FORM 3 END-TERM 1 SERIES 1 EXAMS

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Other available resources are;

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

Note:Exam questions are always free of charge

Marking scheme are not free

Setbooks summarised notes,questions and vedios are available.Contact Mdm.Mariam-0746711892



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FORM 3 END TERM 1 SERIES 1 EXAMS

NAME: ……

ADM NO: ……..... DATE……..

SCHOOL……..

AGRICULTURE FORM THREE PP1

END OF TERM ONE

TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES:

- *Answer **ALL** the questions*
- *Answers should be written in the spaces provided*

SECTION A (30 marks)

1. Mention **four** factors that determine the depth of planting in crop production. (2mks)

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2. State **four** benefits of a good soil structure. (2mks)

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3. State **four** factors to be considered in sitting nursery bed.(2mks)

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4. Give **four** advantages of shifting cultivation. (2mks)

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5. Name **four** factors influencing soil formation. (2mks)

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6. Define the term **drainage**. (1mk)

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7.Give any **three** tertiary operations carried out during land preparation. (1 ½mks)

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8. State **three** forms in which soil water exists. (1 ½ mks)

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9. In farming under what conditions is opportunity cost zero.(1mk)

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10. What are the deficiency symptoms of sulphur? (1½ mks)

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11. Name the vegetative materials used in the establishment of the following crops.

Bananas …….. **(½ mk)**

Pineapples ……**(½ mk)**

Sisal …… **(½ mk)**

12.State **four** advantages for planting potatoes in a ridged seedbed.(2mks)

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13. State **four** reasons for pruning. (2mks)

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14. What is organic farming? (1mk)

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15. Give reasons for carrying each of the following practices in tomatoes nursery. (2mks)

i) Pricking out

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ii) Hardening off

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iii) State **two** problems that may be brought by a hard pan.(1mk)

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15. Give **four** advantages of tissue culture. (2 marks)

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16. State **four** properties of soil influenced by its texture. (2 marks)

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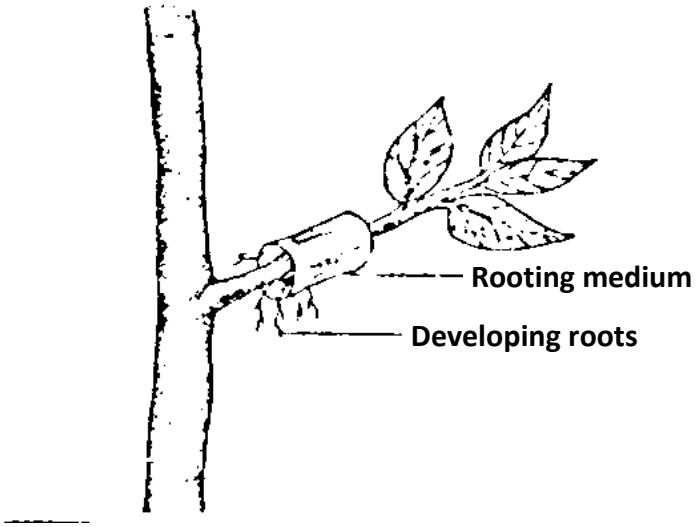
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SECTION B (20 MARKS)

Answer ALL questions from this section in the spaces provided.

17. The diagram below shows a method of layering. Study it and answer the questions that follow.



a) Identify the method of layering illustrated above. (1mk)

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b) State **one** circumstance in which the method of layering indicated above is recommended. (1 mk)

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c) Maize requires 120kg/ha of phosphorus pentoxide (P_2O_5). How much of the compound fertilizer20:20:10 would be applied to 0.4 hectare of land to achieve this rate.(show your working). (2 marks)

d)Distinguish between straight fertilizers and compound fertilizers. (2 mrks)

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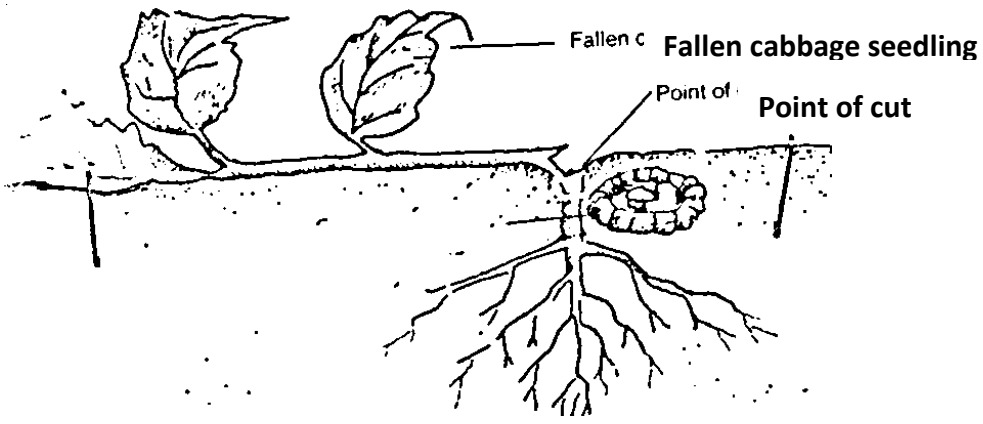
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18. The diagram below shows a cabbage seedling which has been attacked by a certain pest.



a) Identify the pest ..... (1 mark)

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b)State **three** methods of controlling the above pest (3 marks)

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c) State **four** methods of harvesting water on the farm. (4marks)

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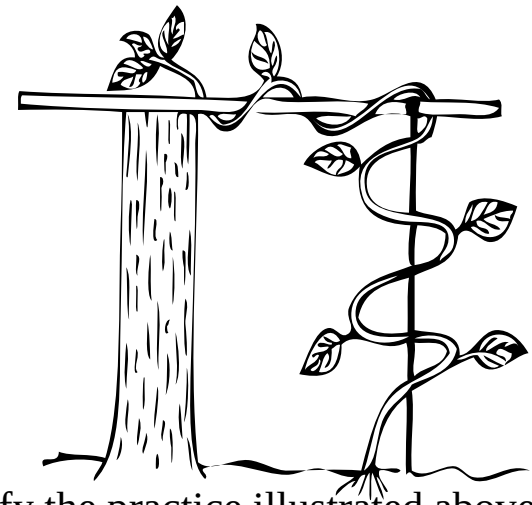
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19. The diagram below illustrates a field management practice carried out to a fruit crop



(a)i) Identify the practice illustrated above. (1mark)

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ii) Give **three** reasons for carrying out the practice illustrated in the above diagram. (3marks)

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(b) Give a reason why it is not advisable to use manure in carrot production. (1mark)

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SECTION C (40 MARKS)

Answer ***only two*** questions in this section in the spaces provided.

20. a) Describe the methods used in preparing materials in readiness for planting. (8 marks)

b) Explain the factors that may determine spacing of crop in the farm (8 marks)

c) Explain briefly the factors that influence timely planting. (4marks)

21 a) State and explain the uses of farm records to a farmer (10mks)

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b) Explain how the following land reforms are carried out

i) Land consolidation (5mks)

ii) Land adjudication and registration (5mks)

22. a)Describe the environmental conditions that may lead to low crop yield (5mks)

b) Explain the factors of cultural methods of soil and water conservation (10mks)

c) Give FIVE advantages of overhead irrigation (5mks)

23. a)Explain the factors of cultural methods of soil and water conservation (15mks)

b) Give FIVE advantages of overhead irrigation (5mks)

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FORM 3 END TERM 1 SERIES 1 EXAMS

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443/2

AGRICULTURE FORM THREE PP2

END OF TERM ONE

TIME: 2 HOURS

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INSTRUCTIONS TO CANDIDATES:

- *Answer **ALL** the questions*
- *Answers should be written in the spaces provided*

SECTION A (30MARKS)

1. Name **three** types of dairy goats reared in Kenya (1 ½)

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2. a). What is raddling in sheep management (1mk)

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b. Give **two** reasons for raddling in sheep management (1mk)

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3. Give **three** advantages of contemporary comparison method in selection of livestock ($1^{1}/_{2}$)

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4. Give **two** reasons for spreading a polythene paper (pvc) on the slab of a permanent farm building (2mks)

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5. Name three types of Fresh warm water fish reared in Kenya(1 ½ mks)

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6. a) Give **three** disadvantages of inbreeding in cattle production($1^1/_2$mks)

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b). Give **three** advantages of embryo transplant in cattle(1^1/2mks)

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7. Name the farm tools used for each of the following operations listed below.

a) Tightening barbed wire during fencing

…….(½ mark)

b) Smoothening of concrete floors

…….(½ mark)

c) Giving liquid drugs to livestock through the mouth

…….(½ mark)

d) Sharpening the teeth of across-cut saw

…….(½ mark)

8. List **four** factors considered when making a choice of building materials. (2 marks)

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9. State **two** reasons why calves should be housed singly .(1 mark)

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10. What is cropping in fish farming? (½ mark)

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11. State **three** methods of disbudding young calves. (1½marks)

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12. State **two** reasons why calves should be housed singly .
(1 mark)

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13. Name **one** intermediate hosts for each of the following.

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a) Tapeworm*(Taeniaspp)*.....**(½ mark)**

b) Liver fluke*(Fasciola spp)*.....**(½ mark)**

14. Name **four** disease predisposing factors outside an animal's body. (2 marks)

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15. State **four** factors that determine the amount of water a beef animal can take . (2 marks)

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16. State **four** structural requirements of a zero grazing unit. (2 marks)

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17. a) Name the tool used for shearing wool sheep. (½ marks)

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b) State **three** practices carried out during tupping season in sheep management. (1½ marks)

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18. State **three** functions of carbohydrates in livestock nutrition. (1½ marks)

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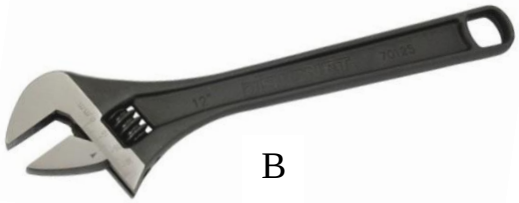
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SECTION B 20 MARKS

19. Below are illustrations of farm tools and equipment.

A





B



C

a) Identify the tool labelled A and C

A (1 mark)

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C (1 mark)

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b) State the advantage of tool B over tool C (1 mark)

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c) State two maintenance practices carried out on tool labelled B.(2 marks)

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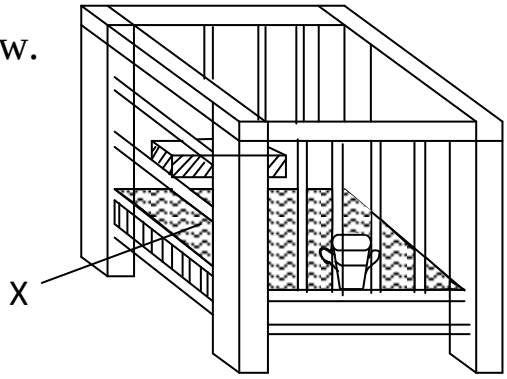
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20. Below is a farm structure. Study it carefully and answer the questions that follow.



a) Identify the farm structure above (1 mark)

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b) State the requirement of the part labelled X (1 mark)

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c) State **three** maintenance practices that should be carried on the structure. (3 marks)

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21. A dairy farmer prepared 1000kg of feed (20%DCP) from the following feedstuffs:Oats – 10% DCP , Simsim seedcake 60% DCP

Calculate the amount of each feedstuff used using Pearson's square method. (3marks)

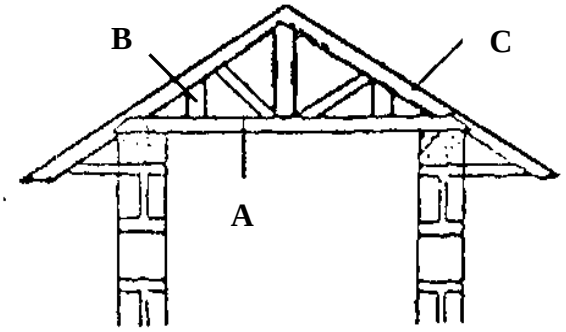
b) Classify the following feedstuffs as either roughage or concentrate.(2marks)

i) Bone meal

ii) Silage

22. Study the diagram below of a farm structure and answer the questions that follow.

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

A

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B

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C

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b) Name **two** chemical preservatives that can be used to treat the wooden part of the above structure against fungi and insect attack. (2marks)

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SECTION C 40 MARKS

Answer any two questions from this section in the spaces provided .

23. [a] Describe six signs of farrowing in a sow . [6mks.]

[b]Explain six benefits of the Kenya top bar hive . [6mks.]

[c]Explain eight factors considered when siting farm structures . [8mks.]

24. a) State and explain 5 reasons for keeping livestock. (10 marks)

b) Describe factors considered when selecting a gilt for breeding. (6 marks)

c) Name four systems of breeding used to improve livestock. (4 marks)

25. a) Describe ten general methods of disease control in livestock. (10marks)

b) Describe the advantages of fences. (10 marks)

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FORM 3 END TERM 1 SERIES 1 EXAMS

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BIOLOGY FORM THREE PP1

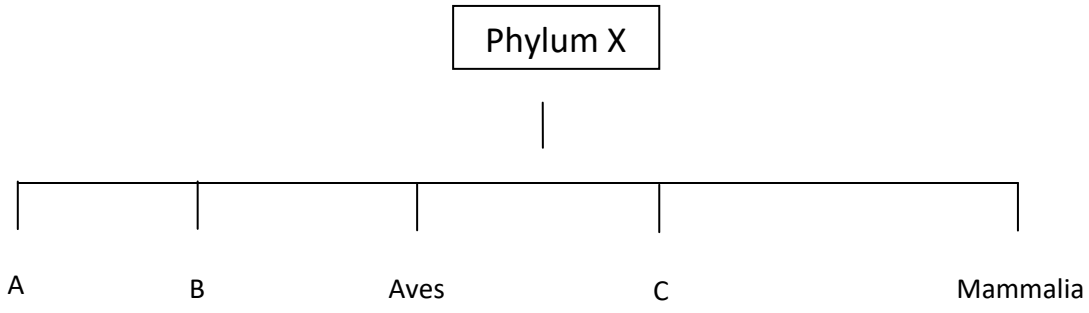
END OF TERM ONE

TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES:

- *Answer **ALL** the questions*
- *Answers should be written in the spaces provided*

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



a) What is the phylum X? (1mk)

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b) Name the classes A, B and C. (3mks)

A……

B……

C……

c) State **two** distinguishing characteristics of mammalian class. (2mks)

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2. Name the field of science that specializes in the study of members that belong to the class insect. (1mk)

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3. What are the functions of bile salts during the process of digestion? (2mks)

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4. State the importance of each of the following to the life of organisms.

   a) Respiration. (1mk)

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   b) Excretion. (1mk)

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5. What are the differences between blood in the pulmonary artery and that in the pulmonary vein? (2mks)

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6. Name **three** plant tissues that are involved in support. (3mks)

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7. State the causative agent and method of transmission of cholera. (2mks)

Causative agent.....

Mode of transmission .....

8. Name the products of light stage in photosynthesis. (3mks)

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9. What causes the following diseases?

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a) Diabetes mellitus. (1mk)

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b) Diabetes insipidus. (1mk)

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10. Name **two** benefits that a parasite derives from the host. (2mks)

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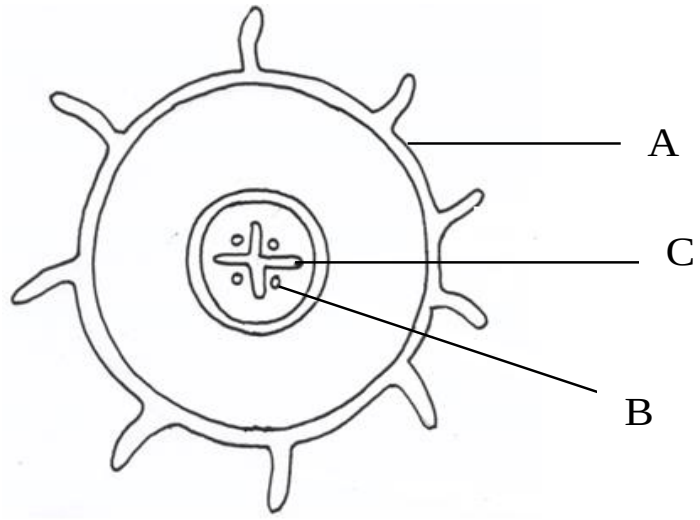
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11. The diagram below represents a cross section of a plant.



a) From which part of the plant was it obtained? (1mk)

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

A

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B

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c) State the function of part C. (1mk)

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12. (a) What is the role of fungi in an ecosystem? (1mk)

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(b) State four characteristics of fungi. (4mks)

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13. State the function of the following parts of a light microscope. (2mks)

a) Objective lens

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b) Diaphragm

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14. State **four** ways of controlling *schistomiasis*. (4mks)

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15. Distinguish between predation of and parasitism. (4mks)

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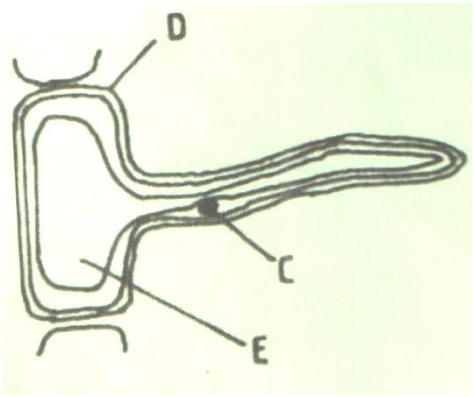
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16. The diagram below shows a specified plant cell.



a) Name the cell. **……(1mk)**

b) Name the parts labeled A, B, D and E. (4mks)

A……

B……

C……

c) State the function of the part labeled C. (1mk)

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17. State **three** factors that affect the rate of diffusion. (3mks)

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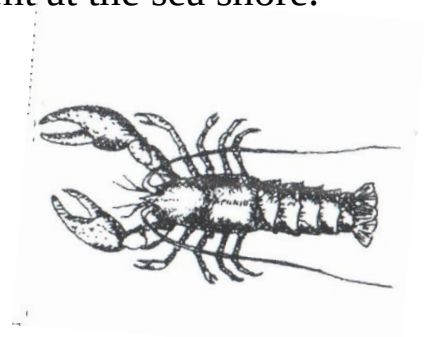
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18. The diagram below represents a certain organism collected by a student at the sea shore.



a) Name the class to which the organism belongs. (1mk)

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b) Give **three** reasons for your answer in (a) above. (3mks)

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19. (a) Name the causative agents of the following diseases in humans.

(2mks)

i) Typhoid.

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ii) Amoebic dysentery

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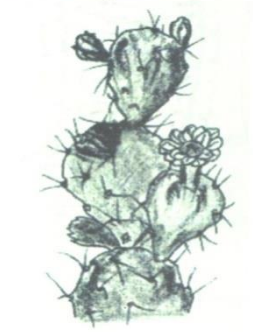
(b) Name the disease in human caused by *Plasmodium falciparum.*

(1mk)

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20. The diagram below represents a certain plant.



a) What is the likely habitat for the plant? (1mk)

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

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21. Describe the **three** characteristics of a population. (3mks)

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22. Other than using the quadrant, give two methods of estimating population of grass. (2mks)

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23. Name **three** processes that are responsible for loss of energy from one trophic level to the next. .(3mks)

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24. State **two** ways in which aerenchyma tissues in aquactic plants are adapted to their function (2mks)

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25. What is meant by the following terms?

a) Habitat: (1mk)

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b) Ecosystem. (1mk)

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c) Ecology. (1mk)

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26. *Ascaris lumbricoides* is an example of an endo-parasite.

a) The name Ascaris refers to: (1mk)

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b) State the habitat of the organism. (1mk)

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c) State **three** ways in which the organism is adapted to living in its habitat. (3mks)

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27. (a) Name the process through which free atmospheric nitrogen is converted into nitrates. (1mk)

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(b) Name the bacteria found in the root nodules of leguminous plants. (1mk)

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FORM 3 END TERM 1 SERIES 1 EXAMS

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BIOLOGY FORM THREE PP2

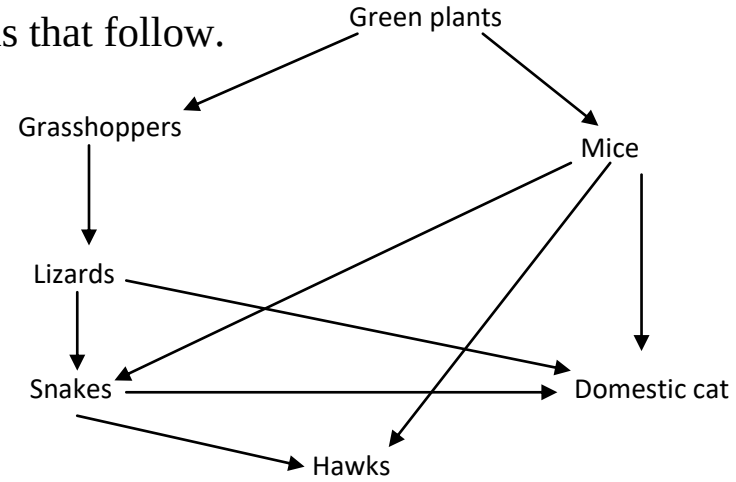
END OF TERM ONE TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES:

- *Answer **ALL** the questions*
- *Answers should be written in the spaces provided*

SECTION A: (40 MARKS)

1. The chart below represents a food web. Use it to answer the questions that follow.



a) Construct two food chains ending with tertiary consumer in each case. (2mks)

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b)Which organism has the largest variety of predators in the food web? (1mk)

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c) Name secondary consumers in the food web. (1mk)

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d) Suggest three ways in which the ecosystem would be affected if there was a prolonged drought. (3mks)

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2. To estimate the population size of crabs in a certain lagoon, traps were laid at random 400 crabs were caught, marked and released back into the lagoon. Four days later traps were laid again and 374 crabs were caught. Out of the 374 crabs, 80 were found to have been marked.

