FORM THREE MID TERM ONE

SERIES ONE EXAMS *(11 SUBJECTS TESTED)*



FORM 3 MID TERM 1 SERIES 1 EXAMS

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MID-TERM 1 SERIES 1 EXAMS

FORM 3 TERM 1 EXAM

NAME ……

ADM …….. CLASS…….SCH……

Instructions:

Answer all the questions in the spaces provided

1. Differentiate between feedstuff and feed (2mks)

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2. a). Name three sources of water in the animal body (3mks)

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b) List four functions of water in an animal (4mks)

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3. a) What is a parasite? (1mks)

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b) Give four effects of parasites in livestock (4mks)

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4. Name two categories of parasites. (2mks)

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5. a) What is the meaning of the term predisposing factors as used in livestock health? (1mk)

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b) List four pre-disposing factors of diseases in livestock. (4mks)

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7. Name any three types of vegetables. (3mks)

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8. Differentiate between monocropping and intercropping. (2mks)

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9. Define crop rotation (1mk)

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10. Name four signs of heat in a cow (4mks)

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11 a)Differentiate between a nursery bed and a seedbed. (2mks)

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b. Give four factors considered when siting a nursery (5mks)

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12. Give an example of a crop in which the following vegetative propagation material are used (4 mks)

a) Splits:

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b) Slips:

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c) Stem tubers:

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d) Stem cutting

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13. State four reasons for preparing land before planting (4mks)

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14. Name two categories of plant nutrients (2mks)

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15.a) What is soil sampling? (1mk)

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b) State two soil sampling methods (2mks)

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16. Give four characteristics of nitrogenous fertilizers (4mks)

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17. List five commonly kept records in a farm (5mks)

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18. Name five factors considered when selecting a breeding stock (5mks)

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20. List five biotic factors affecting agricultural production (5mks)

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Name:……

Class:……Adm No:…….Sch ……

MID-TERM 1 SERIES 1 EXAMS

BIOLOGY

FORM 3 TERM 1

TIME: 2HRS

INSTRUCTIONS.

Answer all the questions in the spaces provided.

1. Name two external features found in class mammalia only. (2mks)

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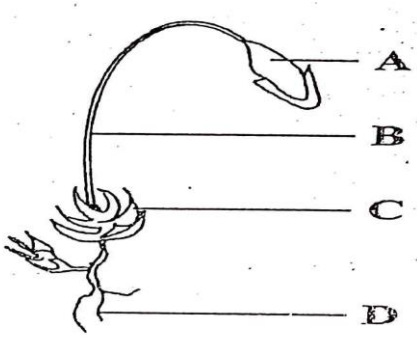
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b. Name the taxonomic unit that comes immediately after a phylum in classification. (1mk)

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2. The diagram below represents a plant in the division Bryophyta.



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i. Name the parts labeled B and D. (2mks)

B ……

D ……

ii. State one function of the parts labeled A and C. (2mks)

A ……..

C ……..

3. A student collected an organism and observed the following features.
   Simple eyes, four pairs of legs and two body parts.

I. State the class to which the organism belongs. (1mk)

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II. Give an example of an organism in this class. (1mk)

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b. Name the kingdom to which plasmodium belongs. (1mk)

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4. List the three branches of biology. (3mks)

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5. Give the formula used to calculate magnification in a light microscope. (1mk)

b. Give the reasons for each of the following steps when preparing a cross-section of a stem or leaf for examination under the microscope. (3mks)

I. Cutting very thin sections

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II. Using sharp razor blade during the cutting.

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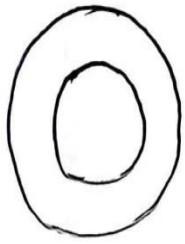
III. Placing sections in water

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6. The diagrams below show a red blood cell that was subjected to a certain treatment.



At start



At the end of experiment

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a) Account for shape of the cell at the end of the experiment. (2mks)

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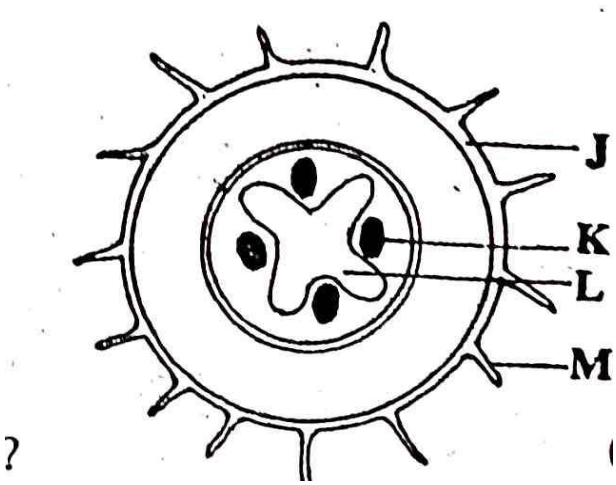
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b) Draw a diagram to illustrate how a plant cell would appear if subjected to the same treatment. (1mk)

7. The diagram below represents a transverse section through a plant organ.



a) From which plant organ was the section obtained. (1mk)

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b) Give two reasons for your answer in (a) above. (2mks)

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c) Name the parts labeled J, K and L. (3mks)

J ……

K ……...

L ……...

8. Give two advantages of being a homoeotherm. (2mks)

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b. If a person's pancreas is not functional:

i. What hormones may be deficient in the person? (2mks)

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ii. Name the disease the person is likely to suffer. (1mk)

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9. Study the word equation below.

Glucose ⟶ Ethanol + carbon (IV) oxide + ATP

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a) Name the process shown in the equation above. (1mk)

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b) Suggest the organism(s) in which it takes place. (1mk)

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c) Give two application of the process in industry. (2mks)

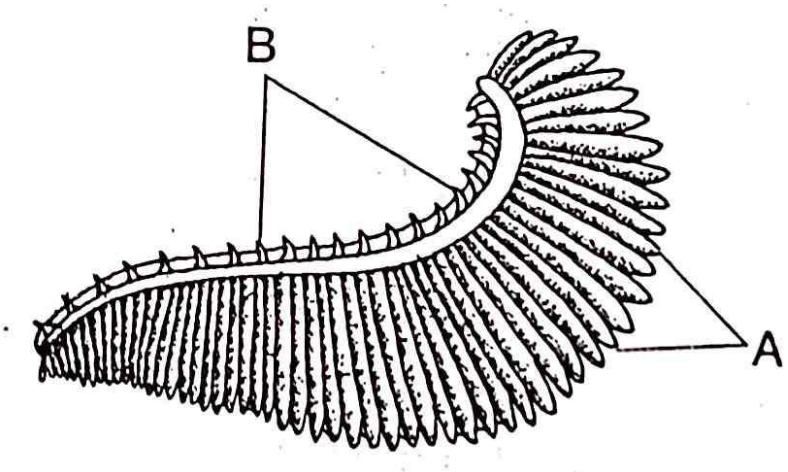
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10. Study the diagram below and answer the questions that follow.



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

A ……

B ……..

