

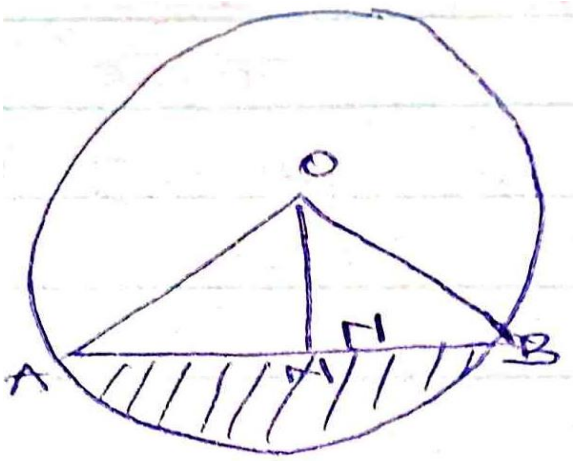
11. Solve the in equality: (3mks)

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

12. Solve the following: (3mks)

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

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



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14. Expand and simplify: (2mks)

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

15. The length of a rectangle is three times its breadth. If its perimeter is 24cm what is the length of the rectangle. (2mks)

b) Area of rectangle. (2mk)

SECTION B

Answer any two questions.

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

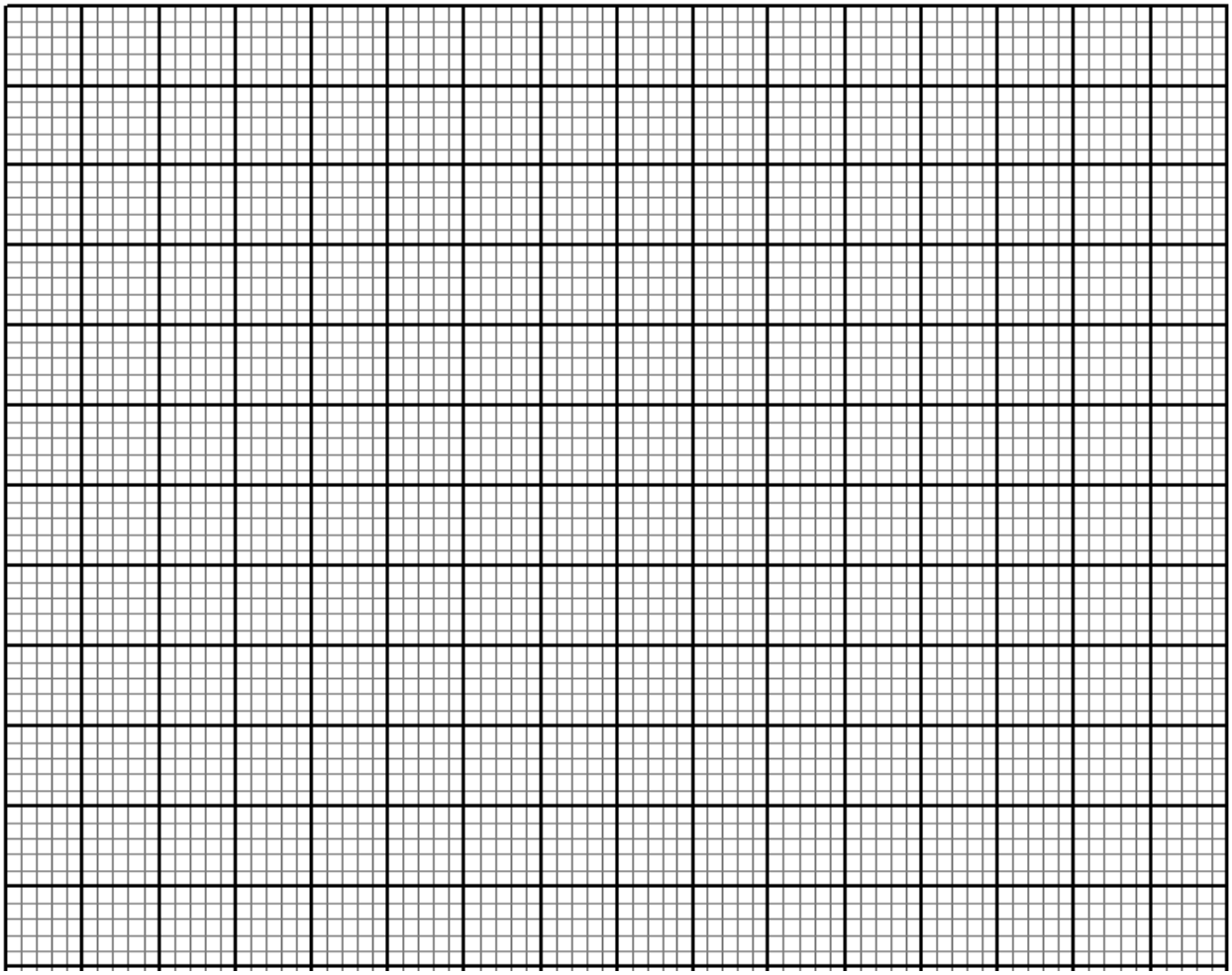
a) Calculate the volume of milk in the tank in cubic metres. (2mks)