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a) Calculate the population size of crabs in the lagoon. (2mks)

b) State three assumptions that were made during the investigation. (3mks)

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c) What is the name given to this method of estimating the population size? (1mk)

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d) Other than the method named above, state any other two methods that are used to estimate population size. (2mks)

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3. (a) Classify the bean plant in to each of the following taxa. (3mks)

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Kingdom

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Division

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Class

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(b) Name the microscopic living threads that make up the body of a fungus. (1mk)

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c) State the structural differences between Gymnospermatophyta and Angiospermatophyta. (4mks)

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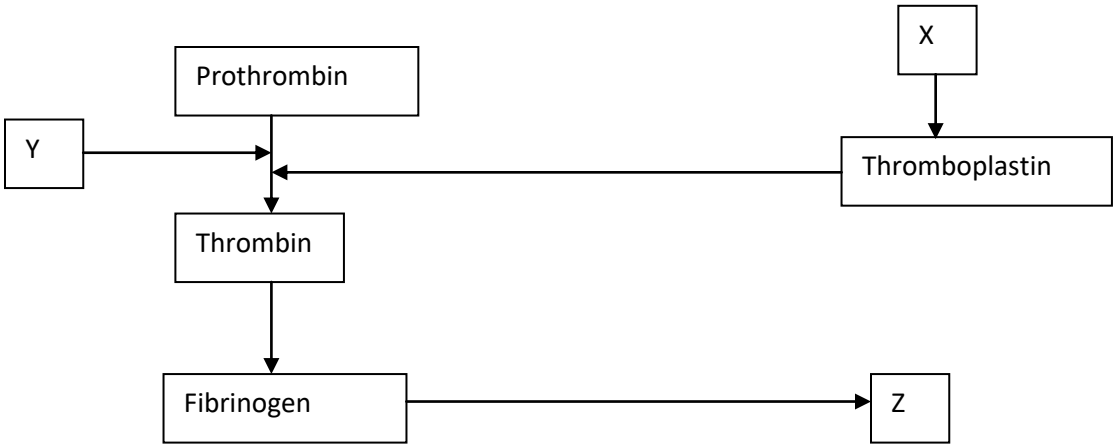
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4. The chart below is a summary of blood clotting mechanisms in man.



a) Name

i) The blood cells represented by X. (1mk)

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ii) Metal ion represented by Y. (1mk)

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b) Identify product Z and state its significance. (2mks)

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c) Name the process by which the human body naturally stops bleeding. (1mk)

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d) How can low blood volume be brought back to normal? (2mks)

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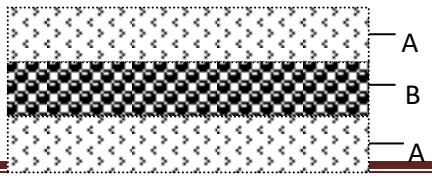
e) Give a reason why blood doesn't clot in unwounded blood vessels. (1mk)

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5. The diagram below represents the general appearance of a section of the cell membrane under an electron microscope.



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a) State the possible composition of layers A and B. (2mks)

A.....

B.....

b) What is the significance the structure A in the membrane? (2mks)

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c) State **two** properties of the cell membrane that make it efficient in its functions. (2mks)

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d) Give **two** reasons why an electron microscope is useful in the study of the cell structure. (2mks)

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Answer Question 6 (COMPULSORY) and either Question 7 or 8 in the spaces provided.

6. The data provided represents populations of a predator and its prey over a fifty years periods.

Time in years	Population in relative population of P (in thousands)	Numbers population of Q (in thousands)
5	24.5	17
10	30	20.5
15	33.5	26
20	33.5	30
25	31	33
30	27	32
35	25	30
40	29	27.5
45	32.5	28.0
50	34	28.5

a) (i) Using the same axes, draw graphs of the relative populations of P and Q against time. (7mks)

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(ii) With a reason identify the curve that represents the prey. (2mks)

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(iii) Accounts for the two populations between 25 and 32 years. (2mks)

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(iv) Which years were the two populations equal. (2mks)

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(v) Apart from predation, state three biotic factors that may have led to the decline of the prey population. (2mks)

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b) Describe the hazards of air population by sulphur (IV) oxide. (4mks)

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7. Explain how the mammalian heart is structurally adapted to its functions. (20mks)

8. (a) Give any two functions of leaves in plants.
(2mks)

(b) Explain how leaves of mesophytes are suited to their functions.
(18mks)

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FORM 3 END TERM 1 SERIES 1 EXAMS

NAME: ……

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SCHOOL……..

231/3

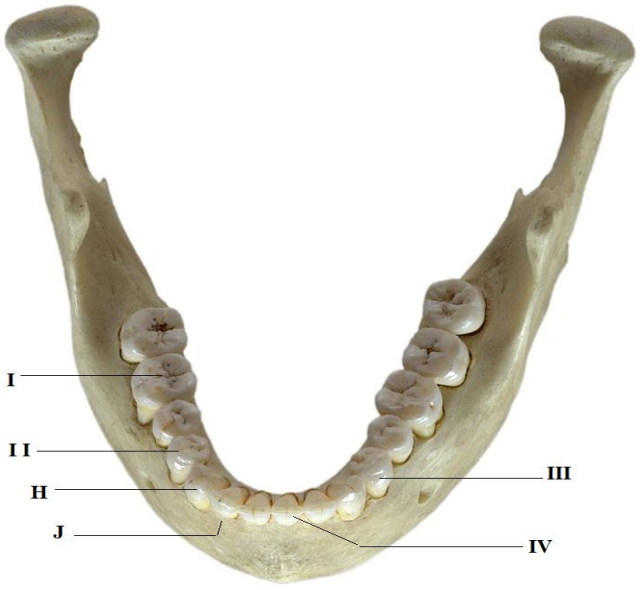
BIOLOGY FORM THREE

TIME: $1^{3}/_{4}$ HOURS

INSTRUCTIONS TO CANDIDATES:

- *Answer **ALL** the questions*
- *Answers should be written in the spaces provided*

1. Below is a photograph of an adult human jaw with teeth. Study the diagram and answer the questions that follow.



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a) State the mode of nutrition in man. (1mk)

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b) Name the type of teeth labeled I and III. (2mks)

I:……

III:……

c) Name the parts of teeth labeled H and J. (2mks)

H:……

J:……

d) Identify **one** distinguishing feature between teeth labeled II and IV. (1mk)

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e) State **one** function of tooth IV. (1mk)

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f) Write the dental formula from the jaw shown in the photograph. (1mk)

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g) Explain why tooth I would be more prone to dental carries than tooth III, (2mks)

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2. Use the hand lens provided to observe specimen K and answer the questions that follow.

a) (i) In the space below draw a fully labeled diagram of representative part of the specimen. (5mks)

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(ii) Calculate the magnification of your drawing. (2mks)

b) Identify:

(i) The Kingdom (1mk)

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(ii) The Division, to which the specimen belongs. (1mk)

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

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c) State the functions of any **two** parts labeled in your diagram. (2mks)

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d) What is the mode of reproduction in the specimen? (1mk)

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e) Explain the significance of colour observed in the specimen M. (2mks)

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3. You are provided with solutions labeled L_1, L2 and L_3. Note that L_3 is the same as L2 except that L_3 has been boiled.

Label three test- tubes A, B and C.

Into the test- tube labeled A add 1ml of solution L_1.

Into the test- tube labeled B add 1ml of L_1 and 1ml of L_2.

Into the test- tube labeled C add 1ml of L_1 and 1ml of L_3.

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a) Withdraw a drop from test – tube A and place it on a white tile. To the drop add one drop of iodine solution. Record your observation in the table below. (3 mks)

Test - tube	observation	conclusion
A		
B		

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C		

Repeat the procedure with contents in test – tubes B and C. Record your observations in the table.

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Place the three test –tubes labeled A, B and C into a water bath at 37^0C.

NB. Ensure that the temperature of the water bath does not fall below 35^0C or exceed 38^0C

b) After 30 minutes, test the contents of each of the test – tubes labeled A, B and C following the procedure in (a) above. Record your observations in the table below. (6 mks)

Test - tube	**observation**	**conclusion**
A		

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B		
C		

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c) Why was test – tube labeled A included in the experiment? (1mk)

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d) (i) suggest the identity of solution L_2 (1mk)

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(ii) Give a reason for your answer in (d) i above. (1 mk)

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e) Suggest a part of the alimentary canal in the body of a mammal where the process being investigated in the experiment would take place. (1mk)

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f) Account for the results at the end of the experiment in the test – tube labeled.

i) B (1mk)

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ii) C (1mk)

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FORM 3 END TERM 1 SERIES 1 EXAMS

NAME: ……

ADM NO: ……..... DATE……..

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565/1

BUSINESS STUDIES PAPER 1

TIME: 2HRS

INSTRUCTIONS TO CANDIDATES

- Write your Name and index No in the spaces provided
- Answer all the questions
- All answers must be written in the spaces provided

ANSWER ALL THE QUESTIONS

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1. Name the discipline described below that is part of the subject Business Studies (4mks)

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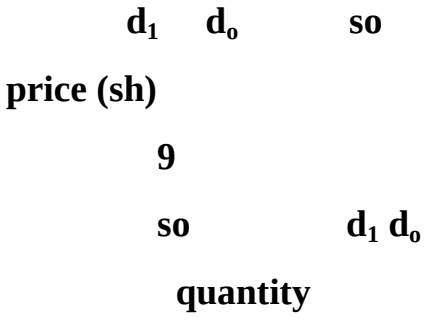
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2. The diagram below shows a shift of the demand give of a commodity from dodo to d1d1. Outline any four factors that could have led to the shift (4mks)



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3. Highlight four factors that may make communication in an organization to be ineffective (4mks)

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4. Give four circumstances under which a cooperative society may be dissolved (4mks)

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5. Outline any four characteristics of an imperfect competition market (4mks)

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6. Write down the meaning of the following terms as used in business(4mks)

Warehousing

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Transport

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Product promotion

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Communication

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7. Give four benefits of electronic filing in an office (4mks)

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8. Give four reasons why business firms advertise their products (4mks)

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9. Mr Kigen is the managing director of Mbau furniture ltd. Which has a large, well equipped workshop with expensive machines. The company handles large sums of money. Outline four insurance policies that the company may have (4mks)

10. Outline four benefits to a firm that uses modern technology in its production activities(4mks)

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11. Highlight four benefits to a retailer who uses a public warehouse to store goods (4mks)

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12. A business wishes to communicate the arrival of much waited stock of goods to its customers. Give four reasons why it might describe to write a short text message(sms) to the customers instead of a business letter (4mks)

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13. Outline any four advantages of using intermediaries in the chain of distribution (4mks)

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14. List down four assumptions of the circular flow of income in a two sector economy (4mks)

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15. Give any four challenges faced by human beings in their endevour to satisfy human wants (4mks)

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16. Highlight any four benefits that the recently launched standard gauge railway from Mombasa to Kisumu would bring to Kenya's economy (4mks)

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17. Name any four occupations that are found at the extractive level of production (4mks)

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18. Outline any four advantages of small-scale retailers over large-scale retailers (4mks)

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19. Highlight any four methods used to determine prices of goods and services in the economy (4mks)

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20. Outline any four challenges that entrepreneurs face in Kenya (4mks)

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21. Highlight four characteristics of free resources (4mks)

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22. Give four advantages of self employment (4mks)

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23. Outline any four duties of an office receptionist (4mks)

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24. Name the types of advertising that are described below (4mks)

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i. Brand name and other features of the brand features more prominently –

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ii. Advertising that aims at popularizing a new product –

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iii. Advertising that popularizes the business organization –

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iv. **U**sed by organization that deals with similar products to convince potential customers to buy their products and not the other –

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25. Highlight any characteristics of subsistence production in Kenya (4mks)

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FORM 3 END TERM 1 SERIES 1 EXAMS

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565/2

BUSINESS STUDIES PAPER 2

TIME: 2 ½ HRS

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INSTRUCTIONS TO CANDIDATES

- This paper consists of six questions
- All questions carry equal marks
- Answer any five questions

1. a) Outline any five differences between a public limited company and a public corporation (10mks)

b) Explain five factors that influence the location of business enterprises (10mks)

2. a) The diagram below shows the equilibrium price and quantity of commodity A which is produced jointly with commodity B.

do do-demand curve

so so - supply curve

PE -Equilibrium point

QE -Equilibrium quantity

d0

so

PE

s0 d0

QE

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i. On the diagram show the effect of a decrease of tax charged on commodity B on the equi8librium price and quantity of commodity A (4mks)

ii. Explain the effect of a decrease of tax charged on commodity B on the equilibrium price and quantity of commodity A (6mks)

b) Bidco Kenya Ltd. is a manufacturer of soap and edible oil products. Highlight five reasons why the company chooses to distribute its products through wholesalers rather than selling directly to consumers (10mks)

3. a) Explain any four ways in which the Kenya government involves itself in government activities in the country (10mks)

b) Discuss five ways which county governments in Kenya can use to attract entrepreneurs in their areas. (10mks)

4. a) Kenya association of manufactures (KMA) brings Kenyan manufacturers together to solve problems faced by the manufacturers as well as consumers. Discuss five measures taken by the manufacturers to protect consumers (10mks)

b) Discuss five importances of natural resources in a country (10mks)

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5. a) A recent economic survey showed a very big gap between the rich and the poor in Kenya Explain any five factors that could have led to this disparity in income distribution among individuals in Kenya (10mks)

b) Highlight any five reasons why there are so many small-scale business firms in Kenya despite the economies of scale enjoyed by large firms (10mks)

6. a) Discuss any five circumstances under which an insurer may not compensate the insured in the event of occurrence of a loss (10mks)

b) Explain any five functions of marketing boards in Kenya (10mks)

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FORM 3 END TERM 1 SERIES 1 EXAMS

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CHEMISTRY

THEORY

PAPER 1

FORM III END OF TERM 1

1. Name another gas which is used with oxygen in welding [1 Mk]

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2. a. write the electronic configuration of calcium (atomic number 20) and magnesium (atomic number 12)

Calcium [½ Mk]

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Magnesium [½ Mk]

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b. Why is calcium more reactive than magnesium? [2 Mks]

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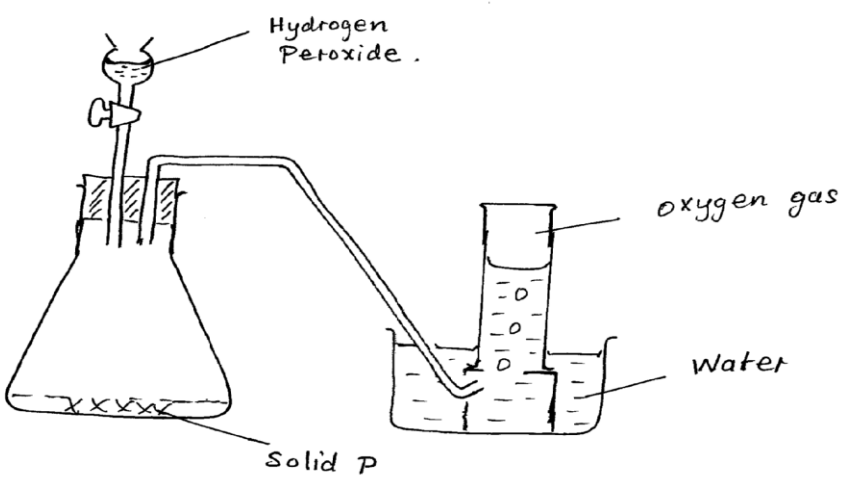
3. The table below shows the relative atomic masses and the percentage abundance of the isotopes T_1 and T_2 of element T

	RAM	% abundance
T_1	62.93	69.09
T_2	64.93	30.91

Calculate the relative atomic mass of element T [3 mks]

4. The diagram below is a set-up for the laboratory preparation of oxygen gas.

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a. Name solid P. [1 mk]

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b. Write an equation for the reaction that takes place in the conical flask[1 mk]

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c. Give two commercial uses of oxygen [2 mks]

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5. State two reasons why hydrogen is not commonly used as a fuel [2 mks]

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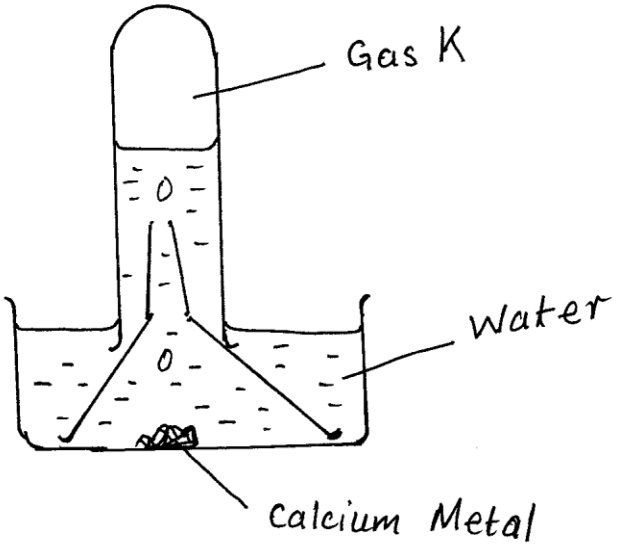
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6. The figure shows a set-up by a form three student to prepare a certain gas



a. Write an equation for the formation of gas K [1 mk]

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b. Give one use of gas K in the industries [1 mk]

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c. Give one use of the resulting solution after the metal has reacted [1 mk]

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7. Draw a dot and cross diagram showing the bonding in a molecule of calcium oxide. Name the type of bond. [3 mks]

8. When 0.288g of an oxide of metal M was reduced using suitable reducing agent, 0.256 of pure metal was formed. Determine the empirical formula of the oxide of the metal M. [M=64 O=16] [4 mks]

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9. X+ is an ion with electronic configuration 2,8,8. Identify element X [1 mk]

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10. 20g of solid sodium hydroxide were dissolved in distilled water and made to 400cm^3. 30 cm^3 of this solution required 27 cm^3 of dilute sulphuric (iv) acid for complete reaction. [Na=23 O=16 H=1]
Determine

i. Moles of sodium hydroxide contained in 30 cm^3 of solution[2 mks]

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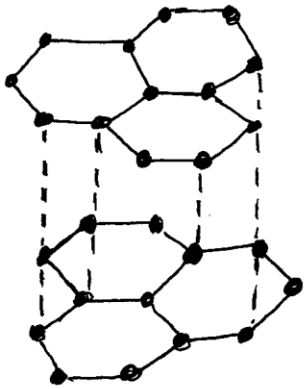
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ii. Moles of sulphuric (iv) acid that reacted [2 mks]

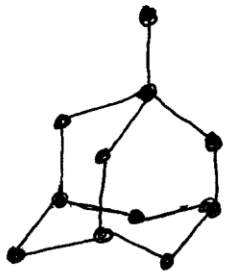
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(iii) Concentration of the sulphuric (iv) acid in moles per litre [2 mks]

11. The diagram shows the structures of two allotropes of carbon. Study them and answer the questions that follow.



A



B

a. Name allotrope A and B [2 mks]

A……

B……

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b. Give two uses of allotrope B [2 mks]

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c. Which allotrope conducts electricity? Explain. [2 mks]

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12. An oxide of element F has the formula F_2O_5

a. Determine the oxidation state of F. [1 mk]

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b. In which group of the periodic table is element F? [1 mk]

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13. Explain how you would obtain solid sodium carbonate from a mixture of lead II carbonate and sodium carbonate. [3 mks]

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14. Give two properties of aluminum that makes it very suitable for making cooking utensils [2 mks]

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15. Write down an ionic equation for the reaction between dilute hydrochloric acid and calcium carbonate [3 mks]

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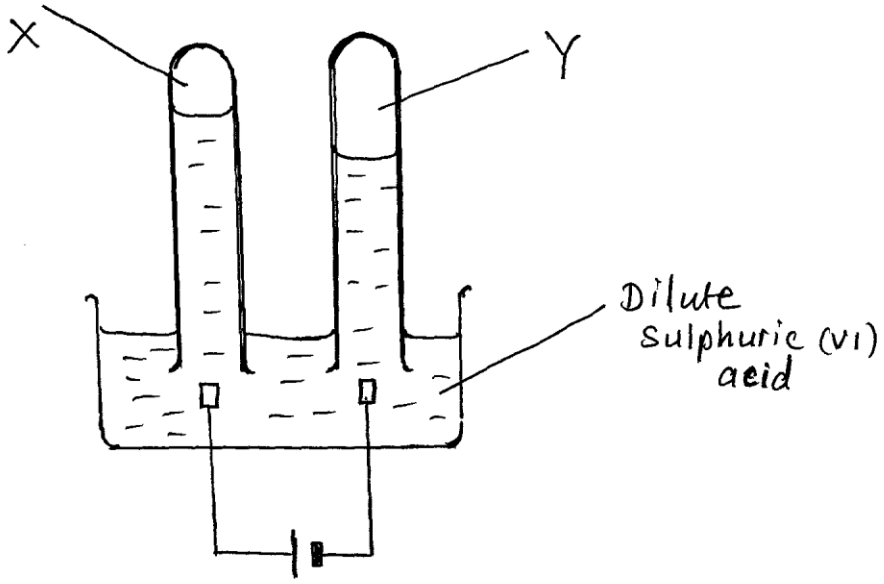
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16. The diagram shows electric current passing through dilute sulphuric (iv)acid



a. On the diagram identify the cathode and the anode [2 mks]

b. Identify substances X and Y [2 mks]