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b) How are the parts labeled A adapted to their functions. (3mks)

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11. State one function of each of the following cell organelles.

a) Golgi bodies (1mk)

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b) Lysosomes (1mk)

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c) Ribosomes (1mk)

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12. The following is the dental formula of a certain mammal.

i 0	c0	Pm3	m3
3	1	3	3

a) State the likely mode of feeding for the mammal. (1mk)

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

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c) Name two dental diseases. (2mks)

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13. A person whose blood group is AB requires a transfusion. Name the blood groups of possible donors. (2mks)

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14. Name a vitamin, an enzyme and a mineral element that are involved in blood clotting. (3mks)

Vitamin

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Enzyme

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Mineral element

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15.Name the process by which each of the following occurs.

a) Molecules such as amino acids and glucose enter the body cell. (1mk)

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b) Glucose and mineral salts are re-absorbed into the blood in the kidney. (1mk)

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c) Water is absorbed from soil by root hairs. (1mk)

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d) Carbon (IV) oxide moves from the body cells to the blood capillaries. (1mk)

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16.The diagram below shows part of the respiratory system of a certain animal.

a) Name the structure labeled A and state its functions. (2mks)

Structure

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Function

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b) What is the advantage of the ringed structured labeled B. (1mk)

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17. The equation below shows the oxidation reaction of food substances.

$5C(s)H_{98}O_6 + 145O_2 \longrightarrow 102CO_2 + 98\ H_2O$ + energy

a. What do you understand by the term respiratory quotient? (1mk)

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b. Determine respiratory quotient of the oxidation of food substance (2mks)

c. Identify the food substances. (1mk)

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18. Explain why pepsin in stomach of man is secreted in inactive form. (1mk)

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b. Which gland secrets pepsinogen? (1mk)

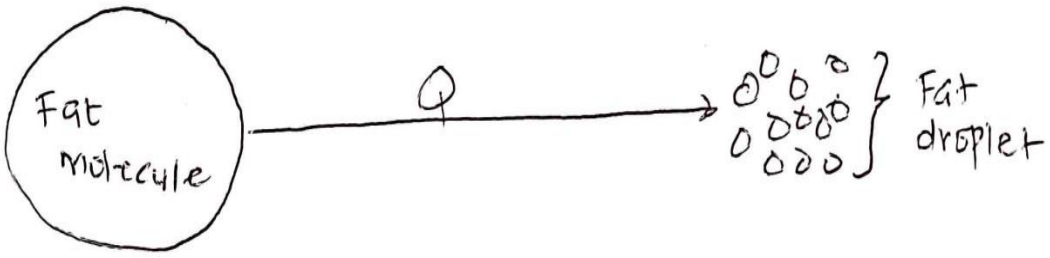
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c. The diagram below illustrated a physiological process that occurs in the alimentary canal of man.

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I. Name the process Q above. (1mk)

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II. Explain the biological significance of the above process. (1mk)

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III. Name the substance that helps the process named in (i) above. (1mk)

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19. Besides venation, state two other external characteristics of leaves that can be used to classify plants. (2mks)

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NAME: …….....

ADM:……CLASS:……..SCH…….

DATE: ……..

MID-TERM 1 SERIES 1 EXAMS

FORM 3 TERM 1

BUSINESS STUDIES

TIME: 2 HOURS

INSRTUCTIONS TO CANDIDATES:

.Attempt all the questions in section A and any two in section B

SECTION A (Attempt all questions in this section)

1. State 4 reasons why people engage in business (4mks)

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2. List the four types of partnerships (4mks)

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3. State 4 characteristics of basic wants (4mks)

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4. Outline 4 differences between free samples and gifts (4mks)

Free Samples	Gifts

5. Nakuru wholesalers owned a motor vehicle valued at Kshs. 2,000,000 which they comprehensively insured for Kshs. 1,600,000. The vehicle was involved in an accident and was written off. Determine the amount

of money Nakuru wholesalers should expect to get from their insurer (4mks)

6. Classify each of the following production activities as either primary or tertiary (5mks)

Activity	Level of production
Digging clay soil	_____
Construction of a bridge	_____
Selling of a shop	_____
Growing vegetables	_____
Transportation of medicine	_____

7. State any five sources of business ideas (5mks)

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8. List 4 reasons why most firms still prefer closed office layout to open office layout (4mks)

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9. Outline 4 unethical practices that are associated with product promotion (4mks)

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10. State 4 features of supermarkets (4mks)

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11. List any four clauses of memorandum of association for joint stock companies (4mks)

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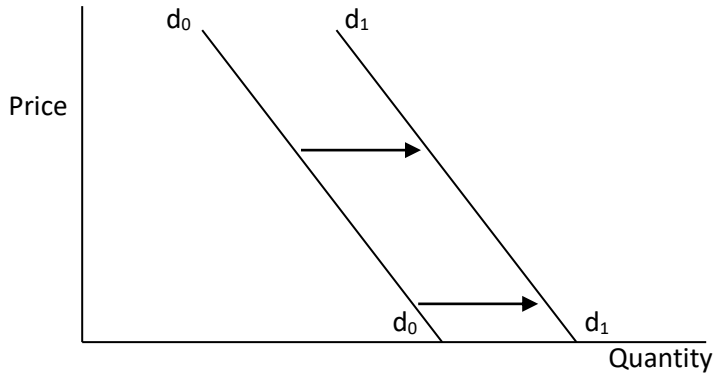
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12. The diagram below shows a shift in demand curve from d0d0 to d1d1.



Identify four factors that have made the demand curve to shift from d_0d_0 to d_1d_1 (4MKS)

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<u>SECTION B 20 MARKS</u> (Attempt any 2 questions in this section)

13. Outline five factors that may limit the use of containers as a method of transporting goods in a developing country. (10 marks)
14. Explain five essential qualities of a good warehouse (10mks)
15. Describe the procedures that should be followed when taking an insurance policy. (10mks)
20. Explain five factors considered by the insurer when determining premiums to be charged on a policy(10mks) **END**

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Name.....

Adm..... Class.....Sch……..

MID-TERM 1 SERIES 1 EXAMS

FORM 3 TERM 1

CHEMISTRY FORM III

1. Differentiate between the following terms as used in chemistry.

a. Temporary change and physical change. (1mk)

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b. Atomic number and mass number. (1mk)

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c. Ionization energy and electron affinity. (2mks)

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2. Is air a mixture or a compound? Explain. (2mks)

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3. Oxygen can be prepared from the decomposition of hydrogen peroxide in the presence of a catalyst.

a. Name the catalyst used. (1mk)

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b. Write an equation for the formation of oxygen gas. (1mk)

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c. State the simple test for oxygen gas. (1mk)

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4. The apparatus below were used to determine the volume of oxygen in air. About 200cm^3 of air was passed repeatedly from syringe **A** to syringe **B** over heated copper turnings as shown in the diagram. After sometime, the volume of air in the syringe **A** was 160cm^3 and syringe **B** 0cm^3.