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

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

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



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i. Triangle ABC (1mk)

ii. The line y=x+1 (2mks)

iii. Triangle A'B'C' (3mks)

b. Triangle A''B''C'' is the image of triangle A'B'C' under a negative quater turn, with the centre of rotation as origin (0, 0). On the same grid draw triangle A"B"C" (4mks)

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

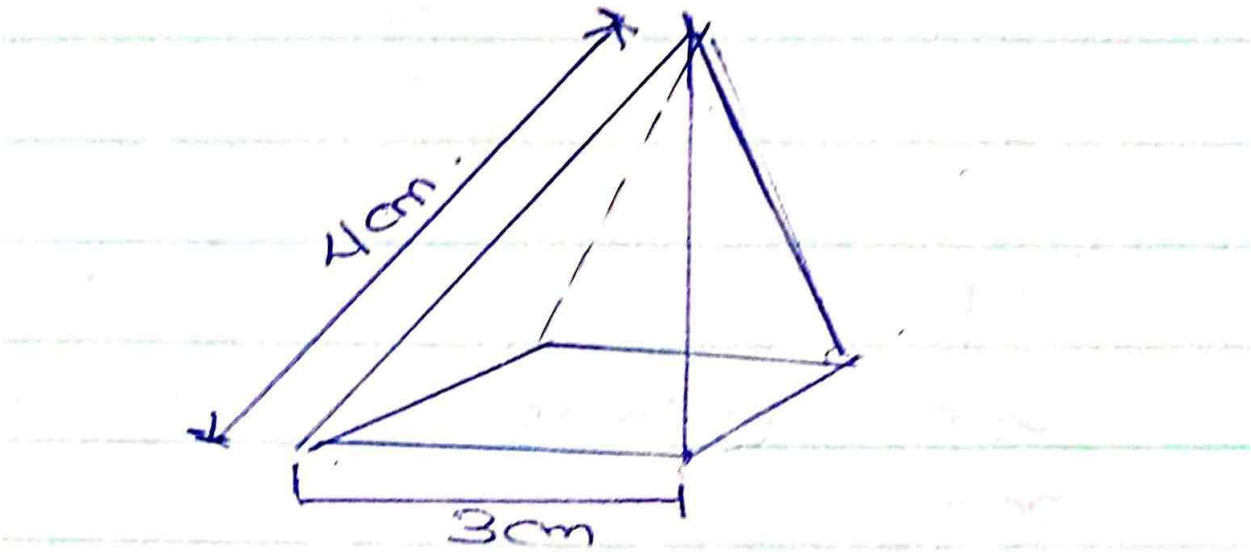
	Y	
	360	80 to Q
	280	
To R 80	200	
To S 160	80	200 to P
	X	

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

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

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



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

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

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

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FORM 2 END TERM 2 SERIES 2 EXAMS

Name: ……

School: ……

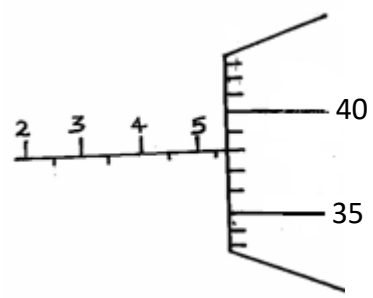
Index no: …… Candidate's signature: …… Date: ……

END OF TERM II
FORM 2 PHYSICS
TIME: 1 HOUR 45 MINS

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

SECTION A : (30 MARKS)

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



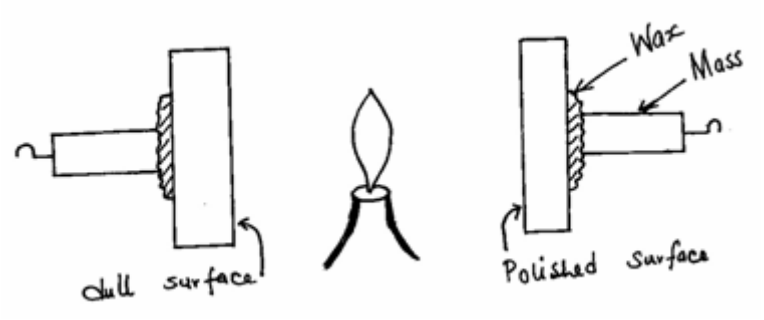
Record the diameter of the ball. (2mks)

