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



EXCELLING STUDENTS FORM THREE END TERM TWO SERIES TWO EXAMS

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

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

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EXCELLING STUDENTS FORM THREE END TERM 2 SERIES TWO EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

Term 2

AGRICULTURE (443/1)

PAPER 1

FORM THREE (3)

Time: 2 Hours

INSTRUCTIONS TO CANDIDATES:

(i) Write your name and admission number in the spaces provided above.

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

(iii) This paper consists of **THREE** Sections **A**, **B** and **C**.

(iv) Answer all questions in Section **A** and **B** and any **Two** in Section **C**.

(v) All answers must be written in the spaces provided.

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Section	Questions	Maximum Score	Candidate Score
A	1 – 18	30	
B	19 – 21	20	
C	22 - 24	40	
Total Score		90	

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SECTION A: (30 MARKS)

Answer all the questions in the spaces provided:

1. Define the following terms as used in horticultural production. **(1mk)**

(a) Pomoculture

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(b) Olericulture.

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2. State **four** benefits of optimum temperature in crop production. **(2mks)**

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3. Outline **three** harmful effects of poor soil aeration to the growth of crops. **(1½mks)**

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4. State **two** conditions that necessitate clearing of land. **(2mks)**

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5. State **four** features that should be considered when choosing water pipes for use on the farm. **(2mks)**

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6. State **two** methods of sub-surface drainage methods. **(1mk)**

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7. State **four** characteristics of a productive soil. **(2mks)**

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8. Give the meaning of the following terms:

(a) Nitrogen fixation into the soil. **(1mk)**

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(b) Phosphorous fixation in loss of soil fertility. **(1mk)**

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9. Calculate the amount of P_2O_5 in 300kg of a compound fertilizer 25: 10: 5. **(2mks)**

10. State **two** reasons for chitting potato setts. **(1mk)**

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11. (a) Name **two** field management practices that are carried out to obtain optimum plant population in a crop field. **(1mk)**

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(b) Explain how each of the practices named in (a) above achieves optimum plant population. **(1mk)**

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12. Give **four** advantages of staking tomatoes. **(2mks)**

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13. Give **four** reasons for settlement and resettlement. **(2mks)**

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14. State **two** conditions when opportunity costs are zero **(2mks)**

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15. Define the term "Economic Injury Level" of a crop. **(1mk)**

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16. State four management practices in a vegetable nursery **(2mks)**

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17. Give **two** roles of agriculture in industrial growth **(1mks)**

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18. Name a chemical used to achieve the following during water treatment.

(a) Coagulation of solid particles **(½mk)**

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(b) Softening of water **(½mk)**

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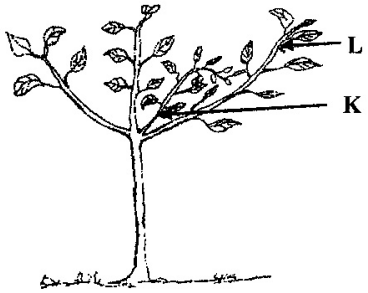
(c) Killing pathogens **(½mk)**

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SECTION B: (20 MARKS)

Answer all the questions in this section in the spaces provided:

19. Below is a diagram of a young orange tree.



(i) Which one of the branches labeled **K** and **L** should be pruned? **(1mk)**

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

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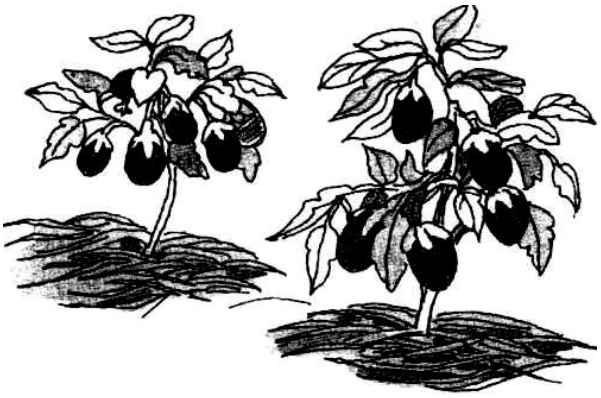
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(iii) Name the **correct** tool for pruning the branch. **(1mk)**

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20. Study the following field practice



a) Identify the practice carried out in the above diagram. **(1mks)**

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(b) Give five reasons for carrying out the above practice. **(5mks)**

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(c) Give four limitations of the above practice. **(4mks)**

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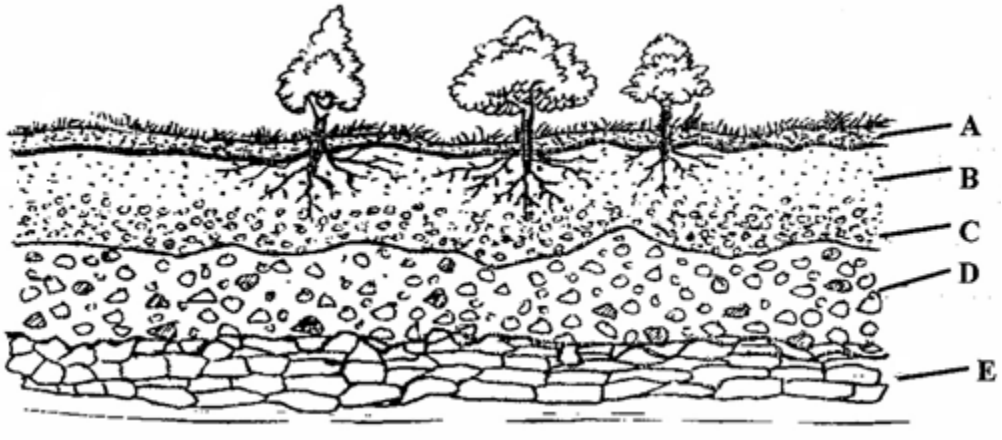
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21. The diagram **below** illustrates the soil from the surface downwards. Study it and answer the questions that follow.