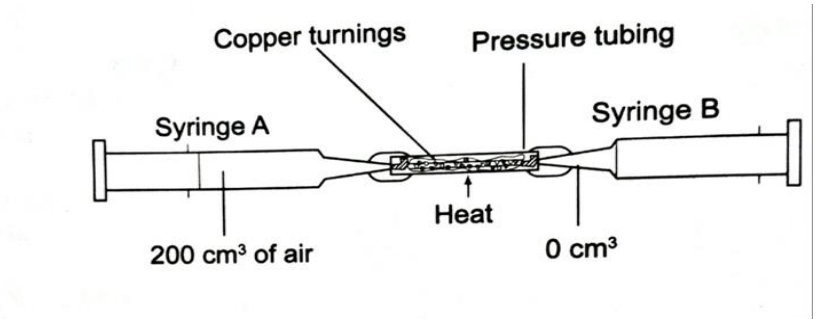
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a. Write a chemical equation for the reaction that took place in the combustion tube. (1mk)

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b. Calculate the percentage of oxygen in the initial sample of air. (3mks)



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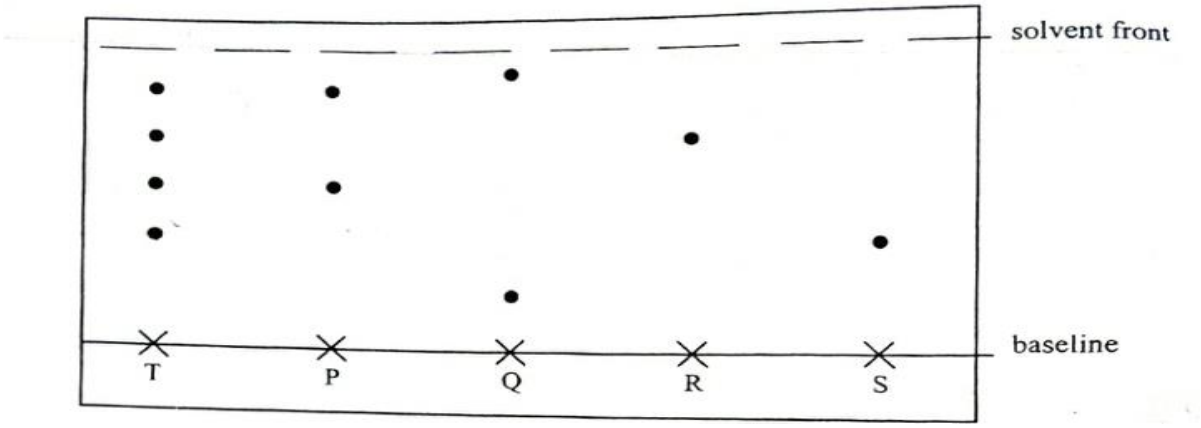
c. State two possible sources of errors in the experiment. (2mks)

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5. An experiment was carried out to determine the presence of substance **P**, **Q, R** and mixture **T**. The results obtained are shown in the figure below.



a. Name the method of separation illustrated above. (1mk

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b. Select :

I. One substance which contains a component **not** present in **T**. (1mk)

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II. A substance which is least soluble in the solvent used. (1mk)

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6. Give the valencies of the **cation** and **anion** in each of the following compounds:

a) Zinc sulphate (1mk)

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b) Magnesium carbonate (1mk)

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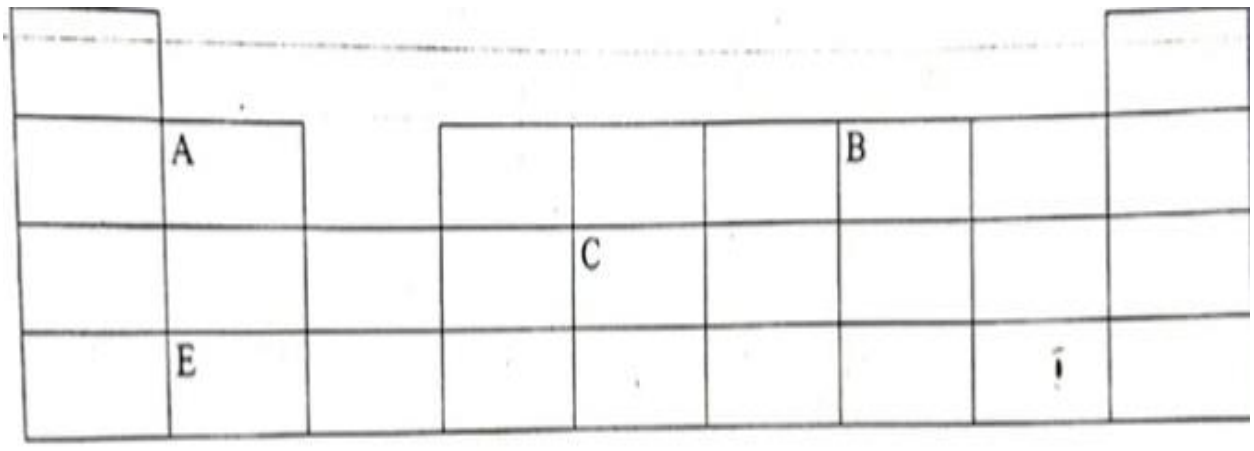
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c) Aluminum nitrate (1mk)

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7. The diagram below represents a grid that is part of the periodic table. Study it and answer the questions that follow. The letters are not the actual symbols of the elements.



a) Write the electron arrangement of element **C**. (1mk)

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b) On the grid provided, show with a tick (✓) the position of the element **D** whose atomic number is 18 (1mk)

c) Element **E** is more reactive than **A**. Explain. (1mk)

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d) State any two uses of element **D**.(2mks)

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e) Write a balanced chemical equation for the reaction of element **A** and element **B**. (1mk)

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f) Use dot (•) and cross (**X**) diagram draw the structure of the compound formed between the reaction of element **A** and element **B.** (2mks)

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8. Explain the following observations :

a. The melting point of sodium is higher than that of potassium (2mks)

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b. Sodium chloride solution conducts electric current while sugar does not (2mks)

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9. Define the term salt (1mk)

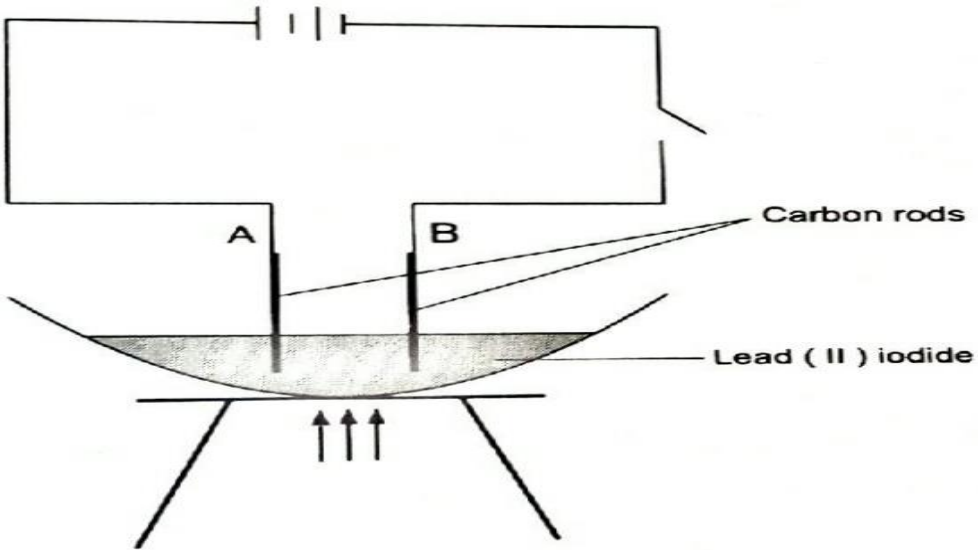
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a. Write an ionic equation between magnesium sulphate and lead (ll) nitrate solution. (2mks)