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

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3. A fixed mass of pure water was cooled from 20°C to O°C. Sketch a graph of density of the water against temperature. (2mks)

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



Give and explain the observation made. (2mks)

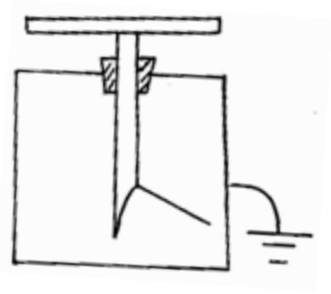
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5. The figure **below** shows a charged leaf electroscope.



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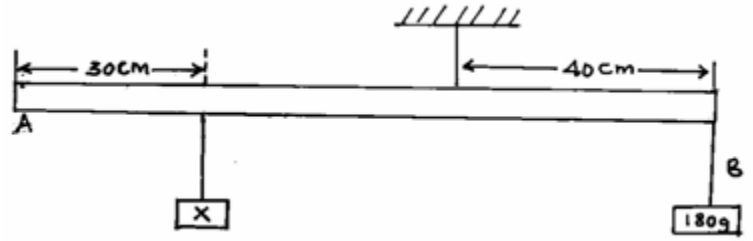
Given a dry glass rod and silk cloth, explain how you would determine the type of charge on the electroscope. (2mks)

6. State **two** advantages of alkaline accumulator over the lead-acid cell. (2mks)

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



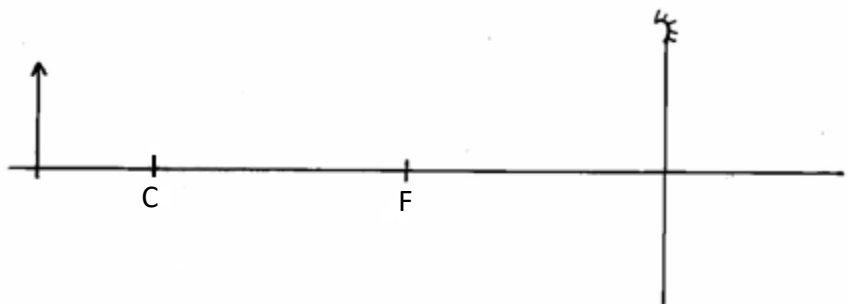
8. The diagram shows a system in equilibrium with the uniform rule supported at Q and resting horizontally.



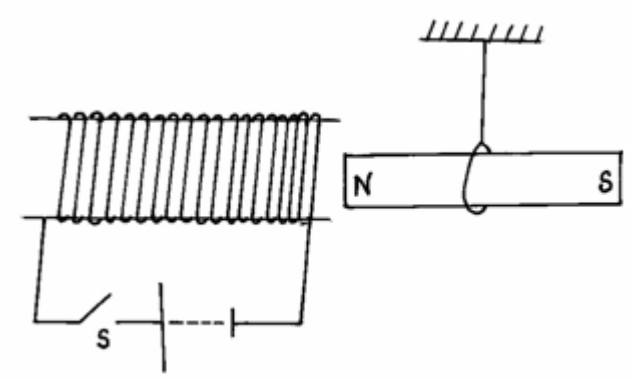
The rule is 1m long and weighs 1.8N. Calculate the weight of the block X. (3mks)

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



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



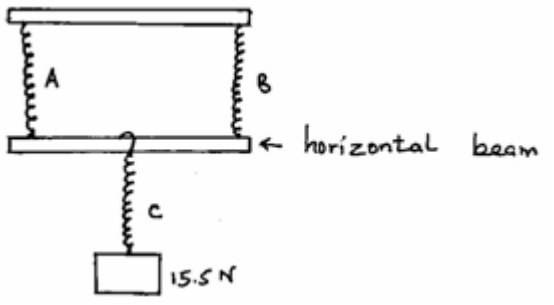
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11. Three identical springs **A**, **B** and **C** are used to support a 15.5N weight as shown in the figure **below**.