X [1 mk]

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Y [1 mk]

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17. State and explain the change in mass that occur when following substances are separately heated in open crucibles

[4 mks]

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a. Copper metal

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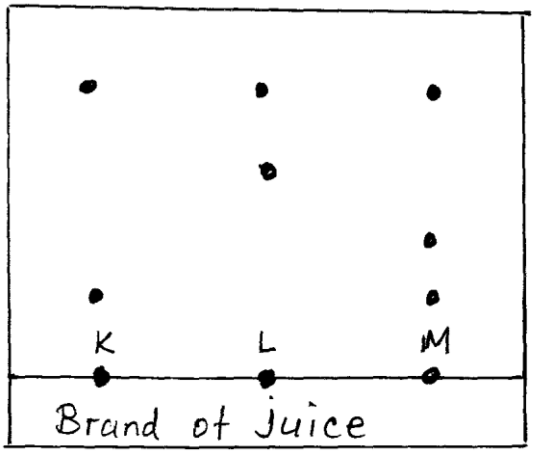
b. Copper II nitrate

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18. The diagram below represents a paper chromatograph for three brands of juices suspected to contain banned food colourings



The result showed presence of banned food colourings in L and M only

a. On the diagram

i. Circle the spots which show the banned colourings [2 mks]

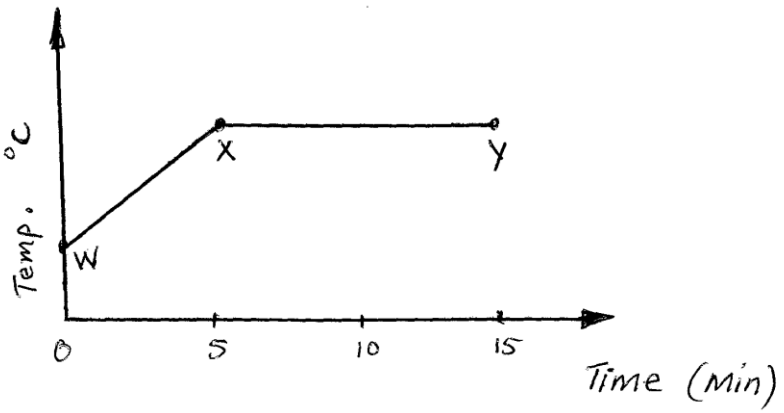
ii. Show the solvent front [1 mk]

b. On the same diagram indicate and label the baseline [1 mk]

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19. Determine the number of sodium ions contained in $25cm^3$ of 0.5M sodium carbonate solution[a=6.023×10^{23}] [3 mks]

20. The graph below shows a curve obtained when water at 20 was heated for 15 mins.



a. What happens to the water molecules between points W and X [1 mk]

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b. In which part of the curve does a change of state occur? [1 mk]

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c. Explain why the temperature does not rise between points X and Y [1 mk]

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21. Write down the formula of the following compounds

i. Potassium manganate vii

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ii. Aluminium oxide [1mk]

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iii. Iron III chloride [1mk]

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22. Write balanced equations for the following reactions

a. Reaction between sodium and excess oxygen [1mk]

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b. Nitric Acid and Copper carbonate [1mk]

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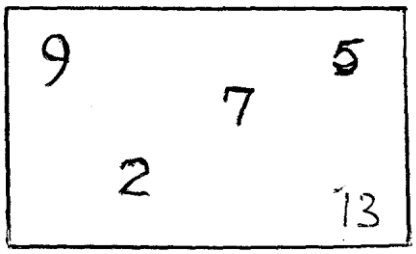
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c. Reaction between Zinc and hydrochloric acid [1mk]

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23. The diagram shows PH values for several substances.



Choose the likely PH value for,

i. Dilute Hydrochloric acid……..**[1mk]**

ii. Calcium hydroxide……..**[1mk]**

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iii. Sodium hydroxide ……..**[1mk]**

iv. Lemon juice ……..**[1mk]**

24. Briefly outline how you would obtain ethanol from a mixture of ethanol and water. [3mks]

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(a) What is rust? [1mkl]

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(b) Give two advantages of rusting.

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FORM 3 END TERM 1 SERIES 1 EXAMS

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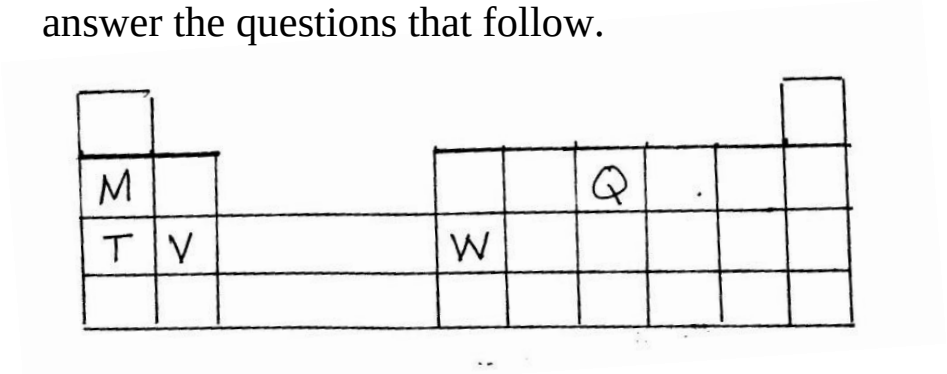
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CHEMISTRY PP2 FORM III

TIME: 2 ½ HOURS:

INSTRUCTIONS: Answer all questions in the space provided.

Q 1. The diagram below represents part of the periodic table use it to answer the questions that follow.



a) Write the electronic management for the stable ion formed by W (1mk)

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b) Write the question for the reaction between V and Q (1 mk)

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c) How do we ionization energies of the elements M and T compare. Explain (2mks)

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Q 2. 60 cm^3 of oxygen diffuses through a porous pot in 50 seconds. How long would it take 60 cm^3 of oxygen gas diffuses through a porous pot in 50sec.How long would it take 60cm^3 of Sulphur (iv) oxide to diffuse through the same pot under the same conditions? (4mks)

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Q 3. Give 2 reasons why helium is used in weathers ballons (2mks)

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Q 4. State the types of change that take place in each of the following situations

a) Burning a piece of charcoal (1mk)

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b) Heating copper (ii) carbonate strongly (1mk)

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c) Heating Zinc oxide strongly (1mk)

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Q 5. In a experiment to determine the percentage of purity of a sample of sodium carbonate, 2.15g of the sample reached completely with $40cm^3$ of 0.5m sulphuric (iv) acid

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i)Calculate the number of moles of Sodium Carbonate that reacted (2mks)

ii)Determine the percentage of Sodium Carbonate in the sample (Na=23,C=12,0=16 (3MK)

iii) Name two industrial uses of Sodium Carbonate (2mks)

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Q 6 A certain mass of gas occupies $0.15dm^3$ at 20c and 98,648.5pa, Calculate it volume at 101325pa and 0^0c (3mks)

Q 7 a) Explain why aluminum is a better conductor of electricity than Sodium (2mks)

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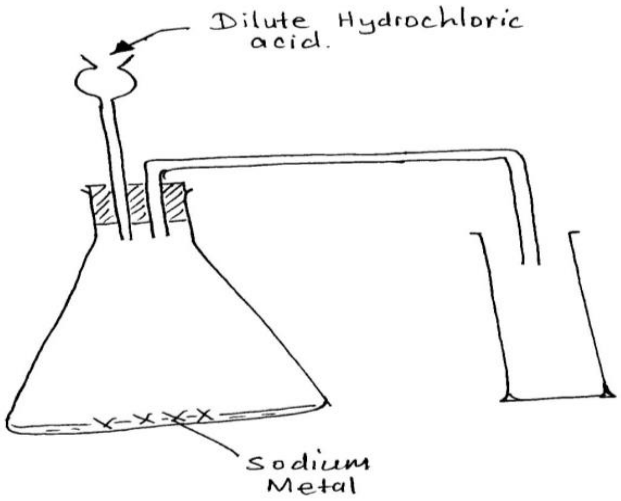
b) State one property of aluminum that makes it suitable for power transmission cables (1mk)

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Q 8 The diagram below shows set-up for preparing hydrogen gas by a Form 3 Student .



a) Identify three mistakes with the set-up (3mks)

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b) On the diagram make suitable modification to solve the mistakes in(a) above (3mks)

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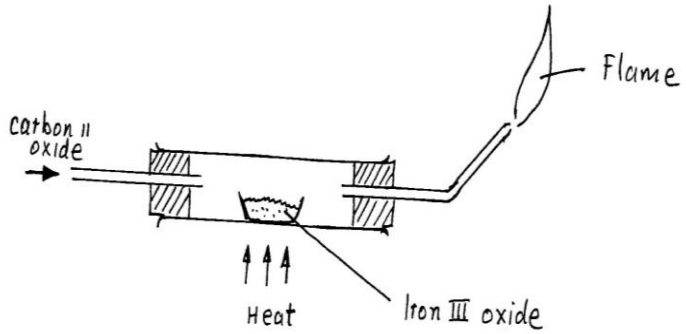
c) What is the test for hydrogen gas (1mk)

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Q 9 Carbon Oxide gas was passed over heated iron III Oxide as shown in the diagram below



a) Give the observation made in the combustion tube (1mk)

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b) Write the equations for the reaction which take place in the combustion tube (1mk)

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c) Which property of carbon II Oxide as demonstrated by the experiment (1mk)

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Q 10.State and explain the function of tartaric acid in baking powder (2mks)

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Q 11.a) State Boyle's Law (1mk)

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b) 300cm^3 of a gas at 800mm Hg was compressed to 200mm Hg pressure at constant temperature. Determine the new volume (2mks)

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Q 12.Explain why is not suitable to have a

a) Jiko with burning charcoal in a closed room (2mks)

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b) Which gas is contained in tizzy drinks? 1mk)

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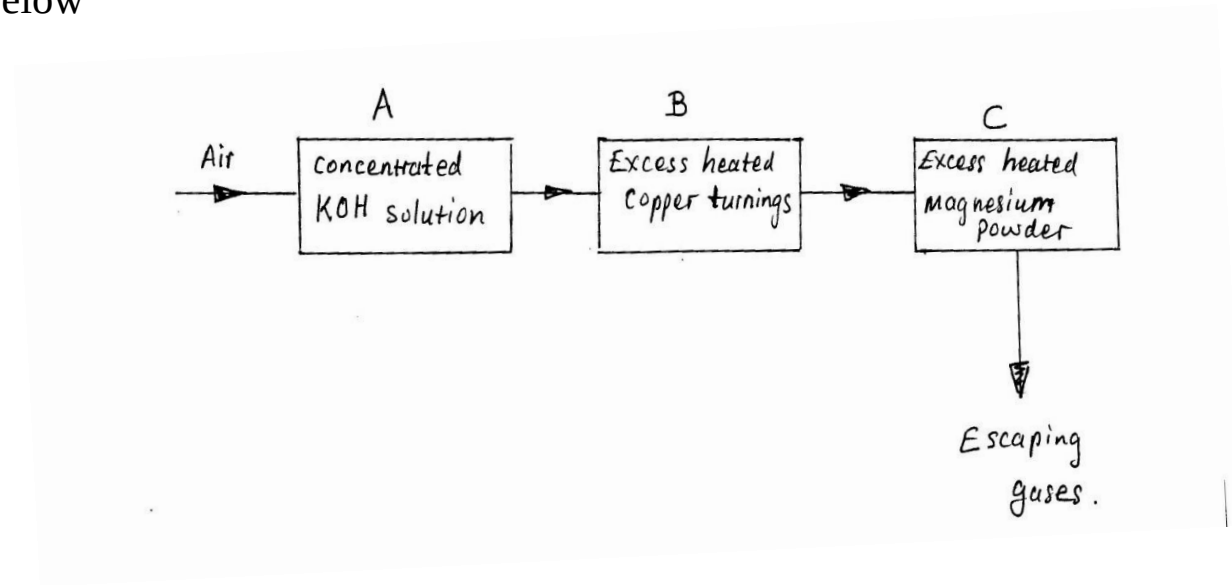
c) Write an equation for the reactions on the gas contained in dizzy drink and water (1mk)

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Q 13.Air was passed through several reagents as shown in the flow chart below



a) Identify substances removed from chambers A and B then

A (1mk)

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B (1mk)

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b) Write an equation for the reaction which take place in the chamber with magnesium powder (1mk)

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c)Name one gas which escapes from the chamber containing heated magnesium powder.

Give a reason for your answer (2mks)

Gas ……

Reason

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Q 14.When potassium Nitrate is heated, it produces potassium Nitrate and gas X

a) Identify gas X (1mk)

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b) Name the type of reaction undergone by the potassium Nitrate(1mk)

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Q 15.Write a balanced equation for the reaction between Magnesium and Steam (1mk)

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Q 16. When Chlorine gas was bubbled through water the resulting solution act as a bleaching agent

a) Explain how the resulting solution act as a bleaching agent (2mks)

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b) Using a neat diagram show how chlorine gas is collected in the laboratory (2mks)

Q 17. Study the information in the table below and answer the questions that follow: The letters do not represent the actual symbol of the element).

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Element.	Electronic configuration	Ionisation energy $KJ\ mol^{-1}$
P	2, 1	519
Q	2, 8, 1	494
R	2, 8, 8, 1	418

a) What is the general name given to the group in which element P, Q and R belong? (1mk)

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b) What is meant by ionisation energy (1mk)

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c) Explain why Element P has the highest ionisation energy (2mk)

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d)When a piece of element Q is placed on water it melts and a hissing sound is produced as it moves on the surface of the water .Explain this observation (3mks)

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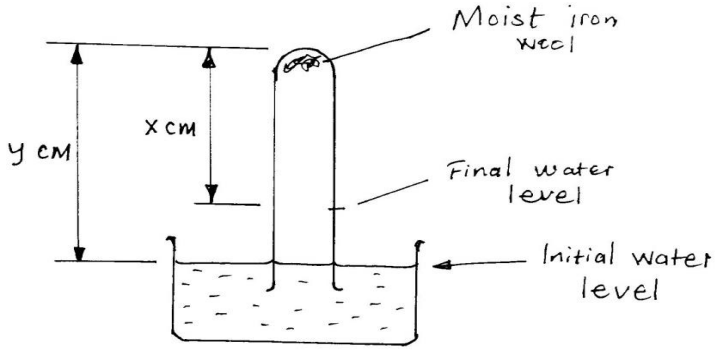
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e) Write an equation for the reaction between elements Q and water (1mk)

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Q 18 Some moist iron wool was placed in a test tube and the tube inverted and placed in a beaker containing water. The apparatus was left for one week .It was observed that the iron wool had rusted and the water level had raisen.No further change took place when the set-up was left for more days even though not all the iron rusted.



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a) Explain whether rusting is a chemical or a physical change (2mks)

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c) Write an expression for an approximate percentage of air used up (1mk)

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d) What would be the effect on the level of the water if a larger piece of iron wool was used (2mk)

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e) State the similarities between rusting and combustion (2mks)

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Q 19 The table below gives the number of protons and neutrons in element G,H,I and J

Element	G	H	I	J
Number of protons	3	17	19	19
Number of neutrons	4	20	18	22

a) Which atoms are isotopes of the same element? (2mks)

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c) Which atoms have the same mass number (2mks)

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f) Write formula of the compound formed between G and H (1mk)

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Q 20 Give the valency of each of the elements (1mk)

or radical in the following chemical compounds. (3mks)

i) $Ca(PO_4)_2$

ii) Mg_3N_2

iii) NaOH

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FORM 3 END TERM 1 SERIES 1 EXAMS

NAME: ……

ADM NO: ……..... DATE……..

SCHOOL……..

233/3 CHEMISTRY PAPER 3

FORM III

END TERM 1 EXAMS

Time: 2 hours

INSTRUCTIONS TO THE CANDIDATES:-

- Write your **name** and admission **number** on the spaces provided.
- Answer ***all*** the questions in the spaces provided.
- Mathematical tables and electronic used calculators may be
- All working **MUST** be clearly shown where necessary.

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Question	Maximum score	Candidate's score
1	20	

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1. You are provided with:

   - Solution A – containing 21.2g per litre of anhydrous sodium carbonate ($Na_2CO_{3(s)}$)
   - Solution B – Nitric (V) acid solution
   - Solution C – metal hydroxide $M(OH)_x$

Procedure 1

i) Fill the burette with solution B

ii) Using a pipette, transfer $25cm^3$ of solution A into a clean conical flask and add 1-2 drops of methyl orange indicator.

iii) Titrate with solution B from burette.

iv) Repeat the titration to obtain accurate results and record the data in the table below. (4 marks)

Titre	I	II	III
Final burette reading (cm^3)			
Initial burette reading (cm^3)			
Volume of solution B used (cm^3)			

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a) Find the average volume of solution B used. (1 mark)

b) Given that the equation for the reaction is

$Na_2CO_{3(aq)} + HNO_{3(aq)} \quad NaNO_{3(aq)} + H_2O_{(l)} + CO_{2(g)}$

Calculate;

(i) The number of moles of sodium carbonate in 25 cm^3 of solution A (3 marks)

(ii) The number of moles of the acid in the titre volume obtained.

(1 mark)

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c) Hence find the molarity of nitric (V) acid solution B.

(1 mark)

Procedure II

i) Pipette 25cm^3 of solution C into a clean conical flask.

ii) Add 1-2 drops of methyl orange indicator.

iii) Titrate with solution b.

iv) Repeat the titration to obtain accurate results and fill the table below.(4 marks)

Table II

Titre	I	II	III
Final burette reading (cm^3)			
Initial burette reading (cm^3)			
Volume of solution B used (cm^3)			

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a) Find the average titre volume of solution B used. (1 mark)

b) Calculate;

i) The number of moles of solution B used in the reacting volume.
(1 mark)

ii) The number of moles of solution C in $25cm^3$ of the the solution.
(1 mark)

c) Determine the equation for the reaction between the hydroxide $M(OH)_x$ and nitric (V) acid. (2marks)

d) What is the value of x in $M(OH)_x$? (1 mark)

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FORM 3 END TERM 1 SERIES 1 EXAMS

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CRE PAPER 1

ANSWER ANY FIVE QUESTION S IN THE ANSWER SHEET PROVIDED

1. a) Outline seven activities performed by God in the second biblical account of creation (7mks)

b) Give six similarities between six in the bible and the Traditional African understanding of the evil (6mks)

c) In what ways is the church fighting evil in the society (7mks)

2a) Explain how Abraham demonstrated his faith in God (6mks)

b) Outline the role played by Moses in the history of the Israelites. (8mks)

c) What do Christians learn about God from the ten plaques. (6mks)

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3a) Give reasons against theocratic rule in Israel (7mks)

b) Explain seven challenges faced by King David in Israel.(7mk)

c) Identify six reasons why a leader may be rejected in the society today. (6mks)

4 a) state four reasons why God's true prophets were putting their prophecies into writing. (4mks)

b) Give four characteristics for false prophets as depicted in the Old Testament. (6mks)

c) Write down five differences between the traditional prophets and the Old Testament prophets. (10mks)

5. a) Describe the call of Amos. (6mks)

b) Identify the social injustices condemned by prophet Amos. (6mks)

c) Explain four factors which hinder a Christian from helping the needy (8mks)

6. a) Why are taboos important in traditional African communities. (6mks)

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b) List 8 ways in which member of the traditional African communities helped the bereaved families (8mks)

c) Identify 6 steps taken by the church to assist orphans. (6mks)

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FORM 3 CRE EXAM

PAPER 2

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ANSWER ANY FIVE QUESTION S IN THE ANSWER SHEET PROVIDED

1. With reference to Luke's gospels, explain eight ways in which Jesus fulfilled the Old Testament prophesies about the Messiah. (8mks)

b) Explain What Zachariah revealed about John the Baptist in the Benedict sin Luke 1:68-80 (6mks)

c) Give reasons why then birth of a child is celebrated in the modern society? (6mks)

2 a) Give reasons why Jesus was rejected in Nazareth (8mks)

b) Describe the healing of the paralytic (lk 5:17-26) (7mks)

c) Give reasons why a church leader may be rejected today (5mks)

3 a) Narrate the parable of the widow and the unjust judge (lk18:1-8) (6mks)

b) Explain Jesus teaching on prayer (8mks)

c) Give the importance of prayers in a Christian life today (6mks)

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4a) Explain actions taken by Jewish leaders to ensure that Jesus was put to death (8mks)

b) Give evidence to show that Jesus resurrected (6mks)

c) What is the importance of Jesus resurrection to Christian today? (6mks)_

5a) Explain the New Testament teaching s on the unity of the believers as expressed in the bride (8mks)

b) Identify causes of disunity in the early church (6mks)

c) Explain how church disciplines those who cause disunity in to church today (6mks)

6 a) Outline seven teachings about Jesus from peters message on the day of Pentecost (7mks)

b) Outline the characteristics of love as taught by St.Paul in 1corinthian 13 (7mks)

c) State activities of the church in Kenya which show that the Holy Spirit is working among them. (6 marks)

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FORM 3 END TERM 1 SERIES 1 EXAMS

NAME: ……

ADM NO: ……..... DATE……..