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b. Describe an experiment on how you can use the above **(a)** reactants to prepare a sample of lead (ll) sulphate powder. (4mks)



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10. The set up below was used to investigate the effect of electric current on the binary electrolyte (molten lead (ll) iodide)

a. What is a binary electrolyte? Give another example (2 mks)

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b. Identify the cathode and anode. Explain (2mks)

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c. State what is observed at the:

I. cathode (1mk)

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II. Anode (1mk)

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d. Write the half equations for the reactions at the :

Anode (1mk)

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Cathode (1mk)

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e. State any two applications of the process investigated above. (2mks)

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11.Define the term allotropy

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12.Name two main allotropes of carbon. (2mks)

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13.Give any three uses of carbon (3mks)

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14. A student at Victory Boy's High School wanted to prepare dry carbon (IV)oxide.

a. Identify and correct appropriately one mistake in the set up. (1mk+1mk)

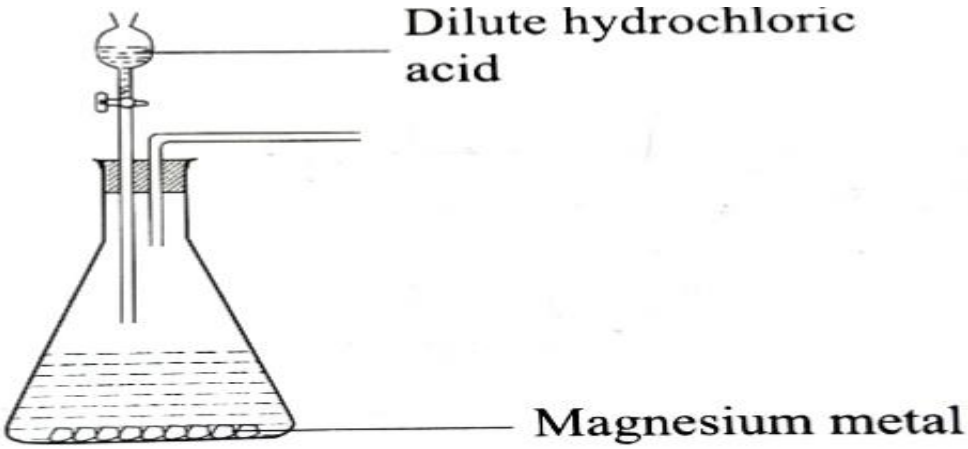
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b. Complete the set up to show how dry carbon (IV) oxide gas may be prepared and collected. (3mks)

c. Write a balance chemical equation for the reaction that occurred in the conical flask for the preparation of carbon (IV) oxide. (1mk)



d. Describe the chemical test of carbon (IV) oxide gas. (2mks)

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e. Give two uses of carbon (IV) oxide (2mks)

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15. What is the charge and oxidation number of the following ions.

a. **Copper (l) ion.**

Charge **.....** (1mk)

Oxidation number **.....** (1mk)

b. **Lead (ll) ion**

Charge **…….....** (1mk)

Oxidation number **.....** (1mk)

c. **Sulphide ion.**

Charge **.....** (1mk)

Oxidation number **.....** (1mk)

16. Element K (not actual symbol of element) has isotopes with relative abundances as shown below.

Isotope	Abundance %
$^{10}_{5}K$	18.69
$^{11}_{5}K$	81.28

Calculate the relative atomic mass of element K (3mks)

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MID-TERM 1 SERIES 1 EXAMS

FORM 3 TERM 1 CRE

NAME……..

ADM NO:……..CLASS……..SCH…….

1.Identify six literally forms used in writing the bibles. (6marks)

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2. Outline the differences in the two accounts of creation in genesis 1 and 2. (8marks)

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3. Name three historical books in the Old Testament. (3marks)

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4. Describe the incident when Abraham was willing to sacrifice his son Isaac. (Genesis 22:1-19) (8marks)

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5. How did the Israelites worship God when they were in the wilderness? (6marks)

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6. How do Christians show their respect to God? (6marks)

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7. What life skills do Christians need to use in order to fight corruption in Kenya today? (5marks)

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8. Identify moral values taught to the youths during initiation to adulthood in traditional African communities. (5marks)

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9. Identify the reasons that made Judas Iscariot betray Jesus. (5marks)

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10. Narrate Jesus' baptism by John the Baptist in the river Jordan in Luke 3:21-22 (5marks)

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Name: ……..

Adm: …… Signature: …… Date …….

Class …… Sch …….

JOINT EVALUATION

ENGLISH PAPER

MID-TERM 1 SERIES 1 EXAMS

FORM 3 TERM 1

TIME: 2 HOURS

Instructions to Students

(1) Write your name, admission number in the spaces provided.

(2) Sign and write the date of the examination in the space provided above.

(3) Answer all questions provided in this question paper.

(4) All your answers must be written in the spaces provided in this question paper.

(5) Check the question paper to ascertain that all pages are printed as indicated and that no questions are missing.

FUNCIONAL WRITING. 20 MARKS

Imagine you are the patron of the music club in your school. Write a letter, through your principal, to the secretary of the county music board to enquire about this year's categories so as to enable you start preparations for the annual festival.

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CLOZE TEST. 10 MARKS.

Fill in the following passage with the most appropriate word.

"Help! Help! It's a gang fight.

Shoppers at Marina Center in Singapore 1…….cries coming from the field nearby. A girl screamed, loudly and very shrilly. The fright in her 2……. turned Daryl's blood cold. 3……. a split second, time seemed to be frozen as the horror 4……. the situation penetrated every shoppers' brain. Then, all of a sudden, everybody 5…….…. running towards the field. It seemed as if everyone had gone mad! Daryl ran 6 ……..…. with them, eager to see part of the action.

When he 7…… …… the field, the fight was over. All he could 8 …….. was a huge crowd huddled in the middle of the field. Daryl pushed his 9……..…… through the crowd and stared.
10…… on the ground was a teenager.

READING COMPREHENSION. 15 MARKS

Read the following story and then answer questions that follow.

In the beginning, the Maasai did not have any cattle. One day God called Maasinta, who was the first Maasai and said to him: "I want you to make a large enclosure, and when you have done so, come back and inform me." Maasinta went and did as he was instructed, and came back to report what he had done. Next God said to him: "Tomorrow, very early in the morning, I want you to go and stand against the

outside wall of the house for I will give you something called cattle. But when you see or hear anything do not be surprised. Keep very silent."

Very early in the morning, Maasinta went to wait for what was to be given him. He soon heard the sound of thunder and God released a long leather thong from heaven to earth. Cattle descended down this thong into the enclosure. The surface of the earth shook so vigorously that his house almost fell over. Maasinta was gripped with fear, but did not make any move or sound. While the cattle were still descending, the Dorobo, who was a house-mate of Maasinta, woke up from his sleep. He went outside and on seeing the countless cattle coming down the strap, he was so surprised that he said: "Ayieyieyie!", an exclamation of utter shock. On hearing this, God took back the thong and the cattle stopped descending. God then said to Maasinta, thinking he was the one who had spoken: "Is it that these cattle are enough for you? I will never again do this to you, so you had better love these cattle in the same way I love you." That is why the Maasai love cattle very much.

How about the Dorobo? Maasinta was very upset with him for having cut God's thong. He cursed him thus: "Dorobo, are you the one who cut God's thong? May you remain as poor as you have always been. You and your offspring will forever remain my servants. Let it be that you will live off animals in the wild. May the milk of my cattle be poison if you ever taste it." This is why up to this day the Dorobo still live in the forest and they are never given milk.