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If the weight of the horizontal beam is 0.5N, determine the extension of each spring given that 4N cause an extension of 1cm when using one spring. (3mks)

12. State **one** of the major differences between mechanical waves and electromagnetic waves. (2mks)

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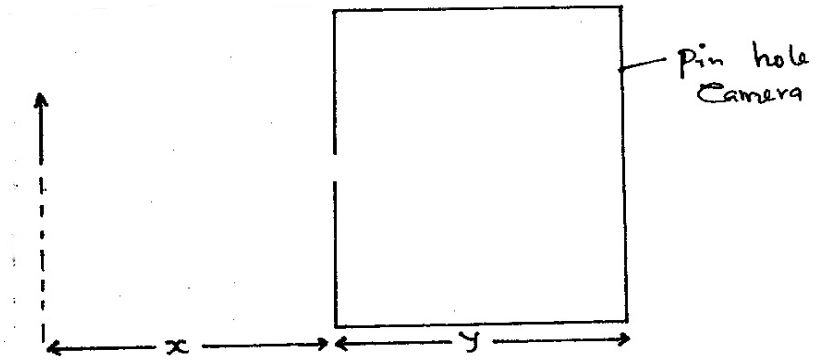
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13. A boat sent an ultrasound signal to the bottom of the sea and its echo received after 10 seconds. If the wavelength of the ultrasound in water is 0.05m and the frequency of the transmitter is 50 KHz, calculate the depth of the sea. (3mks)

SECTION B: (40 MARKS)

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



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

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

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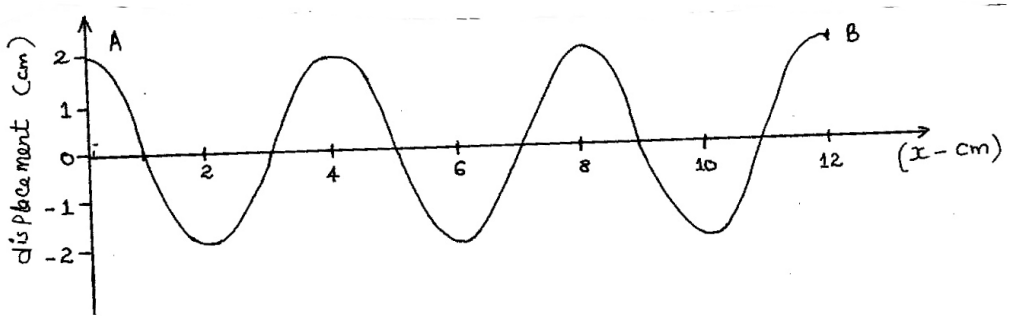
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(d) If χ = 30cm, y = 12cm and the heights of the image is 4cm, calculate the height of the object. (3mks)

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



(a) Determine

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

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

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

(b) Calculate:

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

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

16. (a) What is diffusion? (2mk)

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

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

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

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

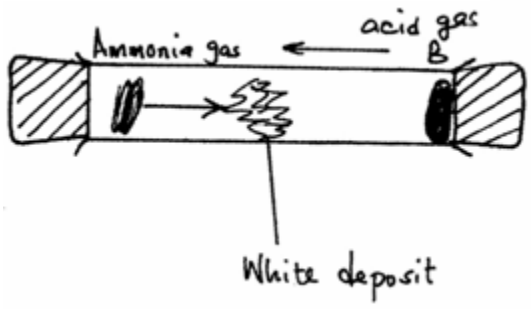
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(d) In the figure **below**, ammonia gas and acid gas diffuse and react to form a white deposit on the walls of a long glass tube as shown.



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

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(ii) How does the density of a gas affect the rate of diffusion? (1mk)

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(iii) The experiment is performed at a lower temperature. State and explain what would happen to the rate of diffusion of the gases. (2mks)

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

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(b) Sate Pascal's Principal. (1mk)

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

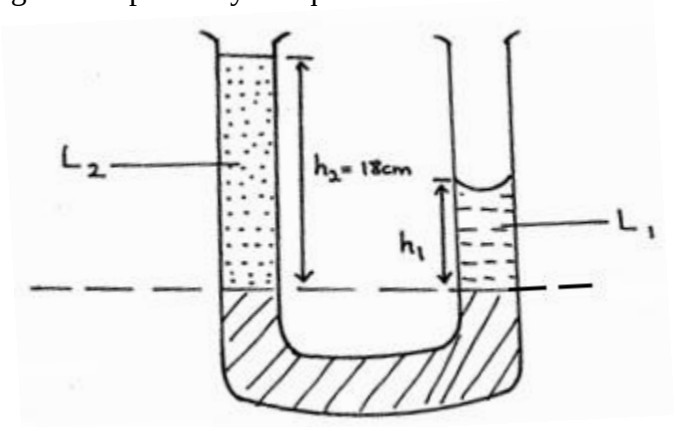
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(d) Figure **3** shows a U-tube containing two liquids L_1 and L_2 of densities 1.6g/cm³ and 0.8g/cm³ respectively in equilibrium.



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

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