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ENGLISH 101

FORM 3 EXAMINATION

K.C.S.E

101/1 ENGLISH

TIME: 2HRS

ENGLISH PAPER 1

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I. Imagine that it is your first day in a new school. Write an entry in your journal indicating the things that surprised you, those that scared you and those that made you happy. (20 marks)

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II. Cloze test

The new constitution has bestowed the Supreme Court all _____, role of arbitrating the _____ arising out of presidential elections. The court currently has a golden opportunity to clearly_____ that it is worth the confidence of Kenyans Kenya's are_____with bated breath to see the _____making a determination on the _____ lodged by the CORD Alliance in an_____ and completely impartial manner that will_____all the parties. Indeed, the_____of Kenyans are varied and either way, the court's _____ will be interpreted as either a win or loss for jubilee or CORD alliance.

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ORAL SKILLS (30marks)

(a). Read the following poem and answer the questions below:-

I want to Die While You Love Me

I want to die while you love me

While yet you hold me fair

While laughter lies upon my lips

And lights are in my hair

I want to die while you love me
I could not bear to see
The glory of this perfect day
Grows dim- or crease to be

I want to die while you love
Oh! Who would care to live
Till love has nothing more to ask
And nothing more to give.

I want to die while you love me
And bear to that still bed
Your kisses turbulent unspent
To warm me when I'm dead

<u>Questions</u>

i) Construct the rhyme scheme of this poem.

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ii) Which pair of words rhyme in this poem?

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iii) Which words would you stress in the first and second line and why?

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iv) What is the effect of repetition in this poem?

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v) How would you perform the first two lines?

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vi) How would you say the last stanza.

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b) Explain what each of the following non-verbal cues mean in a conversation

i) Frowning

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ii) Pacing up and down

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iii) Shrugging shoulders

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iv) Winking

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v) Raising both hands up the sky

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c) Identify any four pairs of words in the following list that have the same vowel sounds;

Mad	eat	full	lap
Cat	it	mud	bet
Cut	look	feat	if
Love	boot	fit	

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Beat	pool	further
Lit	father	hut

d) Explain how you would avoid speaking in monotonous manner to make your listeners attentive. (6 mks)

e) The following words have been misspelt. Rewrite them correctly

i) The prefect was <u>privileged</u> to have special diet.

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ii) The students managed to rescue their colleague's from the burning <u>dormitory.</u>

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iii) The <u>professor</u> managed to convince the crowd to vote for him.

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iv) The <u>collage</u> will close for one week to allow for repairs.

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v) Lack of proper <u>maintenance</u> on any machine makes it to break down frequently.

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FORM 3 END TERM 1 SERIES 1 EXAMS

NAME: ……

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101/2

ENGLISH

FORM THRE

(Comprehension, Literary appreciation and grammar)

TIME: 2 ½ HOURS

INSTRUCTIONS:

Answer all the questions in the spaces provided.

1. COMPREHENSION.

Read the passage below and answer the questions that follow after it:

Those who have never travelled by air imagine that it is an interesting experience. It is, in some ways, but I would like to show some of the

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disadvantages. When travelling long distances, one disadvantage is the close proximity of your travelling companions. At least in a crowded train you can get up on the pretext of going to stretch your legs in the corridor, which gives you an opportunity to see if there is a vacant seat with less offensive passengers in another compartment, or, if the worst comes to the worst, you can spend the greater part of the journey in the buffet car eating tired sandwiches and drinking a brown liquid referred to as coffee out of paper cup. You may not enjoy it but it may well be the lesser of the two evils.

Not so on the plane. Inevitably, you find yourself wedged in the middle of a row seating many people. How some unfortunate travellers manage to get the isle or window seats. I have never been able to discover, since they do not look significantly different from anyone else. Perhaps it is done by shameless lying: Excuse me, stewardess, but I must get a seat next to the window as I am recovering from a spinal operation, or I am afraid unless I sit by window, I will get sick and mess up everybody. All I know is, I have never been able to invent a convincing reason.

So, there I am, wedged next to the fattest man on the plane on one side, and the most fidgety child on the other. No room to stretch my legs, barely room to fasten my seat belt, nowhere to rest my arms – in other words, I am sitting „encaged like a sausage, constantly squeezed and trampled over by other members of my row trying desperately to

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reach the aisle or get a view from the window. And when it is time for food, it is even worse. Either the fat man gets my tray as well as his own, or the child, displaying a well-timed fit of temper, sends my meat nearly flying in all directions.

Time and space will not allow me to tell you about other miseries. But do you know? The stewardess could address you in a strange tongue and become impatient when you fail to respond. The food could he strange and unpalatable…….. and you never quite forget that should something happen you would meet your maker without any delay whatsoever.

Well, man's conquests of the air may be his most outstanding achievement to date, but as far

as I am concerned, it's an international disaster.

a) In your own words, say why travelling by air is not a pleasant thing. Use the information given in the first three sentences of the passage.

(2 marks)

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b) According to the passage why is it better to travel on a crowded train than on a crowded plane? (3 mks)

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c) What is implied by the food served in a train? Illustrate your answer. (2 marks)

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d) The writer points out that he has been unable to invent a convincing reason so as to be excused to occupy the window seat. What reason does he give to support this claim? (2 marks)

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e) In **point form**, write the reasons why the writer envies those who get the aisle or window seats. (4marks)

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f. What does the expression encaged like a sausage mean? (2 marks)

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g. Time and space will not allow <u>me</u> to tell you about other miseries. (Rewrite the sentence changing the underlined pronoun to subjective case) (1 mark)

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h. How offensive are the passengers is the writer referring to in paragraph 1 of the passage? (2 marks)

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i. What is the mood of this passage? (2 marks)

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2. READ THE EXTRACT BELOW AND ANSWER THE QUESTIONS THAT FOLLOW

Read the following excerpts and answer the questions that follow

Although Resian had a lot to complain and grumble about in life in their new environment, Taiyo found it tolerable. For instance,

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she gladly discovered that mornings in their new home began with a lively chatter of birds in the trees surrounding their house. That gave the home an atmosphere of tranquility and peace.

However, one of the unpleasant aspects that the girls had to live with was the constant violation of their privacy. In Nasila, they soon discovered, the home belonged to all the clan members. It was not an unusual thing to get up in the morning to find the

living room full of men and women who came early, not for any tangible business, but simply to share a sumptuous breakfast with their kith and kin. Taiyo and Resian were soon to get used to hearing an urgent knock at the door very early in the morning.

On opening, they would invariably be met by a grinning group of men or women who would unashamedly ask them what they were doing in bed that late in the morning. They would proceed to take seats in the living room and order them to serve them breakfast. When they got used to what at first, they considered negative aspects of the Nasila culture, Taiyo and Resian adjusted accordingly and soon they began to live harmoniously with the people. Their father was out of the homestead most of the time working at the shop and organizing other business matters. His absence meant the absence of his irksome and corrosive remarks that always heightened tension in the house. In his absence, the

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house was a continuous joy with comfort and conveniences, and the girls found it pleasurable to keep it clean and well-arranged.

Questions

a) What happens immediately after this extract? (3 marks)
b) Where had the family been living before and why did they move? (2 marks)
c) Give the character traits of the following:
    i. Taiyo
    ii. The people of Nasila (6 marks)
d) Discuss a theme implied in the extract. (3 marks)
e) Using the rest of the book, cite and explain one cultural aspect that had a life changing effect on the lives of the two girls (3mks)
f) Explain a stylistic device used in the extract. (2mks)
g) Taiyo and Resian adjusted accordingly? Add a question tag. (1mk)

QUESTION 3

Read the narrative below and then answer the questions that follow.

There was a famine in the animal kingdom. This famine had lasted so long that any existing source of food had been completely depleted. The animals knew they had to do something real quick or they would all die off one by one. They called a meeting where every animal was in

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attendance and they determined that they had to do something **drastic**. It was decided that the mothers would be sacrificed to ensure the continuation of the animal races. They would eat their mothers.

The dog who had been at the meeting decided to hide his mother. He was not going to sacrifice his mother, so he hid her in the sky. Every day, he would go to a particular spot where he sang a song asking his mother to drop a rope.

Dog would sing:
Mother Mother send down your rope
All have killed and eaten their mothers
Dog has taken his mother to the sky
Mother Mother send down your rope

His mother would drop a rope and the dog would climb to the sky where his mother would have a feast waiting for him.

One day as the dog was singing for his mother to drop the rope, the tortoise was passing by and he hid himself to observe what was going on. He heard the song dog was singing, then he saw a rope being dropped from the sky with which the dog climbed to the sky.

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The following day, the tortoise went to the same spot and **disguising** his voice like the dog's, he sang the song he had heard the dog sing the day before. A rope dropped from the sky and the tortoise began to climb this rope. At this same time, the dog was just approaching the same spot and he saw the tortoise climbing to the sky. The dog immediately started to sing to his mother. This time, he sang that he was not the one climbing the rope and his mother should cut the rope. Dog's mother got a pair of scissors and cut the rope sending the tortoise crashing to the ground. This caused tortoise shell to break into several pieces. He managed to **glue** these pieces together but that is how the tortoise ended up with the rough shell we know today.

(a)With a reason, classify this oral narrative. (2marks)

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(b) Identify and illustrate **two** features of oral narratives evident in the story above. (4marks)

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(c)How important is the song sung by dog to his mother? (2marks)

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(d) Why did the dog have to sing at that particular spot? (2marks)

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(e)Describe **two** character traits of Dog as depicted in the story.

(4marks)

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(f) Explain **one** theme evident in the story. (2marks)

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(g) The following day, the tortoise went to the same spot and disguising his voice like the dog's, he sang the song he had heard the dog sing the day before. (1mark)

Rewrite beginning with: The tortoise…

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Give the meaning of the following words as used in the story. (3marks)

i. Drastic

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ii. Disguising

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iii Glue

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4. GRAMMAR

(a) ***Use the correct form of the word in brackets to complete the following sentences:***

[5 marks]

i. The dress I bought for my baby has……..(shrink)

ii. The government promised to cushion Kenyans against Covid-19 until……. returns. (normal)

iii. The financial experts advised me that it is…….. (hazard) to think of investing now.

iv. Resian lives in a…….. (dominant) male society.

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v. Taiyo and Resian's lives were**…….**(separate) linked.

(b) ***Replace the underlined word in each of the following sentences with appropriate phrasal verb.*** **[3 marks]**

i. Agege always <u>visits</u> at meals time.

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ii. The late president of Burundi refused to <u>relinquish</u> power in 2015 leading to bloodshed.

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iii. The ten people who tested positive for Covid-19 are <u>stabilizing</u> at Mbagathi Hospital.

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(c) ***Rewrite the following sentences as instructed. Do not change the meaning*:** [4 marks]

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It was a bizarre incident.[Rewrite beginning:

How……..]

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i. Walking around without wearing a mask is dangerous.[Rewrite using a to infinitive]

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ii. It would be unwise to open schools amid the Covid-19 pandemic. (extremely). [Put the word in brackets in its correct position in the sentence]

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iv)When the people burst into the councilors office he had not even sat down. (Begin: Hardly)

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d) Fill the blank spaces with the correct preposition

a) I am indebted _____ him for the help he gave me.

b) She has always confided _____ him.

c) The ailing man has been in bed _____the whole week

FORM 3 END TERM 1 SERIES 1 EXAMS

NAME: ……

ADM NO: ……..... DATE……..

SCHOOL……..

101/3 ENGLISH

(CREATIVE COMPOSITION AND ESSAY BASED ON SET TEXT)

PAPER 3 FORM THREE. TIME: 2 ½ HOURS

INSTRUCTIONS TO THE CANDIDATES: -

- *Answer **three** questions only*
- *All questions are compulsory*
- *Each of your essays must not exceed **450** words.*
- *All answers to be written in the answers booklet provided.*

FOR EXAMINERS USE

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Question	Maximum	Candidate's score
1	20	
2	20	
3	20	
Total Score	**60**	

1. CREATIVE COMPOSITION (20MKS)

Write a story **ending with,**

……. I realized there and then that appearances can be deceptive.

2 DISCUSSIVE ESSAY. [20MKS]

Discuss various ways in which the Kenyan government can address insecurity in the country.

3 THE COMPULSORY SET TEXT [20MKS]

1) What is the relevance of the title A Doll's House?

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GEOGRAPHY PAPER 1

FORM 3

SECTION A:

ANSWER ALL THE QUESTIONS:

1. a. State three forces that influence the shape of the earth. (3 mks)

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b. State three proofs that show that the earth is spherical. (3 mks)

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2. a. Distinguish between a rock and a mineral. (2 mks)

b. Give the metarmophic equivalent of the following rocks. (3 mks)

Original rock	metarmophic
Granite –	……
Limestone –	……
Shale –	……

3. a. What is the longitude of a place M whose local time is 11.00 am. If the local time at longitude 30^{o}E is 2.00 pm. (3 mks)

b. State the effect of the International Date Line. (1 mk)

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4. a. What is Mass Wasting. (2 mks)

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b. State 3 factors which affects the rate of mass wasting. (3 mks)

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5. a. Define the term Vulcanicity. (2 mks)

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b. Name i. Two Intrusive landforms (2 mks)

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ii. Two Extrusive landforms (2 mks)

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SECTION B:

ANSWER QUESTIONS *SIX* (COMPULSORY) AND ANY OTHER TWO QUESTIONS.

6. Study the map of Karatina (1:50,000) sheet 121/3 provided and answer the following questions.

a. i. What type of map is Karatina? (1 mk)

ii. Convert the scale used in the map into a statement scale.(2 mks)

iii. Outline 3 marginal information which you can be able to identify from the map given. (3 mks)

b. i. Citing evidence from the map, use list three social functions of the area covered by the map. (6 mks)

ii. Name 3 human made features from the map. (3 mks)

c. i. Citing evidence from the map explain three economic activities of the area covered by the map.

ii. Describe the drainage of the area covered by the map. (4 mks)

7.a. i. Name three types of faults. (3 mks)

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ii. Apart from compressional force explain two other processes that may cause faulting.(4 mks)

b. With aid of diagrams, describe how compressional forces may have lead to the formation of the Great Rift Valley. (8 mks)

c. Explain five ways in which faulting is of significance to human activities. (10 mks)

8. a. The table below shows Rainfall and Temperature figures of a station in North America.

Month	J	F	M	A	M	J	J	A	S	O	N	D
Rainfall in mm	15	8	8	13	31	51	51	51	28	25	18	20
Temp (^{o}C)	-22	-19	-12	-1	4	10	11	11	5	-11	-18	-20

a. On the graph paper provided, draw a bar graph to represent the rainfall figures. (Use a vertical scale of 1cm represent 10 mm) (5 mks)

b. Give four characteristics of a bar graph you have drawn. (4 mks)

c. i. Calculate the mean of temperature for the station. Show your working. (2 mks)

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ii. State five characteristics of the climate experienced in the station. (5 mks)

d. You intend to carry out a field study on vegetation around the station with the above climate.

i.. State 3 methods you would use to collect the data. (3 mks)

ii. Highlight 3 methods you are likely to use to record the data. (2 mks)

iii. State 3 problems you are likely to face during the field study.

9. a. Name three types of physical weathering. (3 mks)

b. i. Give three factors that influence the rate of weathering.(3 mks)

ii. Describe two causes of biological weathering. (6 mks)

c. i. Give five types of chemical weathering. (5 mks)

ii. Explain four significances of weathering to human activities. (8 mks)

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10. a. What is aridity? (2 mks)

b. What is desertification. (2 mks)

c. State five causes of aridity and desertification. (5 mks)

d. i. Explain 5 effects of aridity and desertification. (10 mks)

ii. Suggest 3 possible solutions to aridity and desertification.(6 mks)

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END OF TERM 1 GEOGRAPHY PAPER 2 FORM 3:

SECTION A:

ANSWER ALL THE QUESTIONS IN THIS SECTION:

1. a. Define the term Geography? (2 mks)

   b. Outline 4 importances of Geography in the learning process.(4 mks)

2. a. State 4 layers of the earth. (4 mks)

   b. Name the boundary that separate:- (2 mks)

      i. The crust and Mantle.

      ii. The mantle and the core.

3. a. State 2 effects of earths rotation. (2 mks)

   b. Outline 3 causes of earth movements. (3 mks)

4. a. Give three examples of rapid mass movements. (3 mks)

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b. Name 3 fold mountains of Alphine Orogeny. (3 mks)

5. a. What is agro-forestry. (3 mks)

SECTION B:

INSTRUCTIONS:

QUESTION 6 IS COMPULSORY AND ANY OTHER TWO:

6. The table below shows temperature and rainfall date of station X.

Month	J	F	M	A	M	J	J	A	S	O	N	D
Temp. ^{o}C	12	13	14	17	19	22	24	26	24	20	16	13
Rainfall in (mm)	112	84	74	41	46	15	10	5	41	79	130	137

a. Use the data to calculate

i. The mean monthly temperature. (3 mks)

ii. The mean monthly Rainfall. (3 mks)

iii. The median rainfall. (2 mks)

iv. The temperature and rainfall range. (4 mks)

b. Use the rainfall data to draw a simple line graph. (7 mks)

c. State 3 advantages of using a simple line graph. (3 mks)

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d. Outline clearly 3 disadvantages of using this technique. (3 mks)

7. a. Define the term vegetation. (2 mks)

b. i. State and explain 4 factors which influences the distribution of vegetation. (8 mks)

ii. Explain clearly 4 uses of vegetation. (8 mks)

c. i. Give 3 characteristics of Savanna Grasslands. (3 mks)

ii. Fill in the blank spaces. (4 mks)

Temperature grassland	Where its found
Prairies	-
Steppes	-
Pampas	-
Veldt	-

8. a. i. Define the term forest. (2 mks)

ii. Explain five uses of forests and forest products in Kenya.(10 mks)

b. i. Outline any 4 problems facing forestry in Kenya. (4 mks)

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ii. Highlight five forest conservation measures commonly used in Kenya. (5 mks)

c. Compare and contrast softwood forestry in Canada and Kenya. (4 mks)

9. a. i. Define the term mining. (2 mks)

ii. State three ways in which minerals occur. (3 mks)

b. i. State and explain 4 factors that influence the occurrence and exploitation of minerals.(8 mks)

ii. Explain any two methods employed in underground mining. (4 mks)

c. i. State 4 effects of mining in the environment. (4 mks)

ii. Highlight 4 problems facing mining in Kenya. (4 mks)

10. a. Name the minerals found in the following places in East Africa. (3 mks)

i. Ruhuhu valley

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ii. Kariandusi

iii. Tororo

b. Describe the stripping method of open cast mining. (3 mks)

c. Study the data below and answer questions that follow:-

Percentage of mineral production.