(a) Classify this oral narrative. Why do you classify it as so? (2marks)

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(b) Why did God instruct Maasinta to make a large enclosure? (2marks)

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(c) Discuss the main character trait of Maasinta as brought out in the story. (3marks)

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(d) Explain the lesson that you learn from the passage. (2marks)

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(e) Explain **one** <u>economic</u> activity of the community in which Maasinta belong. (2marks)

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(f) On hearing this, God took back the thong and the cattle stopped descending.

Rewrite beginning with: God… (1mark)

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(g) In your own words, explain why the Dorobo lives in the forest. (2marks)

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(h) Which narrative is usually confused with the above narrative? (1 mark)

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ORAL SKILLS. 15 MARKS

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

He clasps the crag with crooked hands:
Close to the sun in lonely hands,
Rung with the azure world, he stands,

The wrinkled sea beneath crawls:
He watches from his mountain walls,
And like a thunder belt he falls.

Questions

i. Identify two sound patterns employed in the poem. (2marks)

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ii. What has the poet achieved by use of the above? (1 mark)

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iii. Which words would you stress in the last line and why? (2marks)

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b) Underline the odd one out ***(3marks)***

Picked	wicked	packed	sacked
World	worker	wolf	worship
Think	this	thing	thistle

c) Give a word that has the following silent letter. ***(3 marks)***

i. G

ii. Z

iii. H

d) Imagine you are part of the audience that is listening to a speech. You look around and notice that some people are looking at their watches, a few are yawning and one or two are shifting in their seats.

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What would likely be the cause of such behavior? Give three reasons ***(3 marks)***

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GRAMMAR. 10 MARKS

1. ***Choose the correct alternative from those given in brackets to fill in the gaps. (2 marks)***
    a) Ojwang' spends…… his time acting. (many of/ much of)
    b) ……. students left school before time. (A great deal of/ a great number of)
2. ***Underline the adverbial phrases in the following sentences. (3 marks)***
    a) Ngala wanted to go to the farm.
    b) The frightened thief hid in the barn.
    c) We shall decide when we get there.

3. ***Use the verb below to construct two sentences, one as a transitive and the other intransitive. (2 marks)***
    eat

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Use the correct form of the words in brackets to fill in each blank. (3 marks)

a) She……. (have) very interesting ideas.

b) I think those……. (be) the most dreadful experiences they went through.

c) They……(do) not go to the beautiful mansion yesterday as expected.

NAME……

CLASS…….ADM……..SCH……

MID-TERM 1 SERIES 1 EXAMS

GEOGRAPHY FORM 3 TERM 1

DURATION: 2 HOURS

Instructions: Answer all the questions in the spaces provided.

1. (a) Give two dominant minerals in the outer core. (2 marks)

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(b) Explain three reasons why the interior of the earth is very hot. (6 marks)

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2. (a) Name three substances found in the atmosphere. (3 marks)

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(b)State three characteristics of the troposphere layer of the atmosphere. (3 marks)

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3. (a) What are metamorphic rocks? (2 marks)

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(b) Explain how rocks influence the following:

(i) Agriculture (2 marks)

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(ii) Water storage. (2 marks)

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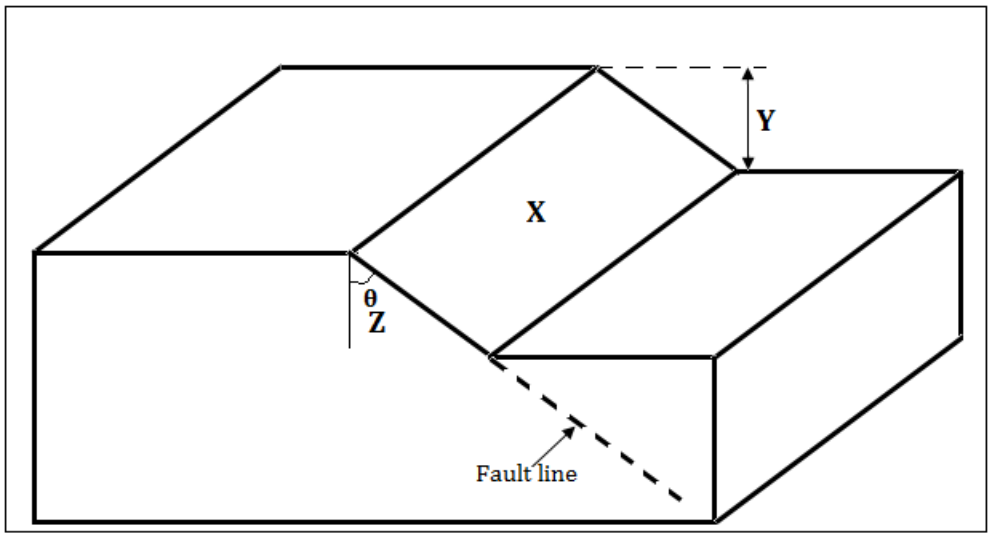
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4. The diagram below shows a type of a fault. Use it to answer the question (a)



(a) Name the parts marked X, Y and Z. (3 marks)

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(b) Give three features formed by vertical earth movements. (3 marks)

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(c)You are to carry out a field study on faulting along a section on the Great Rift Valley in Kenya.

(i) Give three advantages of using observation as a method of data collection.

(3 marks)

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(ii) State two follow up activities for the field study. (2 marks)

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5. (a) Describe how an explosion crater is formed. (5 marks)

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(b) Explain three causes of Vulcanicity. (6 marks)

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6. (a) Apart from savannah, give three other major types of natural vegetation in Kenya. (3 marks)

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(b) Describe the characteristics of savannah vegetation. (6 marks)

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7.(a) State two main reasons why forest reserves were created in Kenya.(2 marks)

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(c) Give three differences between softwood forests in Kenya with those in Canada. (6 marks)

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8.The table below shows major coffee producing countries in Africa in the year 2010.

COUNTRY	PRODUCTION IN MILLION BAGS
Ivory Coast	**2.20**
Kenya	**0.85**
Ethiopia	**7.45**
Tanzania	**0.92**
Uganda	**3.10**

(a) Calculate the percentage of the lowest coffee producer based on the information on the table. (2 marks)

(b) Using a radius of 5cm, draw a pie chart to present the information in the table. (9 marks)

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311: HISTORY AND GOVERNMENT

MID-TERM 1 SERIES 1 EXAMS

FORM THREE

FORM 3 TERM 1 2HRS

Instructions: Answer All Questions

NAME: ……..……..

ADM……..... CLASS ……. SCH…….

SECTION A (20 MARKS)

1. What is oral tradition as a source of history (1mk)

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2. State two shortcomings of oral traditions as a source of history (2mks)

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3. State three characteristics of homo habilis (3mks)

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4. Mention three hunting methods used during the old stone age (3mks)

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5. How did the discovery of the fire change man's way of life? (2mks)

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6. State two effects of food shortage in Africa (2mks)

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7. State two subgroups of the Kalenjin (2mks)

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8. Give two ways through which the Akamba interacted with the Agikuyu in the pre-colonial period (2mks)

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9. Name two types of trade (2mks)

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10.Give two examples of regional trade (2mks)

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11.State three functions of the Tuaregs during the Trans Saharan Trade. (3mks)

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SECTION B (30 MARKS)

12.a) State three reasons for decline of the Trans Saharan trade (3mks)

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b) Discuss six impacts of road transport (12mks)

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13.a) State three uses of gold (3mks)

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b) Explain six reasons why Britain was the first country to be industrialized. 12mks

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SECTION C (15 MARKS)

14.a) State three problems facing Nairobi (3mks)

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b) Describe the economic organization of the Shona (6mks)

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15.a) Give three advantages of written constitution (3mks)

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b) State three aspects of democracy (3mks)

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MID-TERM 1 SERIES 1 EXAMS

FORM 3 TERM 1

KIDATO CHA TATU

JINA……..

KIDATO……NAMBARI……..SHULE……..

INSHA (AL.20)

Mwandikie chifu wa sehemu unayotoka barua ukimjulisha juu ya mzazi katika kijiji chako anayewatesa na kuwanyima haki watoto wake.

MATUMIZI YA LUGHA (AL.30)

1.Taja irabu mbili za kati. (AL.2)

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2. Taja konsonanti moja ya koromeo. (AL.1)

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3.Eleza sifa tatu za kamusi .(al.3)

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4.Taja aina mbili za viambishi(Al.2)

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5.Eleza maana ya mofimu.(al.2)

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6.Taja matumizi mawili ya alama za italiki.(al.1)

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7.Eleza maana ya kielezi. (al.2)

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8.Tofoutisha maneno yafuatayo.(al.2)

(i) Dhamini

(ii) Thamini

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9. Tumia kiulizi kifaacho kukamilisha maswali yafuatayo.(al.3)

……wanitaniaa hivyo?

……..ulienda kumwona?

…….Koko amewasilli?

10. Tunga sentensi zinazokuwa na miundo ifuatayo. (al.3)

(i) N+T+N+E

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(ii) N+T

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(iii) N+V+T

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11. Andika ukubwa wa .(al.2)

(i) Mtoto

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(ii)Kikapu

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12. Eleza maana ya viwakilishi. (al.2)

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13. Kamilisha sentensi zifuatazo Kwa kutumia kirejeshi amba- (al.3)

Tarishi……..anayekuja ni mchezaji hodari

Viazi…… vimeliwa vilikuwa vimeiva.

Nyufa ……. Zilizibwa jana zimebomoka.

14. Tunga sentensi ukitumia vitenzi hivi katika hali ya kutendwa.(al.2)

(i) Vunja

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(ii) Funga

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TAMTHILIA YA KIGOGO AL 20

1. Fafanua ufaafu wa anwani kigogo. (al.10)

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2. …..Ni hilo embe lako,linanuka fee!
   a) Weka dondoo hili katika mktadha wake. (al.4)

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b) Taja tamathali ya usemi iliyotumika katika dondoo hili. (al.1)

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c) Taja sifa za msemewa. (al.5)

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MATHEMATICS FORM 3

MID-TERM 1 SERIES 1 EXAMS

TIME 2 ½ HRS

NAME …….....

ADM NO..... SCH…….

Instructions

- This paper has two sections; section A and section B
- Attempt all the questions in this paper
- Use of calculators and KNEC mathematical tables may be used except where stated otherwise.

1. Using logarithms tables only, evaluate. (4 Marks)

$$\sqrt[3]{\frac{849.6\ x\ 2.41}{3941}}$$

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2. Solve the equation (3 Mks)

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

3. A tourist arrived in Kenya with sterling pound (€) 4680 all of which he exchanged into Kenyan shillings. He spent ksh. 52,352 while in Kenya and converted the rest of the money into US dollars. Calculate the amount he received in US dollars. The exchange rates were as follows.
(3mks)

Currency	Buying	Selling
US$	65.20	69.10
Sterling pound €	123.40	131.80

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4. Solve for the value of x (3Mks)

   $2^{3x-2} \times 8^{x} = 4^{(x+1)}$

5. A line passes through the point whose coordinates are A(1,3) and B (-2,-1) find the equation of the line (3 Mrks)

6. Express $1.\dot{5}2\dot{3}$ as a fraction. (3mks)

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7. Use reciprocal and square tables to evaluate, to 4 significant figures, the expression. . (3Marks)

$\frac{1}{0.3654} - 4.151^2$

8. The diagonal of a square measures 44cm.Calculate the perimeter of the square. 3mrks

9. Calculate; [3mks]

$\frac{2.61 \times 21.83 \times 0.073}{61.72 \times 11.73}$

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10. Patrick spent 2/5 of his salary on food, 1/3 of the remainder on electricity and saved the rest.

(a). What fraction of his salary did he save? (2mrks).

(b). If he spent Sh. 1,200 on food, how much did he spend on electricity?(2Mks)

11. Solve the following simultaneous equation (3 Mks)

$5x+6y=28$

$3x+4y=18$

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12. Two similar containers have base areas of 750 cm^2 and 120cm^2 respectively. Calculate the volume of the larger container in liters given that the volume of smaller container is 400 cm^3 (3 Mrks).

13. If r=5, s=2, and t=3, find the value of; (3mks)

$$\frac{r^2+s^2-t}{t^3}$$

14. A farmer has three containers of capacity 12L, 15L and 21L, calculate the capacity of:

a) The smallest container which can be filled by each one of them an exact number of times (2 Mrks).

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(b). The largest container which can fill each one of them an exact number of time.(2 Mks)

15. Given that tan x = ¾, find Cos(90-x) (2 Mks).

16. The two arms of a pair of compass of dividers are spread so that the angle between them is 45^0.Find the area of the sector formed if the length of the arm is 8.4cm.Take $\pi = 22/7$.(3marks)

SECTION II (50 MARKS)

ANSWER ALL QUSTIONS

17. An amount of money was shared among five girls, Alice, Jane, Brenda, Mary and Ivy. Alice got $\frac{1}{8}$ of the total amount while Jane got $\frac{2}{5}$ of the remainder. The remaining amount was shared equally among Brenda, Mary and Ivy each getting ksh.490.

    a. How much did Jane get? (3mks)

    b. How much was shared among the three girls. (3mks)

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c. Alice, Jane and Ivy invested their money and earned a profit of ksh.3640. a half of the profit was left to maintain the business and the rest shared according to their investments. Calculate how much each got. (4mks)

18. A surveyor recorded the measurements of a field book using xy=400m as the base line as shown below

	Y	
To E 200	320	
	210	150 To D
To F 205	170	150 To C
	50	225 To B
	X	

a) Use a scale of 1 cm to represent 50 m to draw the map of the field. (5 Mks)

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b) Find the area of the field in hectares (5 Mks)

19.(a). On the grid provided, draw the square whose vertices are A(6,-2) B(7,-2) C(7,-1) and D(6,-1). (2mrks)

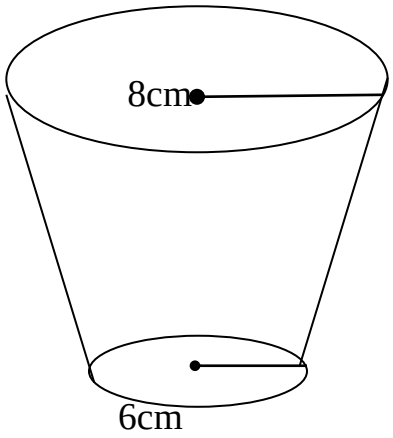
b. 0n the same grid draw;

(i). A'B'C'D', the image of ABCD under an enlargement scale factor 3centre (9,-4). (4mrks)

(ii). A"B"C"D", the image of A'B'C'D' under a rotation of $+90^0$ about (0,0). (4 mrks)

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20. A pail is in the shape of a container frustrum with base radius 6cm and top radius 8cm. The slant height of the pail is 30cm as shown below. The pail is full of water.



a. Calculate the volume of water in the pail. (6mks)

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b. All the water is poured into a cylindrical container of circular radius 7cm, if the cylinder has the height of 35cm, calculate the height of the cylinder above the water level, which is not in contact with water. (4mks)

21. The sides of a triangular plot of land are 170m, 190m and 210m, but the altitudes of the plot as well as the angles are not known. Find

a) The area of the plot in Hectares 5mks

b) The angles of the plot 5mks

Name:…….