COUNTRY A		**COUNTRY B**	
Lime stone	- 10%	Iron ore	- 50%
Coal	- 20%	Bauxite	- 10%
Iron ore	- 50%	Tin	- 10%
Trona	- 20%	Others	- 30%

i. Draw a dividend rectangle 10cm long to show the percentage of minerals mined in country A. (5 mks)

ii. State three advantages of using dividend rectangles to represent geographical data. (3 mks)

d. i. Name two areas where diamond is mined in South Africa. (2 mks)

ii. Describe the stages involved in the processing of diamonds. (4 mks)

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iii. State 5 economic contributions of diamonds to the economy of South Africa. (5 mks)

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FORM 3

HISTORY & GOVERNMENT PAPER 1

SECTION A: (25mks)

Answer all questions in this section

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1. Give two branches in the study of History and Government in Kenya (2mks)
2. Name the pre-historic site in Kenya where the Kenyapithecus fossil was discovered (1mk)
3. Identify two original inhabitants that the Agikuyu came across in Central Kenya as they settled in the area (2mks)
4. Give two economic reasons why the Cushites migrated form their original homeland (2mks)

5. Name two Historical monuments built by the Portuguese along the Kenyan Coast (2mks)
6. Give two types of Human Rights (2mks)
7. Name the Executive head of the colony in colonial Kenya (1mk)
8. Identify one condition when one may be denied the right to life (1mk)
9. Which was the main reason that enabled the British to conquer Kenya? (1mk)
10. What is democracy? (1mk)
11. Name the type of constitution used in Kenya (1mk)
12. Identify two development rights of children (2mks)
13. Name two communities in Kenya that showed mixed reaction to colonial Kenya (2mks)

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14. Name the person who mobilized the Agiriama resistance against the British (1mk)
15. Name the agreement that marked the end of the scramble and partition of East Africa (1mk)
16. Name the Agikuyu leader who led the raid against the British at Fort Smith (1mk)
17. Give two reasons why the Bukusu resisted British invasion (2mks)

SECTION B (45mks)

Answer any 3 questions from this section

18. a) Give the duties of Portuguese captains along the coast (3mks)
    b) Explain the impact of Portuguese rule along the coast (12mks)
19. a) Give three ways in which the Luo interacted with the Abagusii in the 19th century (3mks)

    b) Describe the social and political organization of the Luo (12mks)
20. a) State the causes of the Nandi resistance to British rule (5mks)

    b) Explain the results of Nandi resistance (12mks)
21. a) State reasons why Nabongo Mumia of Wanga kingdom collaborated (5mks)

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b) Explain the impact of Wanga collaboration (10mks)

SECTION C (30mks)

Answer any two questions

22. a) Give three symbols of National Unity (3mks)

    b) Explain six factors which undermine National Unity in Kenya (12mks)

23. a) State three methods used by the British to establish their rule in Kenya (3mks)

    b) Describe the organization of the central government in Kenya during the colonial period (12mks)

24. a) Give five political duties of a Kenyan citizen (5mks)

    b) Explain five reasons why national integration is important in Kenya (10mks)

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FORM 3

HISTORY & GOVERNMENT PAPER 2

SECTION A: (25mks)

Answer all questions in this section

1. Identify one specific tool invented by Homo Sapiens that greatly improved his way of life (1mk)
2. Identify the term used to refer to animal and plant remains found by Charles Darwin (1mk)
3. Identify two sub species of the Homo Sapiens (2mks)
4. Why is the period of early man referred to as Stone Age? (1mk)
5. Name the famous building in Athens built in honour of the goddess Athena (1mk)
6. Who discovered penicillin? (1mk)

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7. State two advantages of using bicycles as a mode of transport (2mks)
8. State two factors responsible for the decline of Merowe as an urban centre (2mks)
9. Identify the title given to the state kings in the Asante Kingdom (1mk)
10. Give the main advantage of the cell phone (1mk)
11. Identify two treaties that Lewanika of the Lozi signed with the British (2mks)
12. Which European leader was responsible for convening of the Berlin conference 1884 – 1885? (1mk)
13. Give two strategies employed by Samori Toure in his war of resistance against the French (2mks)
14. Apart from river Congo, name the river that was declared free to all Europeans for navigation at the Berlin conference (1mk)
15. What was the main contribution of religion in the Maji maji uprising against German rule in Tanganyika? (1mk)
16. Give two reasons why the British adopted the system of indirect rule in Northern Nigeria (2mks)
17. Define the term the Egyptian question in the scramble and partition of Africa (1mk)
18. List two communes in Senegal where Assimilation was successfully applied (2mks)

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SECTION B (45mks)

Answer any three questions

19. a) What factors led to the development of early agriculture in Mesopotamia? (5mks)

b) Explain five factors that have led to shortage of food in Third World countries (10mks)

20. a) Give three stages of evolution of man (3mks)

b) Describe six ways in which the discovery of fire improved man's way of life (12mks)

21. a) Identify three ways in which water was used in industries during the 18^{th} century (3mks)

b) Explain six social results of the Industrial revolution in Europe during the 18^{th} century (12mks)

22. a) Identify five causes of Maji maji rebellion in 1905 – 1907 (5mks)

b) Why were the African communities defeated by the Germans during maji maji rebellion? (10mks)

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SECTION C (30mks)

Answer any two questions

23. a) Identify 3 European powers that acquired colonies in Africa. (3mks)

b) Explain six reasons why the Lozi collaborated with the British during colonization (12mks)

24. a) Give three economic activities of the Baganda in the pre-colonial period (3mks)

b) Describe the political organization of the Buganda in the pre-colonial period (12mks)

25. a) Outline five reasons why Samori Toure's second empire was not suitable (5mks)

b) Explain five factors that led to the defeat of Samori Toure by the French (10mks)

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FORM 3 END TERM 1 SERIES 1 EXAMS

JINA: ……

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

SHULE……..

102/1

KISWAHILI

KARATASI YA 1 INSHA

MUDA: SAA 1¾

MAAGIZO

(a) Andika insha mbili. Insha ya kwanza ni ya lazima.

(b) Kisha chagua insha moja nyingine kutoka hizo tatu zilizobakia

(c) Kila insha isipungue maneno 400

(d) Kila insha ina alama 20

Kila mtahiniwa lazima aangalie kama kurusa zote za karatasi hii zimepigwa chapa sawasawa na kuwa maswali yote yamo

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1. Wewe ni katibu wa chama cha waandishi habari chipukizi shuleni mwako. Andika kumbukumbu za mkutano uliofanyika mnamo MACHI 7, 2014.

2. Fahali wawili wapiganapo ziumiazo ni nyasi.

3. Anza kisa kwa maneno haya:
   Mtoto aliletwa mbele yangu akiwa anatiririkwa damu usoni.
   Singeweza kumtambua hadi pale…….....

4. Mvua husababisha madhara mengi. Jadili

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JINA: ……

NAMBARI YA USAJILI: ……..…..TAREHE….……

SHULE……..

KISWAHILI KWA KIDATO CHA 3 KARATASI YA PILI

MTIHANI WA MWISHO WA MUHULA I

Maagizo

Jibu maswali yote.

Majibu yatolewe kwenye nafasi zilizoachwa.

Alama jumla – 80 Muda saa 2½

Kwa matumizi ya mtahini pekee

	Upeo	**Alama**
1. Ufahamu	15	
2. Ufupisho	15	
3. Matumizi ya lugha	40	
4. Isimujamii	10	
Jumla	80	

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1. ***Soma taarifa ifuatayo kisha ujibu maswali.***

Habari kuwa watoto chini ya miaka mitatu ‘huwindwa’ kitandani na kuraushwa na wazazi wao waende shuleni mwendo wa saa kumi na moja asubuhi ni za kusikitisha.

Kwa mujibu wa ripoti za wataalamu wa elimu ya watoto wachanga (ECD), watoto hao hutakikana kuwa darasani kabla ya saa kumi na mbili asubuhi.

Wanapowasili wao huanza kufukuza ratiba ya masomo ambayo huwapatia muda mfupi mno wa kula, kucheza, kupumzika na hata kuchunguza afya na usalama wao.

Badala ya kuondoka mapema kuelekea nyumbani, wengi wao hufika saa za usiku pamoja na wazazi wao wakitoka kazini. Wanapowasili nyumbani wanapaswa kuoga na kupata chakula cha jioni kwa pupa ili wafanye mazoezi waliyopewa na walimu wao.

Mazoezi hayo huwa ya masomo yote matano huku kila somo likiwa na zaidi ya maswali thelathini. Badala ya kupumzika mwishoni mwa juma, watoto hao huhitjika kuhudhuria shule siku nzima ya Jumamosi. Jumapili wanatakiwa Kanisani na hali hii hujirudia mpaka muhula umalizike. Ikiwa ulidhani watapewa nafasi ya kupumzika wakati wa likizo , umekosea kwa sababu watoto hao huhitajika kuhudhuria shule. Hili limekuwa likiendelea hata baada ya Wizara ya Elimu kupiga marufuku kusomesha wakati wa likizo.

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Wazazi-hasa wale wanaofanya kazi mijini- wamekuwa wakiunga mkono mtindo huu kwa sababu unawaondolea mzigo wa malezi na gharama ya kuwaajiri walezi.

Wataalamu wanasema matokeo ya hali hii ni watoto **wakembe** wenye afya na **maadili** mabaya kutokana na kuchanganyishwa akili na walimu wanaowataka wajue kila kitu wakiwa na umri mdogo.

Kuwashinikiza watoto wakembe wahudhurie shule na zaidi ya hayo wajue kila kitu kuna madhara mengi. Kwanza kabisa, kuraushwa kwa watoto macheo waende shule kunawanyima fursa ya kulala na kupumzika. Utafiti unaonyesha kuwa watoto wanahitaji kulala na kupumzika kwa zaidi ya saa 12 kwa siku. Hii ina maana kuwa mbali na muda mfupi wanaolala na kupumzika mchana kutwa, watoto wanapaswa kutumia usiku mzima kwa usingizi.

Hii huwasaidia kukua wakiwa na afya nzuri hasa kiakili. Matokeo ya kuwaraushа watoto hao waende shule saa hizo huwafanya wakose furaha mbali na kuwafanya wachanganyikiwe kiakili.

Pili, kuwalazimisha watoto wakae darasani kuanzia saa kumi na mbili asubuhi hadi saa kumi na mbili jioni huwa kunawanyima fursa ya kucheza na kutangamana. Wataalamu wa afya ya watoto wanapendekeza kuwa watoto wachanga wanapaswa kucheza ili viungo vya miili yao kama moyo, akili, mapafu na kadhalika vifanye kazi vizuri.

Kinyume na watu wazima ambao hufanya kazi nzito nzito na kuwawezesha kufanya mazoezi, watoto huwa hawafanyi kazi hizo. Wazazi na walimu

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wanapaswa kufahamu kuwa kazi ya watoto ni mchezo na wana kila haki ya kupewa furaha ya kucheza wakiwa shuleni na hata nyumbani.

Tatu, wazazi wengi ambao hufurahia kuwaachia walimu jukumu la kuwalea watoto wao huku wao wakiwa kazini huwa wanasahau kuwa sio kila mwalimu ana maadili yanayopaswa kuigwa na mwanawe. Ingawa tunawatarajia walimu wawe mifano bora ambayo inaweza kuigwa na kila mtu, ukweli ni kwamba baadhi ya walimu hawajui maana wala hawana maadili. Hatari ni kwamba watoto **wakembe** husoma kwa kuiga wakubwa wao na ikiwa walimu wanaoshinda nao shule wamepotoka kimaadili, kuna uwezekano mkubwa wa watoto hao kupotoka pia. Hii ndiyo sababu wazazi wengi wamekuwa wakilalamika kuwa wanawao tabia mbaya ambazo hawaelewi zilipotoka.

Kila mzazi anayejali maisha ya mwanawe anapaswa kutekeleza jukumu lake la kumlea na kumwelekeza jinsi anavyotaka akue. Ni kinaya kuwa wanawatarajia wanawao wawe na tabia na maadili kama yao ilhali hawachukui muda wa kukaa nao na kuwaelekeza.

Nne, kuwawinda, kuwaamsha, kuwaosha na kuwalazimisha watoto waende shule kila siku hata ingawa hawataki huwa kunawafanya wawe wategemezi wasioweza kujipangia na kutekeleza mambo kivyao.

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MASWALI.

(a) Ipe taarifa anwani mwafaka. (alama 2)

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(b) Mwandishi anatoa maoni gani kuhusu ratiba ya masomo? (alama 2)

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(c) Eleza athari za mfumo wa elimu unaoangaziwa hapa. (alama 3)

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(d) Ni ushauri upi unaotolewa kwa wazazi ? (alama 2)

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(e)Taja mbinu zozote **mbili** za lugha alizotumia mwandishi (alama 2)

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(f) Eleza **maana** ya maneno haya kama yalivyotumiwa katika taarifa. (alama 4)

(i) '**huwindwa' kitandani**

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(ii) **Maadili**

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(iii) **Kuwashinikiza**…

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(iv) **Wakembe**…

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1. Soma taarifa kisha fupisha kwa mujibu wa maswali yafuatayo.

Uwezo wa kuyakumbuka mambo ni hazina kuu kutoka kwa mtu yeyote yule aliye hai. Uwezo huu wa kukumbuka ni mojawapo ya shughuli changamano za ubongo. Ubongo wa mwanadamu hutekeleza shughuli hii kwa namna tatu. Kwanza ubongo hunasa jambo kisha huliihifadhi. Baadaye huanzisha mfumo wa kutoa kilicho hifadhiwa. Ubongo ukiathirika kwa namna yeyote katika moja wapo ya njia hizi, basi uwezo wa kuyakumbuka mambo huvurugika.

Ingawa inaaminika kuwa uwezo wa kukumbuka hurithishwa toka kizazi kimoja hadi kingine, wataalamu wa maswala ya kiakili wanabaini kuwa uwezo huu unaweza kuimarishwa. Uimarishaji huu huhitajika mikakati madhubuti.

Njia mojawapo ya kustawisha uwezo wa kukumbuka ni kupitia kwa lishe. Vyakula vilivyosheheni vitamini B vyenye amino asidi husaidia kuimarisha uwezo wa kukumbuka. Vyakula kama hivi ni mboga, nyama (hasa maini), bidhaaa za soya, matunda, maziwa, ,bidhaa za ngano, samaki, pamoja na mayai. Vyakula vingine muhimu katika ustawishaji huu ni vile vyenye madini ya chuma. Madini haya huwezesha usambazaji wa hewa katika ubongo kwa wepesi. Vyakula ambavyo vina madina haya ni mboga za kijani, mawele, ndengu, soya, matunda kama maembe, ufuta (simsim) pamoja na nyama, hasa maini na mayai.

Ubongo wa mwanadamu aliye hai hufanya kazi kila wakati awe macho au amelala. Utendaji kazi wake huendeshwa na glukosi mwilini. Kwa hivyo, vyakula vyenye sukari hii ni muhimu kuliwa. Hata hivyo, lazima mtu awe mwangalifu na

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kuhakikisha kuwa mwili una kiwango cha sukari kisicho hatarisha maisha. Haya yanawezekana kwa kula vyakula vyenye nyuzinyuzi kama vile mboga na matunda.

Njia ya pili ni kupiga marufuku vileo kama pombe na nikotini. Vileo hivi huathiri utaratibu wa kunasa, kuhifadhi na kutoa yaliyo ubongoni.

Iwapo mtu ana tatizo la kuyakumbuka majina ya watu, ni muhimu kufanya mazoezi ya

kusikiliza kisha kurudia majina hayo wakati wa mazungumzo. Ni bora kulihusisha

jina na sura

ya mtu. Kwa njia hii ubongo utanasa jina na kile kinacholengwa.

Woga na kuvurugika kiakili ni mambo mengine tunayopaswa kuepuka kila wakati. Ni kawaida mtu kupata woga wakati anapokabili jambo asilokuwa na uhakika na matokeo yake kama mtihani au mahojiano. Lakini anapaswa kuwa makini. Woga huo usikiuke mpaka na kumvuruga kiakili. Vurugu hizi huathiri kilichohifadhiwa ubongoni na pia namna ya kukitoa.

Halikadhalika, mwili wenye siha nzuri huhakikisha kuwa ubongo ni timamu. Wataalamu wengi wa siha wanakubali kuwa na mazoezi ya kunyoosha viungo hustawisha ubongo na hivyo kuhakikisha kuweko kwa uwezo wa kukumbuka mambo. Ni muhimu kuwa na taratibu ya kunyoosha viungo kila wakati. Fauka ya hayo, mazoezi ya kiakili, kama vile kusoma makala yanayovutia, kujaza mraba na

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michezo mingine kama mafumbo, vitenzi ndimi ni muhimu katika kustawisha uwezo wa kukumbuka.

Jamii ya watu wenye uwezo kuyakumbuka mambo ni ya jamii iliyopiga hatua kimaendeleo. Ni jukumu la kila mmoja wetu kuimarisha uwezo wa kukumbuka kila wakati.

Maswali:

a) Kwa maneno 60 – 65 fupisha mchango wa chakula katika uimarishaji wa uwezo wa kukumbuka.(alama 6 , 2 mtililiko)

Matayalisho

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Nakala safi

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b) Fupisha aya tatu za mwisho kwa maneno 80 – 90 (alama 7)

Matayarisho

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Nakala safi

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3. MATUMIZI YA LUGHA

. (a) **Andika sifa bainifu za sauti.** (alama 2)

(i) e:- **……**

(ii) n:- **……**

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(b) **Eleza maana ya :-** (alama 2)

(i) Kiimbo.

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(ii) Shadda.

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(c) **Tunga sentensi moja moja kudhihirisha ngeli zifuatazo**:-(alama 2)

(i) U-U

.....

.....

(ii) Pokomo /Pa-ku-mu

.....

.....

(d) **Unda kitenzi kimoja kutokana na nomino** '**Mtubia**" (alama 2)

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(c) Eleza matumizi mawili ya kiambishi '**ku**' (alama 2)

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(f) Tunga sentensi ya maneno manne ambayo ina sehemu zifuatazo.

Kielezi cha namna, kivumishi,kitenzi na jina (alama 2)

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(g) **Yakinisha sentensi ifuatayo;** (alama 2)

Mvua haijanyesha vizuri msimu huu.

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(h) **Onyesha matumizi mawili mawili ya alama zifuatazo:-** (alama 2)

(a) Alama ya mshangao

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(b) Mshazari

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(i) **Tunga sentensi sahihi ukitumia –wa- katika kauli ya kutendeana** (alama 2)

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(j) **Andika udogo wa sentensi:-** (alama 2)

Ndama wa ng'ombe yule ameuzwa.

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(k) **Onyesha tofauti ya vitate vifuatavyo kwakuvitungia sentensi**(alma 2)

(i) Dhamani

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(ii) Thamani

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(l) **Kanusha sentensi ifuatayo katika wingi** (alama 2)

Ningalikuwa na pesa ningalinunua gari

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[m] **Tumia neno "shujaa" katika sentensi kama**:- (alama 2)

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(i) Kivumishi

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(ii) Kielezi.

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(n) Huku ukitumia mifano mwafaka, eleza tofauti ya sentensi sahili na ambatano (alama 4)

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(o) **Onyesha aina za viambishi katika sentensi hii**: (alama 2)

Nitajisomea

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(p) **Andika katika usemi wa taarifa:-** (alama 2)

Tutaanza mashindano kesho, Mwalimu alimwambia mwanafunzi.

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(q) **Eleza maana mbili ya sentensi**:- (alama 2)

Tumetengeneza barabara

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(r) **Tumia mifano mwafaka kueleza aina za mofimu** (alama 2)

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(s) **Changanua kwa njia ya mishale**

Mama analima shambani.

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4. ISIMU JAMII

Soma mzungumzo yafuatayo kisha ujibu maswali *:*

A : Ohh, dada Naomi

B : Dada Ruth (anamsogea kwa bashasha wanakumbatiana). Ahh Mungu asifiwe!

A: Asifiwe sana

B: Ehh dadangu, miezi ...mingi...sijakuona

A: dada wee...Nilitumwa huko kusini ...Kuwahubiria watu injili (mtuo mdogo)singeweza kukata...

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B: Ehh, usiwe kama Yona

A: Habari ya siku nyingi?

B; Nzuri Mungu bado ameendelea kunibariki

A: Amen!

B: Nimeendelea kuiona neema yake

A: Amen! Asifiwe Bwana

B: Halleluya

A: Ni Mungu wa miujiza!

B : Amen. Hata nami nimeona neema yake

Bado niko imara katika wokovu katika siku hizi za mwisho

A : Amen !

B : Ni Mungu wa ajabu kweli !

A : Nilikumbana na matatizo lakini nikategemea sala

Kama Paulo na sila… Na nikashinda (anatua). Sikuweza kumpa

shetani nafasi…maana ameshindwa

B : Ameshindwa kabisa

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Maswali:-

(i) Hii ni sajili ya wapi ? Fafanua [alama 2]

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(ii) Taja na ueleze sifa za sajili hii [alama 6]

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(iii) Taja mambo **mawili** muhimu yaliyosaidia katika maenezi ya Kiswahili Afrika mashariki na kati. [Alama 2]

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FORM 3 END TERM 1 SERIES 1 EXAMS

JINA: …….

NAMBARI YA KUSAJILIWA: ……..…..TAREHE……..

SHULE……

KISWAHILI Karatasi ya 3 FASIHI MUDA : SAA 2 ½

MAAGIZO

i. *Jibu maswali **manne** pekee.*
ii. *Swali la kwanza ni la **lazima***
iii. *Maswali hayo mengine matatu yachaguliwe kutoka sehemu nne zilizobaki yaani; Tamthilia, Riwaya, na Fasihi Simulizi*
iv. *Usijibu maswali mawili kutoka sehemu moja.*
v. *Majibu yote yaandikwe kwa lugha ya Kiswahili*

Kwa Matumizi ya Mtahini Pekee

SWALI	UPEO	ALAMA
1	20	
	20	
	20	
	20	
	JUMLA 80	

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SEHEMU A: USHAIRI

Soma shairi lifuatalo kisha ujibu maswali yafuatayo

1. Mkata ni mkatika, harithi hatoridhiwa
   Sina ninalolishika, wala ninalochukuwa
   Mlimwengu kanipoka, hata tone la muruwa!
   Mrithi nini wanangu?

2. Sina ngo'mbe sina mbuzi, sina konde sina buwa
   Sina hata makaazi, mupasayo kuyajuwa
   Sina mazuri makuzi, jinsi nilivyoachwa
   Mrithi nini wanangu?

3. Sina kazi sina bazi, ila wingi wa shakawa
   Sina chembe ya majazi, mno nikukamuliwa
   Nakwa'cheni upagazi, ngumu kwenu ku'tuwa
   Mrithi nini wanangu?

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4. Sina sikuachi jina, mkata hatasifiwa
   Hata nifanye la mana, mno mi kulaumiwa
   Poleni wangu sana, sana kwenu cha kutowa
   Mrithi nini wanangu?

5. Sina leo sina jana, sina kesho kutwaliwa
   Sina zizi sina shina, wala tawi kuchipuwa
   Sina wanangu mi sina , sana la kuacha kuraduwa
   Mrithi nini wanangu?

6. Sina utu sina haki, mila yangu meuliwa
   Nyuma yangu ili dhiki, na mbele imekaliwa
   N'nawana na miliki, hadi nitakapofukiwa
   Mrithi nini wanangu?