Class:……Adm No:…….Sch…….

PHYSICS

MID-TERM 1 SERIES 1 EXAMS

FORM 3 TERM 1

TIME:

INSTRUCTIONS.

Answer all the questions in the spaces provided.

1. Define the term fluid. (1mk)

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2. Distinguish between streamline flow and turbulent flow. (2mks)

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3. In deriving the equation of continuity, there are some assumption made.
   State the three assumption that the fluid must have. (3mks)

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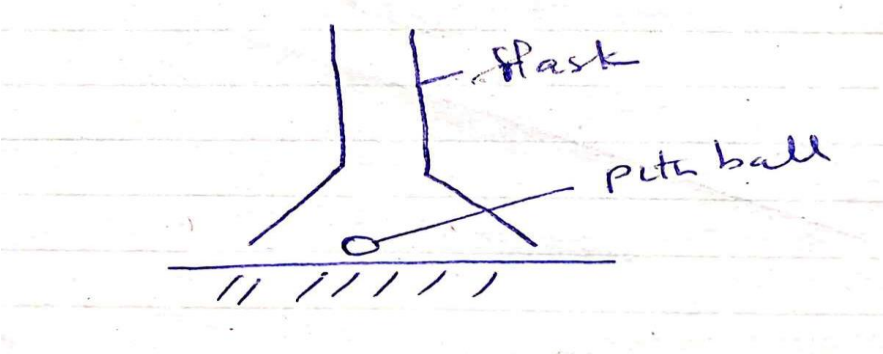
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4. The figure below shows a pithball placed in a flask. When a jet of air is blown over the month of the flask as shown, the pithball is observed to rise from the bottom. (2mks)



5. Water with negligible viscosity flows steadily through a horizontal pipe of various cross-section area. At a point A of cross-section area $10cm^2$ the velocity is 0.2m/s. calculate:
   a) The velocity at a point B, of cross-section area $2.5cm^2$. (3mks)

   b) State two hazards of Bernoullis effect. (2mks)

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6. State and explain three factors affecting velocity of sound in air.(3mks)

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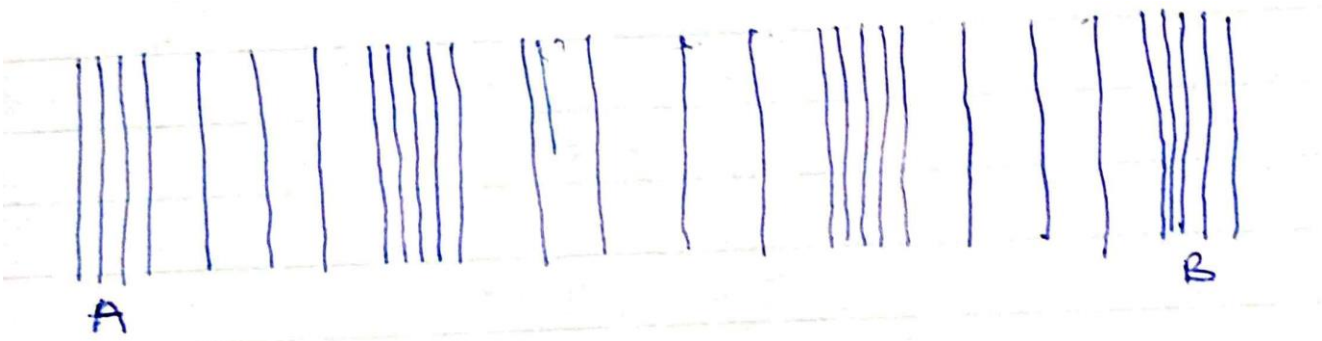
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7. The diagram below shows sound waves passing through air. Study it and answer the questions that follow.



Label the following:

i. Compression (1mk)

ii. Rarefaction (1mk)

iii. Wavelength (1mk)

8. Define moment of a force. (2mks)

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b. State two factors affecting moment of force. (2mks)

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c. A uniform metre rule pivoted at its centre is balanced by a force of 4.8N at 20cm mark and some other two forces, F and 2.0N on the 66cm and 90cm marks respectively. Calculate the force F. (2mks)

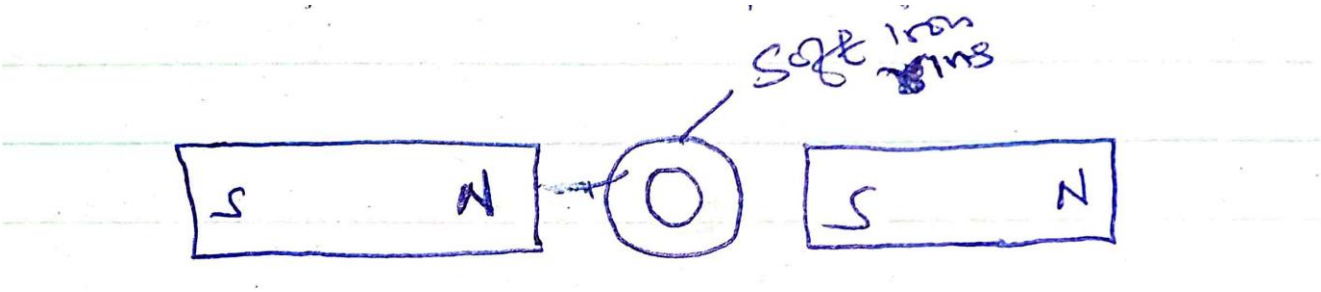
9. Define magnetic field. (1mk)

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b. Draw the field pattern in following. (2mks)



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c. State three uses of magnets. (3mks)

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10. The air pressure at the base of a mountain is 75.0cm of mercury while at the top it is 60.0cm of mercury. Given that the average density of air is 1.25kg/m^3 and the density of mercury is 13600kg/m^3, calculate the height of the mountain. (3mks)

11.a. Differentiate between a transverse wave and a longitudinal wave.(2mks)

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b. The figure below shows the displacement time graph for a wave.



With reference to this wave motion, determine the:

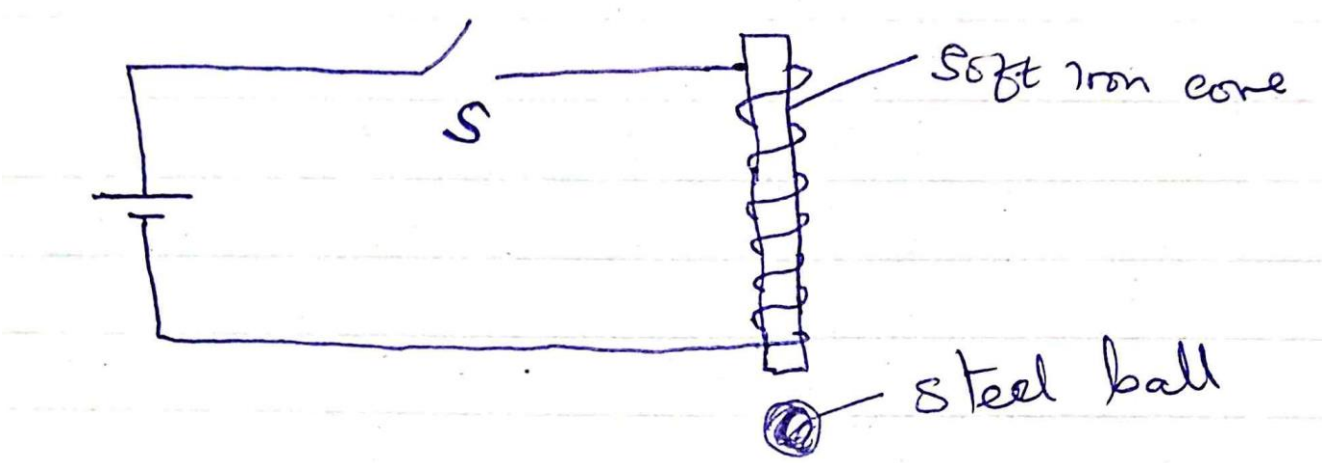
i. Period (1mk)

ii. Frequency (2mks)

iii. If the wave travel at a speed of 340m/s, calculate the wavelength. (3mks)

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12. A small electromagnet used for lifting and then releasing a small steel ball is made in the laboratory as shown below;



a) Explain why soft iron is a better material than steel to use for the core. (1mk)

……

……

……

……

b) In order to lift a slightly larger ball, it is necessary to make a stronger electromagnet. State two ways and explain the electromagnet could be made more powerful. (4mks)

……

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13. In an experiment to estimate the size of a molecule of olive oil, a drop oil of volume $0.12mm^3$ was placed on a clean water surface. The oil spread into a patch of areas $6.0x10^4mm^2$. Estimate the size of a molecule of olive oil.(3mks)

b. Give two assumption made when calculating the thickness of the oil drop. (2mks)

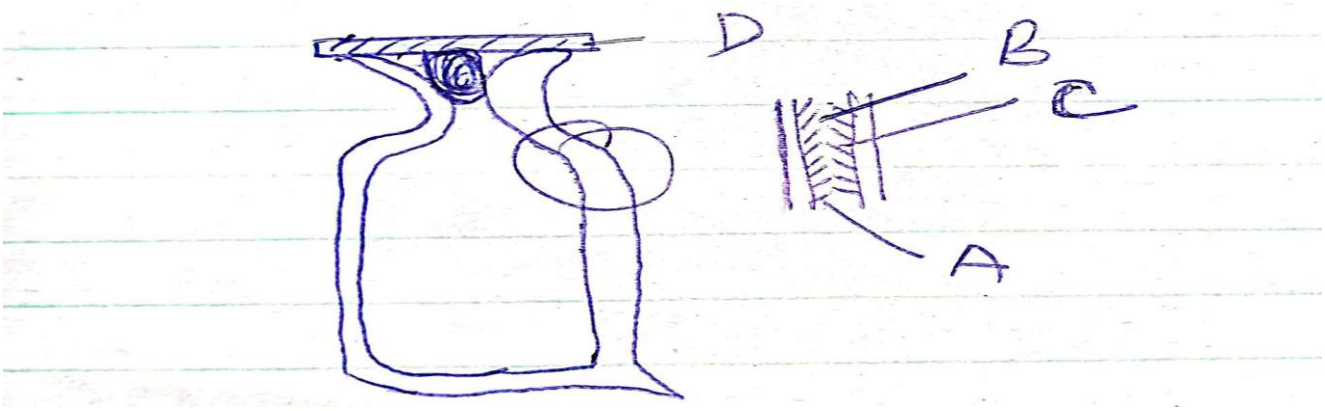
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14. The diagram below shows a vacuum flask with an enlarged view of the part in the circle.



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a) What materials are items A and C made of? (1mk)

……

……

b) What types of heat energy are reduced by or prevented by the parts marked B,C and D. (3mks)

c) Explain how A is effective in reducing heat transfer. (1mk)

……

……

……

15. An object is placed 10cm in front of a:

a) Convex mirror of a focal length 20cm. determine the position of the image.(2mks)

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b) Nature of the image. (1mk)

……

……

c) Define the following terms as used in curved surface. (2mks)

Pole:

……

……

……

Radius of curvature:

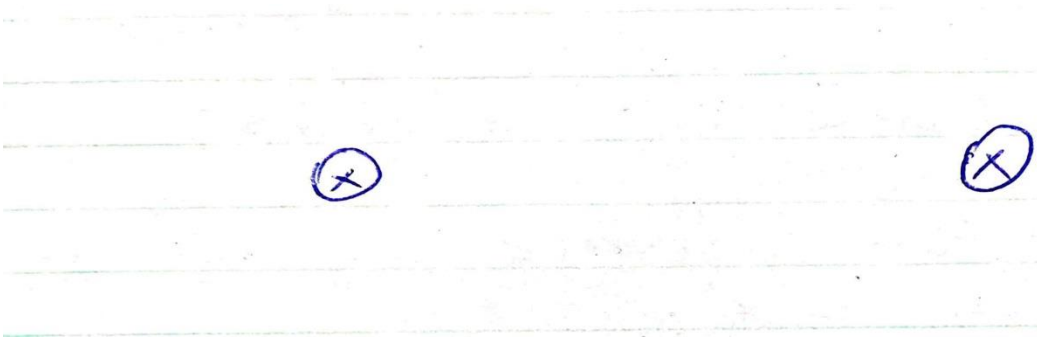
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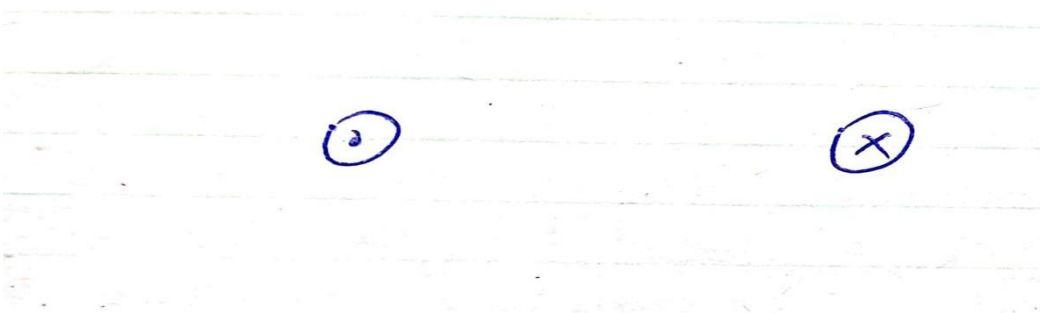
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16. Sketch the field in each of the following. (4mks)

I. Current in the same direction.



II. Current in opposite direction.



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