7. Sina ila kesho kwenu, wenyewe kuiongowa
   Muwane kwa nyinyi mbinu, mwende pasi kupumuwa
   Leo siyo kesho yenu, kama mutajikamuwa
   Mrithi nini wanangu?

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MASWALI

(a) **Taja** mambo yoyote mawili ambayo mtunzi angewarithisha wanawe. (alama 2)

(b) Eleza sababu ya mtunzi kutoweza kuwarithisha wanawe. (alama 3)

(c) **Andika** ubeti wa nne kwa lugha nathari. (alama 4)

(d) **Dondoa** mifano miwili miwili ya : (alama 2)

(i) Inkisari

(ii) Tabdila

(e) **Chambua** shairi hili kwa upande wa :

(i) Dhamira (alama 2)

(ii) Muundo (alama 4)

(f) **Eleza maana** ya vifungu vifuatavyo kama vilivyotumiwa katika shairi. (alama 3)

(i) Mlimwengu kanipoka

(ii) Sina konde sina buwa.

(iii) Wingi wa shakawa.

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SEHEMU B: TAMTHILIA YA KIGOGO (Pauline Kea)

2. *" Wamenimaliza… Wamenigeuka…"*

a) Weka dondoo hili katika muktadha wake. (Alama 4)

b) Eleza namna msemaji amemalizwa na kugeukwa? (Alama 4)

c) Eleza umuhimu wa msemaji. (Alama 4)

d) Eleza jinsi wahusika wengine walivyomaliziwa katika tamthilia. (Alama 8)

3. (a) Fafanua jinsi mwandishi wa Kigogo alivyofanikisha matumizi ya Majazi. (alama 10)

(b) Ukiukaji haki na uvunjaji sheria ni mambo yaliyokithiri katika jimbo la Sagamoyo. Thibitisha. (alama. 10)

SEHEMU C: RIWAYA YA CHOZI LA HERI (ASSUMPTA K MATEI)

4. Jadili ufaafu wa anwani *Chozi la Heri* katika Riwaya. (alama 20)

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5. ***"… mwanaume hufumbika hisia. Machozi ya mwanaume hayapaswi kuonekana hata mbele ya majabali ya Maisha…"***

a) Eleza muktadha wa dondoo. (alama 4)

b) Tambua mbinu ya lugha kwenye dondoo hili. (alama 2)

c) Eleza maudhui yanayodhihirishwa na dondoo hili. (alama 2)

d) Fafanua sifa za msemewa wa dondoo. (alama 12)

SEHEMU D: FASIHI SIMULIZI

6.

a) Taja aina mbili za Fasihi (alama 2)

b) kwa kutolea hoja nane Tofautisha kati ya Fasihi ulizotaja hapo juu. (alama 8)

c) (Eleza maana ya Mighani. (alama 2)

d) Jadili umuhimu wa mighani. (alama 8)

7.

Ewe kilizi

Ulozowea kujificha

Nyuma ya mama kujikinga, dhidi ya milio

ya radi ilo juu mbinguni

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Jua kesho ni siku ya siku

Siku ya kujua mbichi na mbivu

Kutofautisha jogoo na vipora,

Ngariba taposhika, chake kijembe

Ndipo utakapojua bayani

Ukoo wetu si wa kunguru

Ikiwa hu tayari

Kisu kukidhihaki

Sithubutu kamwe, wanjani kuingia

sije kuniaibisha miye, amiyo na akraba nzima!

a) Huu ni wimbo wa aina gani? Toa sababu. (alama 2)
b) Wimbo huu unaimbwa na nani ? Toa idhibati. (alama 2)
c) Fafanua sifa nane za huu. (alama 8)
d) Je, nyimbo za aina hii zina dhima gani kwenye jamii. (alama 8)

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FORM 3 END TERM 1 SERIES 1 EXAMS

NAME: ……

ADM NO: ……..... DATE……..

SCHOOL……..

FORM 3 MATHEMATICS PAPER 1

TERM 1 FORM THREE 121/1

INSTRUCTIONS

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1: This paper consists of two sections 1 and 2. Answer all the questions in section 1 and any **5** questions in section 2.

2: KNEC mathematical tables and electronic non- programmable calculators may be used where necessary.

3: Answer all the questions in the spaces provided

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

Section 2	**17**	**18**	**19**	**20**	**21**	**23**	**24**	**total**	

Grand total

SECTION 1

Answer all questions in this section

1.Find without using tables or a calculator the value of (3mk|)

$$\frac{1\cdot33\times0\cdot51}{0\cdot19\times0\cdot0017}$$

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2. The ratio of the size of the exterior angle to the interior angle of a regular polygon is 1:3. Determine the number of sides of the polygon and name it. (3mk)

3. Given that $2x^2–kx+18$ is a perfect square, find k and hence solve the equation $2x^2–kx+18=0$ by factorization. (4mk)

4. Work out using logarithms to 4 s.f

$$\sqrt{(6.225\log 1.001)}$$

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$(56.7\times0.031)^3$ (4mk)

5. Mr. Kanja,Miss Kanene and Mrs Nyaga have to mark a form three math contest for 160 students. They take 5mins, 4mins, and 12mins respectively to mark a script. If they all start to mark at 9.00 am non-stop, what is the shortest time they can take to complete the marking?

(3mk)

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6. Jackie takes 5minutes to run a distance of 1km in a race. Express her speed in

a) km/hr

b) m/s (2mk)

7. Use reciprocal tables to find the value of f given that

(3mk)

8. A man left of his estate in Kerugoya to his wife and to each of his two sons .The remainder was to be shared equally among his six

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brothers. If the estate was worth sh 3 456 000, how much did each of those people get? (3mk)

9. A distance of 12km is represented by a length of 4cm on a map. Given that the scale of the map is 1:n, find the

a) value of n

b) actual area in hectares of a field on the map with an area of 32cm² (3mk)

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10. Solve the equation $\frac{1}{3}(x+4)-\frac{1}{2}(2x-4)=2$ (2mk)

11. The sides of a right angled triangle measured to the nearest cm are 5cm, 12cm and 13cm

Determine the

a) limits within which the measured dimensions lie (1mk)

b) percentage error in the area of the triangle. (3mk)

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12. Form a quadratic equation in the form $ax^2+bx+c=0$ whose roots are b and twice the negative reciprocal of b. (3mk)

13. The coordinates of points A and B are A (2, 3).B (4,–5). M is the midpoint of vector AB.

Determine the coordinates of point M and the magnitude of vector BM. (3mk)

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14. The equation of line L is y=3x–4 and is perpendicular to line H. They cross each other at the y-intercept of line L. Find the equation of line H. (3mk)

15. In a circle radius 10cm, an arc PQ subtends an angle of radians at the centre of the circle. Calculate the radius of another circle whose circumference is equal to the length of arc PQ (4mk)

16. Solve for a in 2187 (3mk)

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SECTION 2

Answer any 5 questions in this section

17. Four towns are situated in such a way that town Q is 500km on a bearing of 120º from P. Town R is 240km on a bearing of 210º from town P, while town S is due north of town Q and due east of town P.

a) Draw a sketch diagram showing the relative positions of P, Q, R and S. (2mk)

b) Find by calculation

i) the distance QR (2mk)

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ii)the distance QS (2mk)

iii)the angle PRQ (2mk)

iv)area of triangle PQS (2mk)

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18. a) Represent the following inequalities graphically by shading the unwanted region

$x \geq 0$, $y \geq 0$, $x+y \geq 5$, $x+y \leq 10$, $y \leq 7$, $x \leq 7$ (6mk)

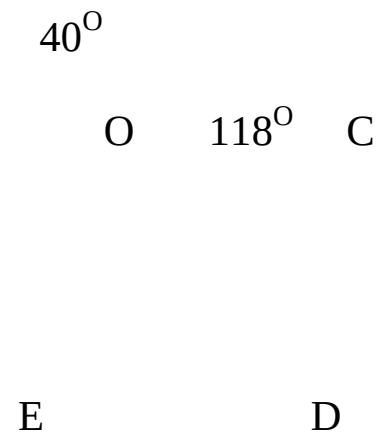
b) write down the coordinates of one point that is inside the wanted region (1mk)

c) Name the figure formed by the unshaded region (1mk)

d)measure and find the sum of all the angles in the figure formed in c) above. (2mk)

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19. In the figure below, O is the centre of the circle and $\angle EAD=40^{o}, \angle BCD=118^{o}$



Find giving reasons

a) $\angle ADE$ (2mk)

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b) reflex $\angle EOD$ (2mk)

c) $\angle EBD$ (2mk)

d) $\angle EAB$ (2mk)

e) $\angle DAB$ (2mk)

20. The marks scored in a form three maths exam were recorded as follows

69 70 72 40 52 60 22 31 78 53 28 67 63 54 57 48 47 56 55 62

75 38 37 44 62 64 58 39 45 48 65 50 85 46 47 57 35 34 58 64

62 37 41 42 36 54 82 48 53 57 56 72 56 48 44 55 78 59 50 45

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a) Make a grouped frequency table with classes 20—29,30—39,40—49,etc (2mk)

b) What is the modal distribution of the test (1mk)

c) Calculate the mean of the data (4mk)

d) Calculate the median mark (3mk)

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21. The velocity(v)of a vehicle measured at intervals of time(t) were recorded as follows

t(s)	0	2	4	6	8	10	12
v(m/s)	0	20	40	40	30	8	0

a) Represent this motion on a graph (3mk)

b) Calculate the acceleration (2mk)

c) Calculate the total distance travelled by the vehicle (3mk)

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d)Calculate the average velocity of the vehicle (2mk)

22. A wooden stool is in the form of a frustum of a cone with slant edge 40cm,top diameter 30cm and bottom diameter 50cm.

a) calculate the perpendicular height of the stool (3mk)

b) calculate the total surface area of the stoolin terms of (3mk)

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c)calculate the volume of wood used to make the stool in terms of (3mk)

d)given that the density of the wood used to make the stool is $0.8g/cm^3$, calculate the mass of the stool in kg (1mk)

23. Using ruler and compasses only,

a) construct triangle ABC in which AB=5cm,BC=6cm and angle ABC=120º. (3mk)

b)measure angle ACB (1mk)

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c)drop a perpendicular from C to cut AB produced at P. Measure CP. (2mk)

d)hence calculate area of triangle ABC to 1dp (2mk)

e)calculate the radius of a circle that passes through the vertices of triangle ABC (2mk)

24. The distance between two towns A and B is360km.A minibus left town A at 8.15a.m and travelled towards B at an average speed of 90km/hr. A matatu left town B at 10.35a.m on the same day and travelled towards A at an average speed of 110km/hr.

a)i)how far from A did they meet? (4mk)

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ii)at what time did the two vehicles meet? (2mk)

b) A motorist left his home at 10.30a.m on the same day and travelled at an average speed of 100km/hr. He arrived at B at the same time as minibus. Calculate the distance from B to his home. (4mk)

FORM 3 END TERM 1 SERIES 1 EXAMS

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FORM THREE MATHEMATICS PAPER 2 (2121/2) TERM 1

INSTRUCTIONS

1. This paper consists of two sections. Answer all the questions in section 1 and any **5** questions in section 2.

2. KNEC mathematical tables and non-programmable calculators may be used when necessary

3. Answer all the questions in the spaces provided.

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

Section 2	17	18	19	20	21	22	23	24	total

Grand total

SECTION 1

Answer all the questions in this section

1.Evaluate $36 - 8 \times -4 - 15 \div -3$

$-3 \times -3 - 8(-6 + -2)$ (3mk)

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2.Simplify $\frac{a+b}{2} - \frac{2a-b}{3}$ (3mk)

3.Find the greatest number which divides 181 and 236 and leaves a remainder of 5 in each case (2mk)

4.A rectangle measures 20cm by 15cm.If each dimension is increased by 2.5cm, by what percentage is

a) the perimeter of the rectangle increased (2mk)

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b)the area of the rectangle is increased (2mk)

5.The angle of elevation of the top of a tree from a point P on horizontal ground is 30º. From another point Q 8 metres from the base of the tree, the angle of elevation of the top of the tree is 48º.

a) Calculate to one decimal place the height of the tree. (1mk)

b) Calculate the distance between P and Q (2mk)

6.Given that $\cos \theta = -0.8070$, find θ for $0 \leq \theta \leq 720$ (3mk)

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7.A piece of wire 40cm is bent to form a right-angled triangle whose hypotenuse is 17cm long. Find the lengths of the other two sides of the triangle (4mk)

8.Solve for x in log 5–2+log(2x+10)=log(x–4) (3mk)

9. Solve the quadratic equation by completing of squares giving your answer to 3sf

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$11x^2 - 13x + 3 = 0$ (4mk)

10. Rationalize the denominator and simplify

$\frac{4\sqrt{5}+3\sqrt{2}}{2\sqrt{2}-\sqrt{5}}$ (4mk)

11.Use a calculator to work out

a) (1mk)

b) (1mk)

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12. A tourist from Kenya left for Ethiopia. He exchanged sh 9898 into Ethiopian Birr at the rate of 1 Eth.Birr=ksh7.95. He spent ¾ of the money he got and converted the balance back to Kenyan money at the rate of 1Eth.Birr=ksh7.98 Calculate what he finally got to 2dp (3mk)

13. Simplify the expression

$$\frac{9t^2-25a^2}{6t^2+19at+15a^2}$$ (3mk)

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14. Three types of tea costing sh203,sh146 and sh197 per kg are blended in the ratio of 2:5:k. Find the value of k,if the blend when sold at sh221 per kg gives 30% profit (3mk)

15. A two digit number is such that 4 times the units digit exceeds the tens digit by1. If the digits are reversed, the number formed is decreased by 45. Find the number. (3mk)

16. A triangular field has dimensions 21m by 52m by 47m.

a) calculate the area of the field to the nearest m^2. (2mk)

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b)calculate the length of a straight ditch dug from the largest angle meeting the opposite side at right angles. (1mk)

SECTION 2

Answer any 5 questions in this section

17. A bookseller bought a number of cartons of books at a cost of ksh 57600 from Kagumo bookstore. Had he bought the same books from Kerugoya bookstore, it would have cost him ksh 480 less per carton. This would have enabled him to buy 4 extra cartons of books for the same amount of money. By taking x to be the number of cartons of books he actually bought;

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a) write an expression in x

i) for the cost of each carton he bought at Kagumo bookstore (1mk)

ii)for the cost of each carton had he bought from Kerugoya bookstore(1mk)

b)find the value of x (6mk)

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c)the bookseller later sold all the books he had bought each carton at ksh 720 more than he had paid for it. Determine the percentage profit he made (2mk)

18. A cylindrical metal bar of diameter 14cm and length 2m is melted and moulded into spherical balls. In the process, 5% by volume of metal is lost and what remains makes balls of radius 3.5cm.

a)calculate the volume of metal used to make the balls. (3mk)

b) find to the nearest whole number the number of balls made (3mk)

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c)find the total surface area of the metal bar (2mk)

d)find the total surface area of the balls made (2mk)

19.a) Draw the graph of $y=(2x–3)(x–1)$ for the interval $–2 \leq x \leq 4$

(6mk)

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b)use your graph to solve

i)$2x^2-5x+3=0$ (1mk)

ii)$2x^2=3x+2$ (3mk)

20. a)Plot triangle ABC with coordinates A(1, 1), B(3, 1) and C(1,3) (1mk)

b)Plot A′B′C′ the image of ABC under an enlargement scale factor 2 centre A and write down it's coordinates (2mk)

c)Plot A″B″C″ the image of A′B′C′ under a reflection in the line x+y=0 and write down it's coordinates (3mk)

d)A″B″C″ is then reflected in the line y=0 to give A‴B‴C‴. Give the coordinates of A‴B‴C‴(2mk)

e) Describe fully a rotation that maps A‴B‴C‴ onto A′B′C′ (2mk)

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21Three businessladies Wanjiku, Muthoni and Njoki decided to buy a lorry. The .marked price of the lorry was 2.8million shillings. The dealer agreed that the ladies could pay a deposit of 60% of the marked price and the rest to be paid within a year.The ladies raised the deposit in the ratio of 3:2:5 respectively. At the end of the year the lorry had realized 2.08million shillings which the three shared in the ratio of their contribution. However, they were required to contribute for the balance of the lorry from these earnings again in the ratio of their original contributions.

a)calculate amount to be paid as deposit (1mk)

b)how much did each contribute to pay for the deposit? (3mk)

c)how much did Njoki receive at the end of the year? (1mk)

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d)calculate the total amount Muthoni and Njoki contributed to pay for the balance. (3mk)

e)how much money did Wanjiku remain with after paying her share of the balance? (2mk)

22.a)Make a table and draw the graph of y= sinx–cosx for x in the range 0, with y values to 2dp and x intervals of 30 (6mk)

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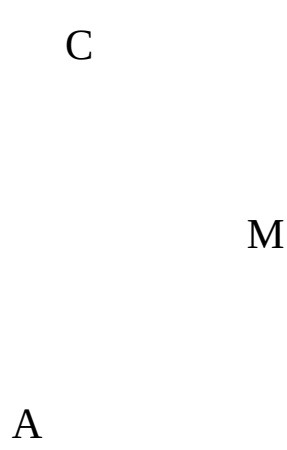
b)use the graph to find the value of y when

i) x=75 (1mk)

ii) x=255 (1mk)

c)find the values of x for which y= –0.9 (2mk)

23.The figure below is a segment of a circle centre O radius r units.CM is the perpendicular bisector of AB .



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Given that CM=1cm and AB=2cm,

a)calculate the radius of the circle centre O from which the segment was cut (3mk)

b)calculate the angle that chord AB subtends at the centre of the circle (2mk)

c)hence calculate

i)the length of arc ACB (2mk)

ii)the area of the segment AMBC (3mk)

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24.A rectangular sheet of metal which measures 120cm by 0.8m is 1.5mm thick and is made of material whose density is 2.2 g/cm^3. From each of the four corners of the rectangle, a square of side 10cm is cut off and the remaining part folded to form an open cuboid.

a)calculate

i) the capacity of the cuboid in cm^3 to the nearest whole number (3mk)

ii)the mass of the empty cuboid in kg to the nearest whole number (3mk)

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b)the cuboid is filled with a liquid whose density is $0.75g/cm^3$. Calculate the mass in kg of the cuboid when full of the liquid

(2mk)

c)calculate the mass of metal lost in kg (2mk)

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FORM 3 END TERM 1 SERIES 1 EXAMS

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232/1 PHYSICS PAPER 1 (THEORY)

INSTRUCTIONS TO CANDIDATES

- Write your name and index number in the spaces provided
- This paper consist of two section A and B
- Answer all questions in section A and B in the spaces provided
- All working must be clearly shown in the spaces provided in this booklet.
- Non- Programmable silent electronic calculators and KNEC mathematical tables may be used

SECTION	QUESTION	MAXIMUM	CANDITATES

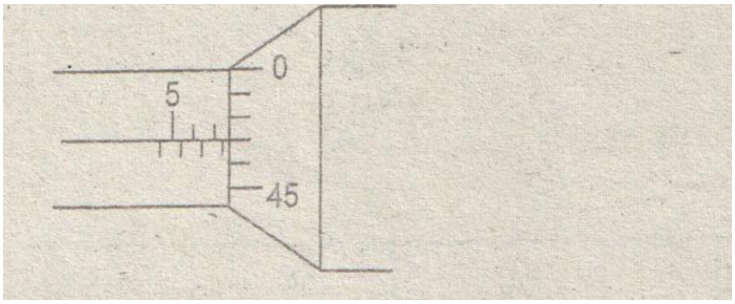
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		SCORE	SCORE
A	**1-12**	**25**	
B	**13**	**11**	
	14	**8**	
	15	**11**	
	16	**9**	
	17	**13**	
	18	**3**	
TOTAL SCORE		**80**	

SECTION A 25MKS

Answer all the questions in this section in the spaces provided.

1. Figure 1 shows a micrometers screw gauge with negative zero error of 0.02mm uses to measure the diameter of a ball bearing

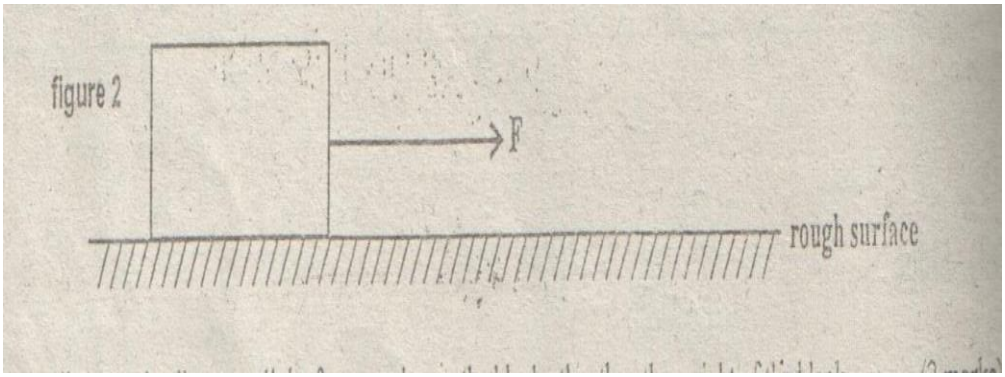


Determine the actual diameter of the ball bearing (2mks)

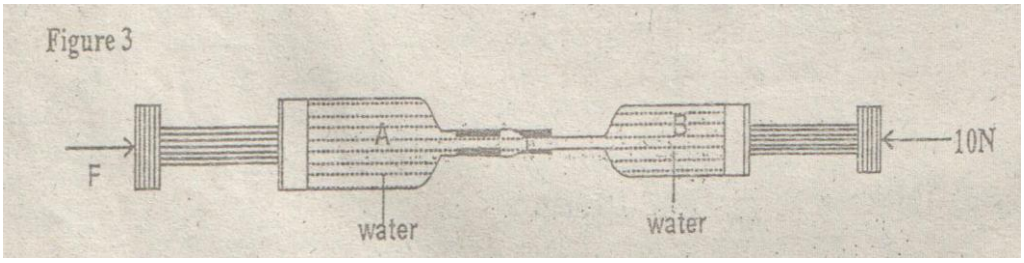
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2. A wooden block resting on a rough surface is pulled by applying a horizontal force F as shown in figure 2

Indicate on the diagram, all the forces acting o the block other than the weight of the block (2mks)



3. The diameter of cylinder A in figure 3 is double that of cylinder B



Determine the force F necessary to keep the system in equilibrium when a force F is applied as shown (3mks)

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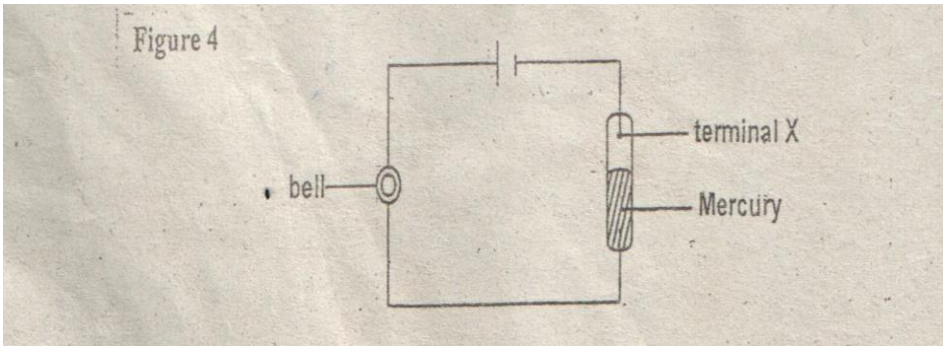
4. State one factor affecting the rate of diffusion of gases (1mk)

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5. Figure 4 shows a simple fire alarm



Explain how the alarm functions (1mk)

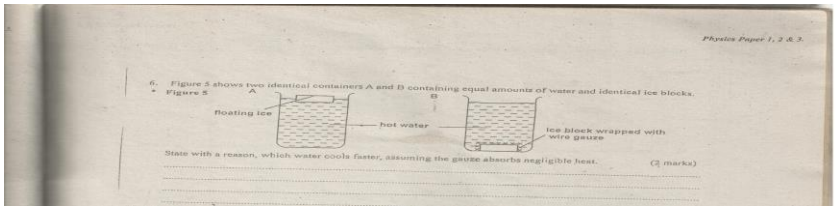
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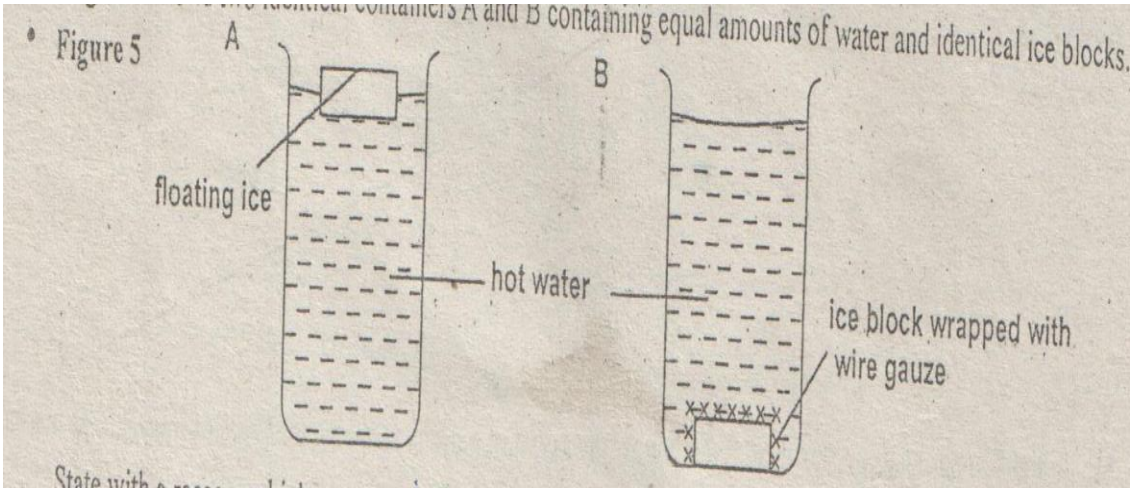
6. Figure 5 shows two identical containers A and B containing equal amounts of water an identical ice blocks

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State with reason, which water cools faster, assuming the gauze absorbs negligible heat (2mks)

7. Figure 6 shows a suspended uniform meter rule in equilibrium when a mass of 50g is hang at the zero mark



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Determine the tension T in the string (3mks)

8. A Bunsen burner in the laboratory can be tilted over a large angle and still get back to its original position once the tilting force is withdrawn. State two factors that are responsible for this observation (2mks)

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9. Figure 7show a syringe full of water. The area of the piston is 1.5cm3 while the area of the outlet is 1.55mm2 The piston is pushed such that it moves from point B in 2 seconds

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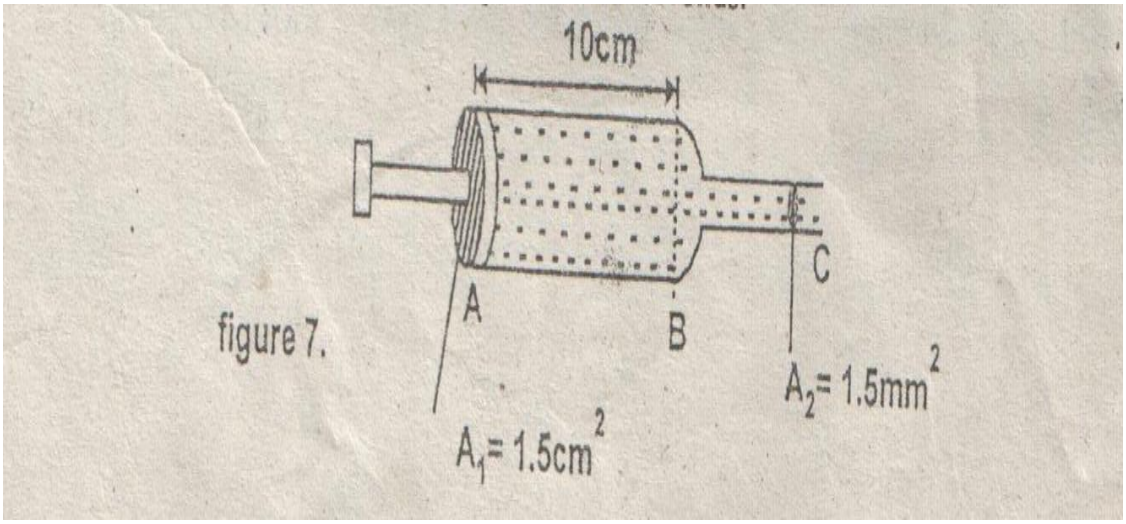


figure 7.

Determine the velocity of water at the outlet (3mks)

10. Sketch a velocity time graph for a body that is uniformly accelerated (1mk)

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11. A high jumper loads on saw dust. Explain how the saw dust helps in reducing the force of impact (2mks)

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12. penetrates a sand bag and is brought to rest in 0.05s. Find the average retarding force of the sand (3mks)

SECTION B 55 MKS

13. a) State Hooke's law for a spiral spring (1mk)

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b) In an experiment, a spiral spring was hung vertically from a stand and various weights attached in turn to its lower end. The extension of the spring for the various weight was noted. The results were recorded as shown in the following table.

Load(N)	0	0.2	0.4	0.6	0.8	1.0	1.1
Extension (cm)	0	0.95	1.9	2.9	3.9	5.5	7.25

i. Plot the graph of load (y-axis) against the extension of the spring (5mks)

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ii. From the graph, determine the elastic limit of the spring (1mk)

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iii. From the graph, determine the spring constant within Hooke's law (4mks)

14. State what is meant by streamline flow. (1mk)

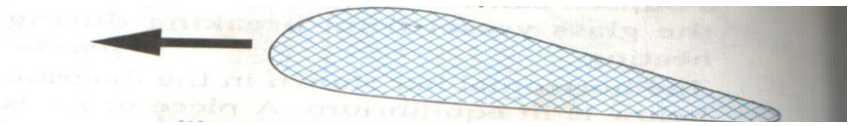
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c) The figure below shows the cross section of an aeroplane wing (aerofoil), with the aeroplane moving in the direction shown by the arrow.



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i. Sketch streamlines to show how air flow fast the with as the aeroplane moves (1mk)

ii. Explain how dynamic lift of the aeroplane is caused by the wing. (3mks)

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c) A water pipe of diameter 5.2cm is connected to another pipe of diameter 1.3cm. The speed of the water in the smaller pipe is 3ms-1. What is the speed of the water in the larger pipe? (3mks)

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15. a) Explain how a person is able to draw milk from a glass using a straw (2mks)

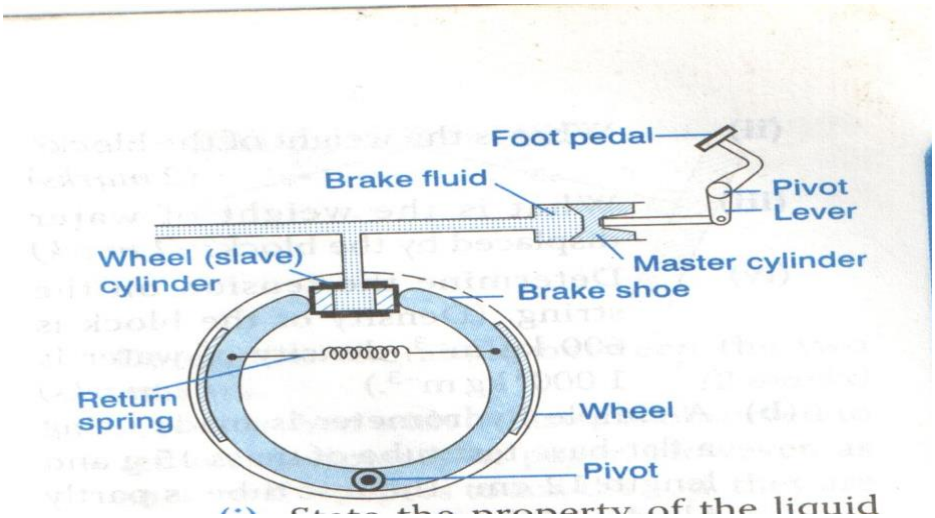
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b) The following diagram shows a simplified hydraulic braking system of a car.



i. State the property of the liquid (oil) that makes it more suitable for use as a brake fluid than a gas (1mk)

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ii. Explain how the system works, starting from when the driver presses the foot pedal (4mks)

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iii. Why would the system not function properly if air leak into the cylinder? (1mk)

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16. a) In an experiment to demonstrate Brownian motion, smoke was placed in an air cell and observed under a microscope, Smoke particles were observed to move randomly in the cell.

i. Explain the observation (1mk)

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ii. Give a reason for those of smoke in this experiment (1mk)

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iii. What would be the most likely observation if the temperature in the smoke cell was raised? (1mk)

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b) An oil drop of average diameter 0.7mm spreads out into a circular patch of diameter 75cm on the surface of water in trough.

i. Calculate the average thickness of a molecule of oil (4mks)

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ii. State two assumptions made in (i) above when calculating the thickness of the oil molecule (2mks)

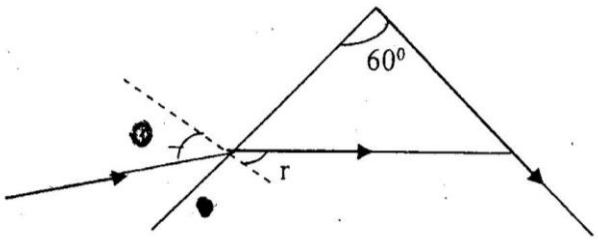
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17. The figure below shows path of ray of yellow light through a glass prism. The speed of yellow light in the prism is 1.88 x 108m/s.



a) Determine the refractive index of the prism material for the light (speed of light in vacuum = 3.0 x 10^8m/s (3mks)

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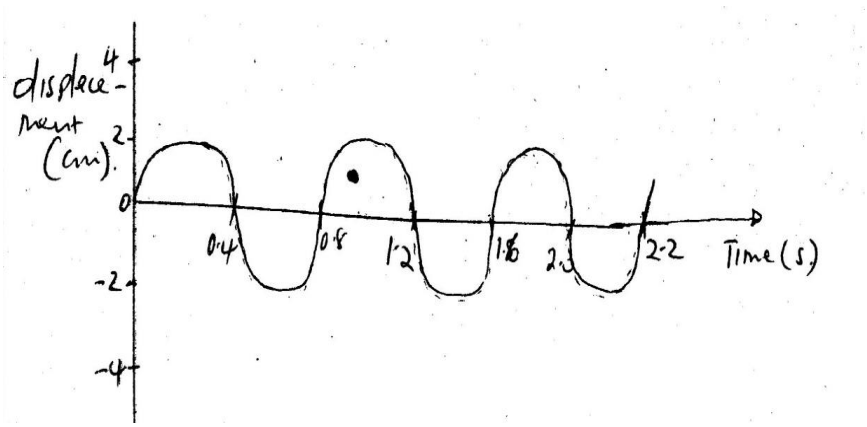
b) i) Show on the diagram the critical angle (1mk)

c) Given that r=21.2°, determine angle Ɵ (3mks)

d) On the same diagram sketch the path of the light after striking the prism if the prism was replaced by another of similar shape but lower refractive index (use dotted line for your answer) (2mks)

18. The figure below shows a wave profile

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Determine

i. The period of the wave (½ mk)

ii. The amplitude of the wave (½ mk)

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iii. If the velocity of the wave is 4m/s, calculate the wavelength of the wav (2mks)

FORM 3 END TERM 1 SERIES 1 EXAMS

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232/2

PHYSICS PAPER 2 (THEORY) TIME; 2 HOUR

INSTRUCTIONS TO CANDIDATES

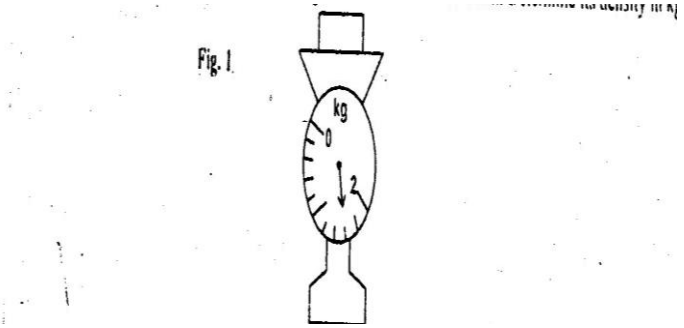
- Write your name and index number in the spaces provided
- This paper consist of two section **A** and **B**
- Answer all questions in section **A** and **B** in the spaces provided
- All working must be clearly shown in the spaces provided in this booklet.
- Non- Programmable silent electronic calculators and **KNEC** mathematical tables may be used

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SECTION	QUESTION	MAXIMUM SCORE	CANDITATES SCORE
A	1-12	25	
B	13	13	
	14	10	
	15	3	
	16	13	
	17	6	
TOTAL SCORE		80	

SECTION A 25MARKS

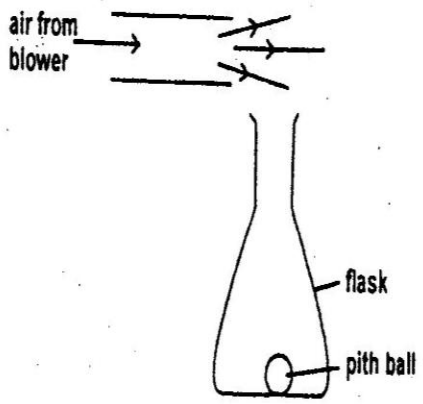
1. The block of wood on the balance in the figure below is a cube of side 20cm Determine its density in kgm^{-3} (3mks)



2. The diagram below shows a pith ball in a flask. When a jet of air is blown over the mouth of the flask, the pith ball is found to rise from the bottom. Explain this observation (2mks)

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Fig. 2



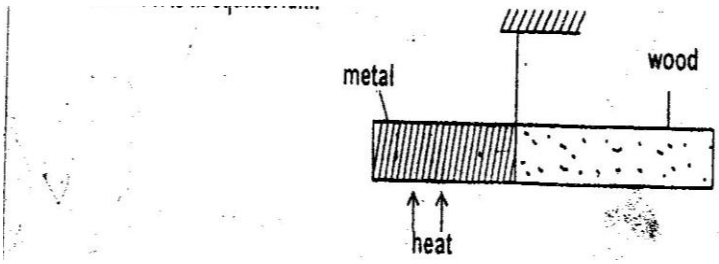
3. It is observed that a smelly gas released at the back of the laboratory spreads faster on a hot day than on a cold day. Explain (1mk)

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4. The diagram below shows a rod made of wood on one end and metal on the other end suspended freely with a piece of thread so that it is in equilibrium



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The side mad of the metal is now heated with a Bunsen flame. State with reason the side to which the rod is likely to fit (2mks)

5. When a piece of metal is place in water it sinks. But when the same piece of metal is placed on a block of wood it floats explain the observation (2mks)

6. A bullet traveling at a speed of $100ms^{-1}$ strikes a wall and penetrates 2cm. How long does the bullet take to stop after striking the wall? (3mks)

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7. A balloon of volume 1.5cm^3 containing helium gas at a pressure of 3.0 x 106pa is released from the ground when the temperature is 20°C. What will be the pressure when it reaches a point where the volume becomes 3.0m and the temperature 5°C (3mks)

8. Explain why mercury forms a convex meniscus and water a concave meniscus in a tube (2mks)

9. A force of 3500N acts on a stationary body of mass 20kg for 0.02 seconds. Calculate the velocity attained by the body (2mks)

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10. The diagram below shows two identical iron rods, one is placed on a wooden block and the other on a metal block. The ends of the rods are heated as shown.

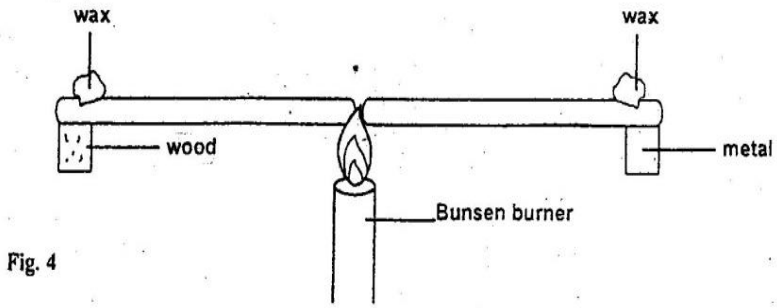


Fig. 4

State with reason the piece of wax that melts first (2mks)

……

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11. A stone is tied to a string and whirled in a horizontal circle at a constant speed. In which direction is the stone being accelerated at each point of its path? (1mk)

……

……

12. A force of 2.0N compresses a spring by 1.0mm. Determine the energy stored in the spring

SECTION B 55MKS

13. a) Define the term 'velocity'. (1mk)

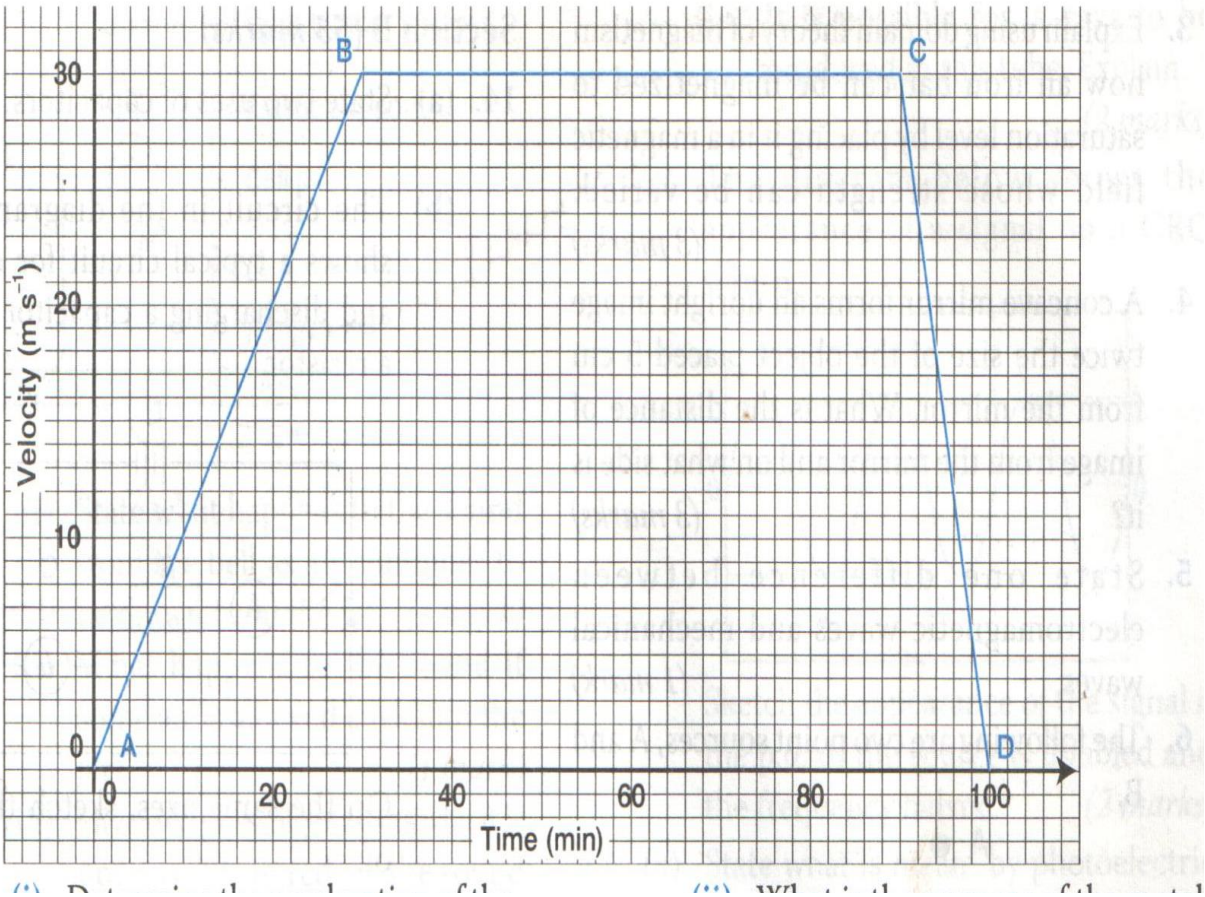
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b) The following figure shows velocity –time graph for the journey of a car in 100minutes.

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i. Determine the acceleration of the car between A and B and between C and D (4mks)

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ii. Determine the distance covered by the car during the journey (3mks)

iii. Determine the average velocity of the car (2mks)

c) A ball rolls off a platform of height 1.8m at a horizontal speed of 15 ms^{-1}. How far off the edge of the platform does it land? (4mks)

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14. A car of mass 2000kg travelling at $5ms^{-1}$ collides with a minibus of mass 5000kg travelling in the opposite direction at $7ms^{-1}$. The vehicles stick and move together after collision. If the collision lasts for 0.1seconds;

a) Determine the velocity of the system after collision of 3 decimal places. (3mks)

b) Calculate the impulsive force on the minibus (3mks)

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c) Calculate the change in kinetic energy of the system (3mks)

d) Explain the change in kinetic energy of the system (1mk)

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15. a) What is the difference between longitudinal and transverse waves? (2mks)

……

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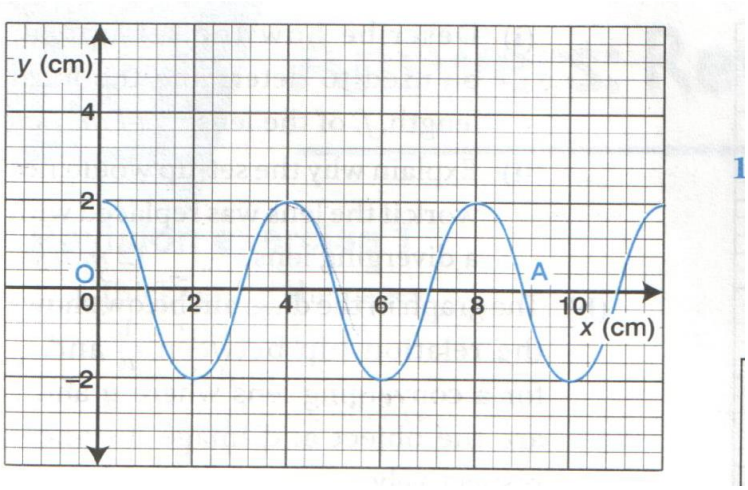
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b) The following figure shows a transverse wave travelling along the x-axis.



i. Determine the wave length and the amplitude of the wave. (2mks)

ii. If the time taken by the wave to move from O to A is 0.04 seconds, determine the frequency and the speed of the wav (4mks)

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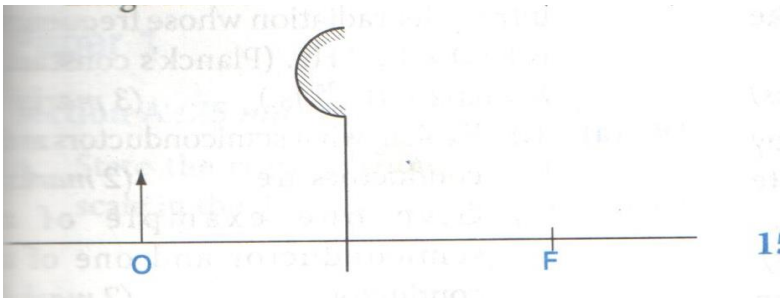
c) A person stands between two vertical cliffs 400m from the nearer cliff. The cliffs are x distance apart.Every time the person strikes the rock once, two echoes are heard, the first one after 2.5s and the second one 2.0 s later. Calculate

i. the speed of the sound in air (3mks)

ii. the value of x (2mks)

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16. a) The following figue shows an object, O, 3cm high placed in front of a concave mirror. C is the centre of curvature mirror. C is the centre of curvature of the mirror.



By constructing a ray diagram, determine the size and the position of the image formed. (3mks)

b) The table shws the object distance, u, and the corresponding image distance v, for an object placed in front of a concave mirror.

u (cm)	20	25	30	40	50	70
v(cm)	20	16.7	15	13.3	12.5	11.6
(cm^{-1})						
(cm^{-1})						

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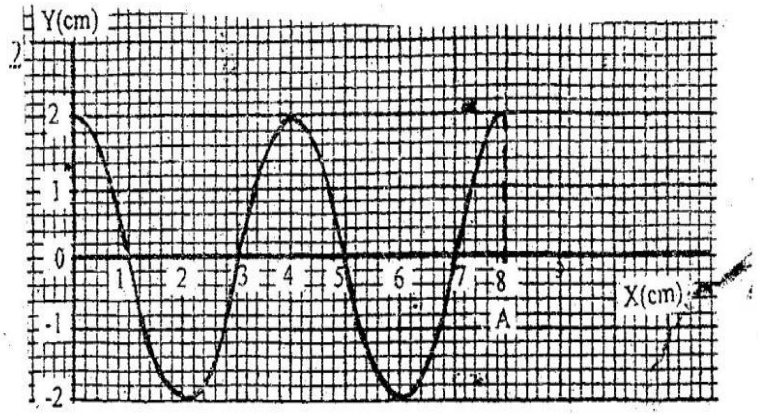
i. Complete the table by filling in the values of and (2mks

ii. plot a graph of (y-axis) against (5mks)

PROVIDE A GRAPH PAPER

iii. From the graph, determine the focal length of the mirror. (3mks)

17. The figure 6 shows a transverse wave travelling along the horizontal axis



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determine

i. Wave length of the wave in metres (2mks)

ii. Amplitude of the wave (1mk)

iii. If the time take by the wave to move from O to A IS 0.02seconds

Determine frequency of the wave (3mks)

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FORM 3 END TERM 1 SERIES 1 EXAMS

NAME: ……

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SCHOOL……..

232/3

PHYSICS Paper 3 (Practical)

Time: 2 ½ Hours FORM 3

INSTRUCTIONS TO THE CANDIDATES:

- *Write your **name** and **index number** in the spaces provided above.*
- ***Sign** and **write** the **date** of the examination in the spaces provided above.*
- *You are supposed to spend the first **15** minutes of the **2** ½ hours allowed for this paper reading the whole paper carefully.*
- *Marks are given for a clear record of the observation actually made, their suitability, accuracy and the use made of them*

FOR EXAMINER'S USE ONLY

Question	Maximum Score	Candidate's Score
1	20	

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2	20	
TOTAL	40	

QUESTION 1

Apparatus

Concave mirror on a lens holder

Screen

Metre rule

Candle

Proceed as follows;

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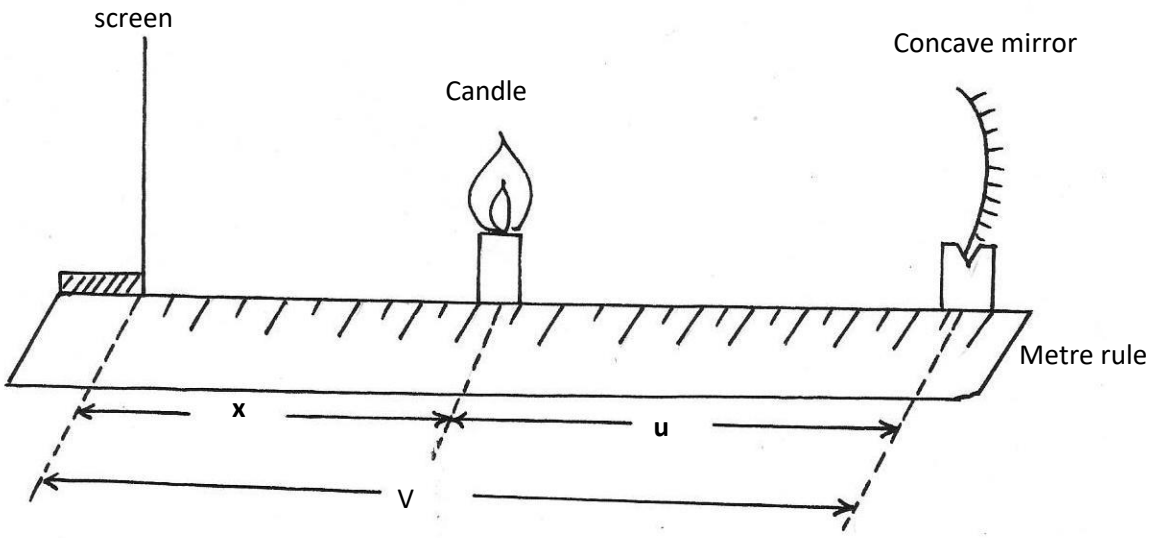


Figure 1

(i) Set the apparatus as shown in fig 1

(ii) Place the candle at a distance x= 5.0cm from the screen

(iii) Move the mirror to and from to focus a clear, sharp image of the candle on the screen

(iv) Measure and record the distance u between the mirror and candle and the distance v between the screen and the mirror.

(v) Repeat the experiment for other values of x and complete the table below (table 1)

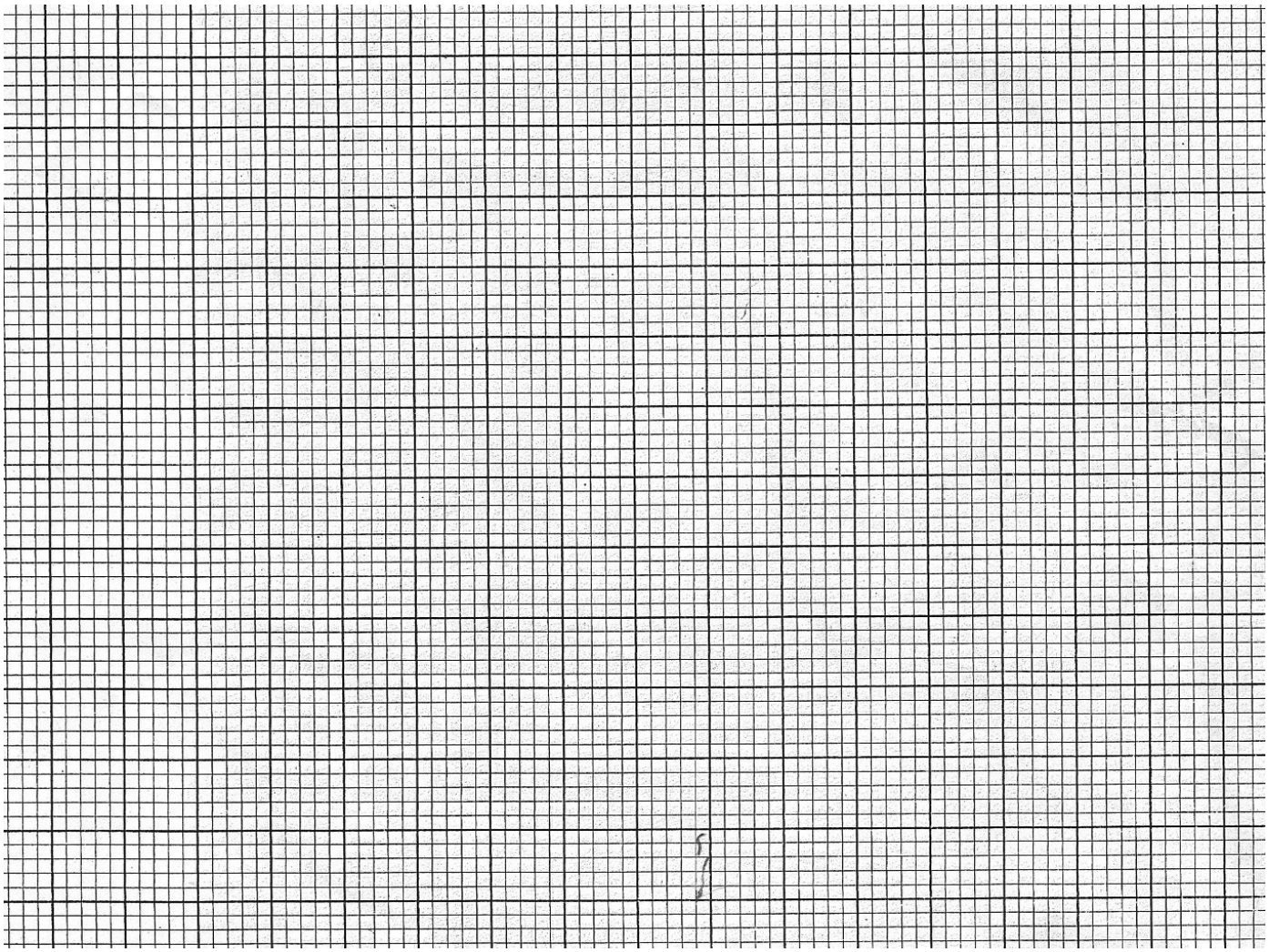
X(cm)	5.0	10.0	15.0	20.0	25.0	30.0

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U(cm)						
V(cm)						
(u+v) cm						
Uv(cm2)						

(vi) Plot a graph of (u+v) (y axis) against uv (5mks)

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(v) Determine the slope S of the graph (5mks)

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(b) Using the value of S obtained in VII above, determines the value of f, the focal length of the mirror. (2mks)

(c) Given that $R = \frac{4f}{S^2}$ determine the value of R (2mks)

QUESTION 2

You are provided with the following

- An ammeter (0-1A)
- A voltmeter
- A wire mounted on a mm scale
- A switch

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- A long wire with a crocodile clip at one end (crocodile clip to be used or a jockey)
- 2 new size D dry cells and a cell holder
- A micrometer screw gauge(may be shared)
- Six connecting wires, two with crocodile clips at the end

Proceed as follows

(i) measure the diameter d of the mounted wire at 3 different points

Average diameter= mm (1mk)

(ii) Set up the apparatus as shown in the circuit diagram in fig 2

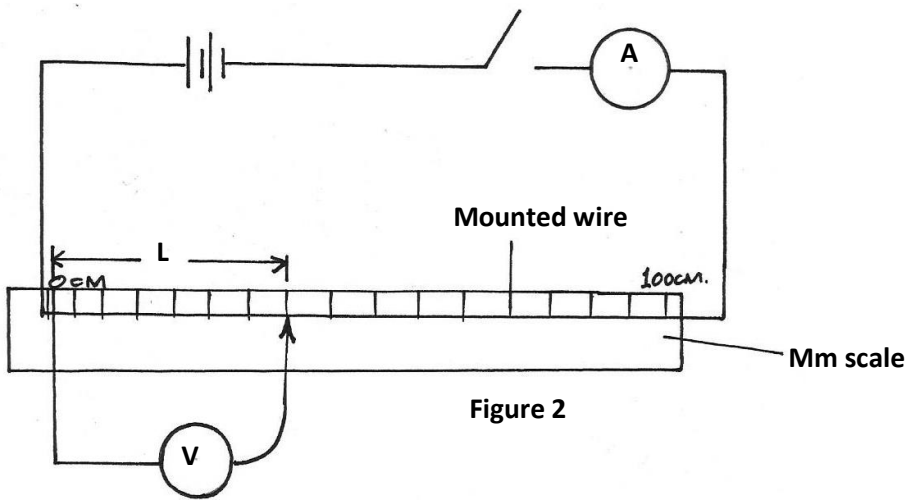


Figure 2

(iii) Close the switch and tap the mounted wire with crocodile chip as shown in the circuit. Ensure that both meters show possible deflection. Open the switch

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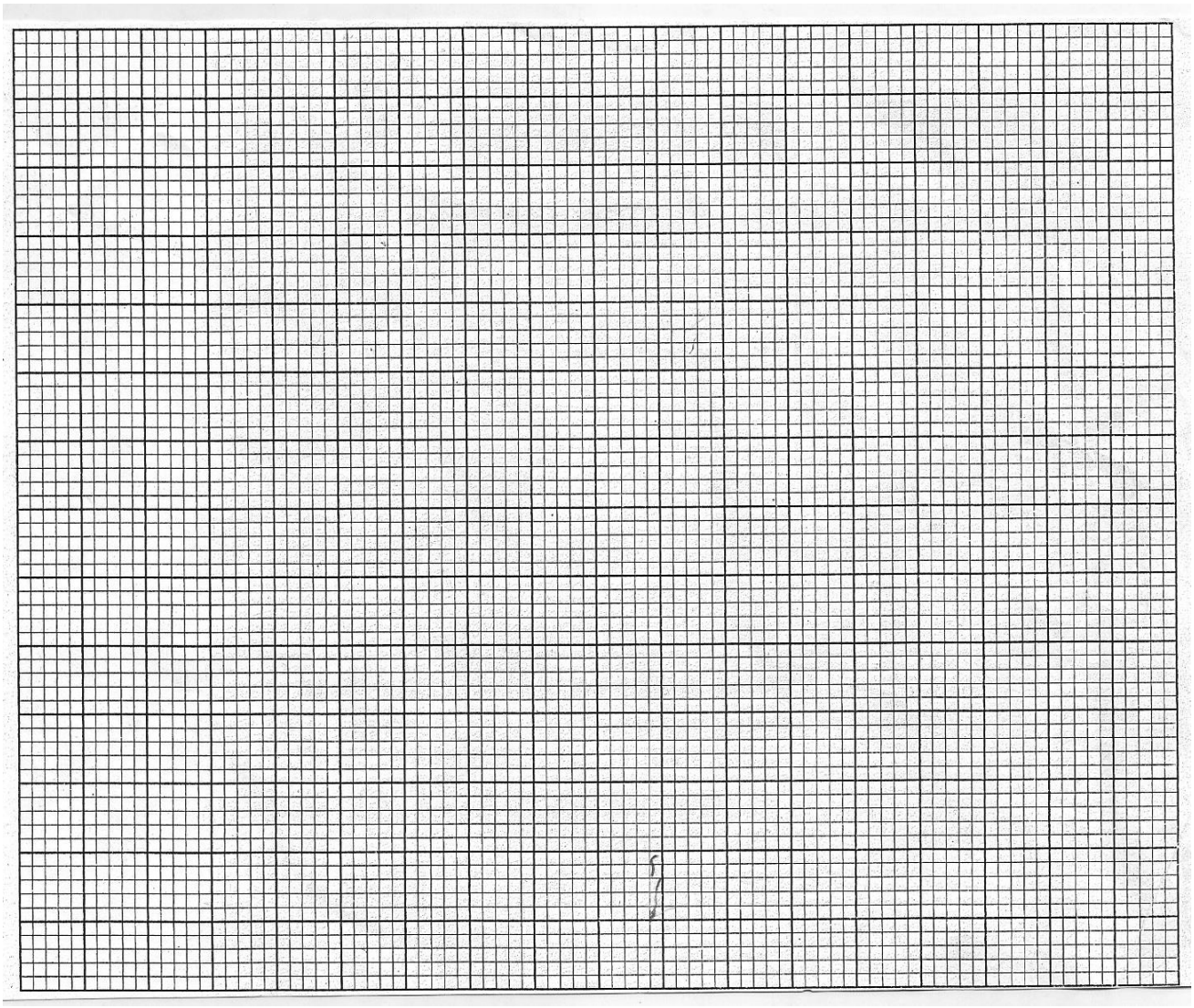
(iv) Tap the wire at L= 20cm, close the switch, and record in the table provided the ammeter and the voltmeter reading.

(v) Repeat procedure in IV for the other values of L, shown in the table below and complete the table. (8mks)

L (cm)	L(m)	V(volts)	I	R= $\frac{V}{I}$(Ω)
20				
30				
40				
50				
60				
70				
80				

(vi) Plot the graph of R(y-axis) against Lcm (grid provided)

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(a) Determine the slope of the graph (3mks)

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(b) Given that the $R = \frac{\rho L}{A}$ where A is the cross sectional area of the wire and ρ is a constant for the material of wire. Determine the value of the constant ρ

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