(a) Identify the structure illustrated. **(½mk)**

……

……

(b) Name the parts labeled **A** – **E**. **(2½mks)**

A _____

B _____

C _____

D _____

E _____

(c) Outline **four** ways through which the above illustration influence crop production. **(2mks)**

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SECTION C: (40 MARKS)

Answer any two questions from this section Either 22,23 or 24.

22.(a) Outline **five** ways in which wind affects agricultural production. **(5mks)**

(b) Give the practices that a farmer should carry out to ensure uniform germination of seeds. **(5mks)**

c) Explain any **five** factors considered when spacing crops. **(10mks)**

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23.(a) Outlines six benefits of practicing minimum tillage. **(6mks)**

(b) Give the **main** reasons for practicing crop rotation. **(6mks)**

(c) Outlines the **benefits** of primary cultivation. **(4mks)**

(d) Outline **four** importance of organic matter in the soil. **(4mks)**

24.(a) Outline **five** reasons for keeping breeding records on the farm. **(5mks)**

(b) Discuss the importance of drainage. **(5mks)**

(c) State and explain five biotic factors influencing agriculture. **(10mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES TWO EXAMS

NAME: ……

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Term 2

AGRICULTURE (443/2)

PAPER 2

FORM THREE (3)

Time: 2 Hours

INSTRUCTIONS TO CANDIDATES:

- *Write your name and admission number in the spaces provided above.*
- *Sign and write the date of examination in the spaces provided above.*
- *This paper consists of **THREE** Sections **A**, **B** and **C**.*
- *Answer all questions in Section **A** and **B** and any **Two** in Section **C**.*
- *All answers must be written in the spaces provided.*

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Section	Questions	Maximum Score	Candidate Score
A	1 – 18	30	
B	19 – 21	20	
C	22 - 24	40	
Total Score		90	

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SECTION A: (30 MARKS)

Answer all the questions in the spaces provided:

1. Name **four** methods of dehorning in cattle **(2mks)**

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2. State the function of the following parts of a poultry digestive system **(1mk)**

Crop-……

Gizzard-……

3. State **two** functions of protein in animal nutrition **(1mk)**

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4. Name four bacterial diseases **(2mks)**

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5. Name two meat breeds of goat **(1mk)**

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6. Give four characteristics of a large white breed of pig **(2mk)**

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7. State **four** ways of restraining cattle during routine management **(2mks)**

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8. What is meant by the following terms as used in livestock health?

(a) Incubation period **(1mk)**

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(b) Mortality rate **(1mk)**

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9. Define the following terms as used in livestock rearing (**2mks)**

a) Pullet……..

b) Cockerel……..

c) Piglet ……..……

d) Sow……..

10. What is creep feeding? **(2mks)**

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11. State two meat breeds of sheep **(1mk)**

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12. Give microbial activities that takes place in the rumen **(2mks)**

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13.(a) State 2 functions of cobalt in animal's body **(1mk)**

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(b) Name two classes of feedstuff **(1mk)**

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14. Give 4 mechanical method of tick control **(2mks)**

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15. State four structural requirements of a pig house **(2mks)**

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16. State 4 disadvantages of using spray race over cattle dip **(2mks)**

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17. Give the uses of the following farm tools and equipment **(2mks)**

i) strip cup

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ii) milk strainer

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iii) Hacksaw

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iv) Centre punch

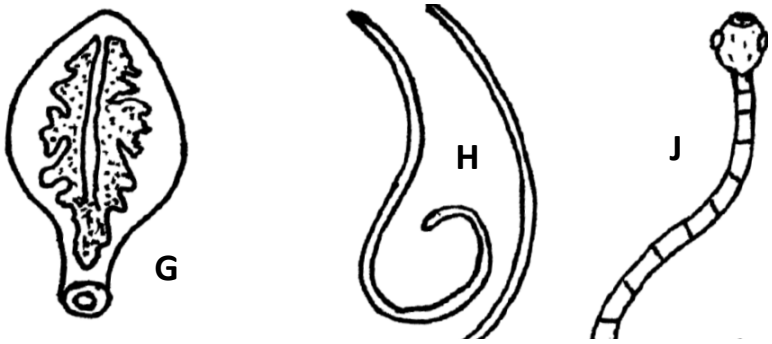
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SECTION B: (20 MARKS)

Answer all the questions in this section in the spaces provided:

18. Diagram **G**, **H** and **J** illustrates some livestock parasites



(a) Identify parasites **G,H** and **J** **(3 mks)**

G……

H……

J…….....

(b) Name the parts of the host body where parasites **G** and **J** are found **(1mk)**

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(c) Name the intermediate host of parasites **G** and **J** **(2mks)**

G ……

J ……

(d) Outline **four** symptoms of attack in livestock by parasite J **(2mks)**

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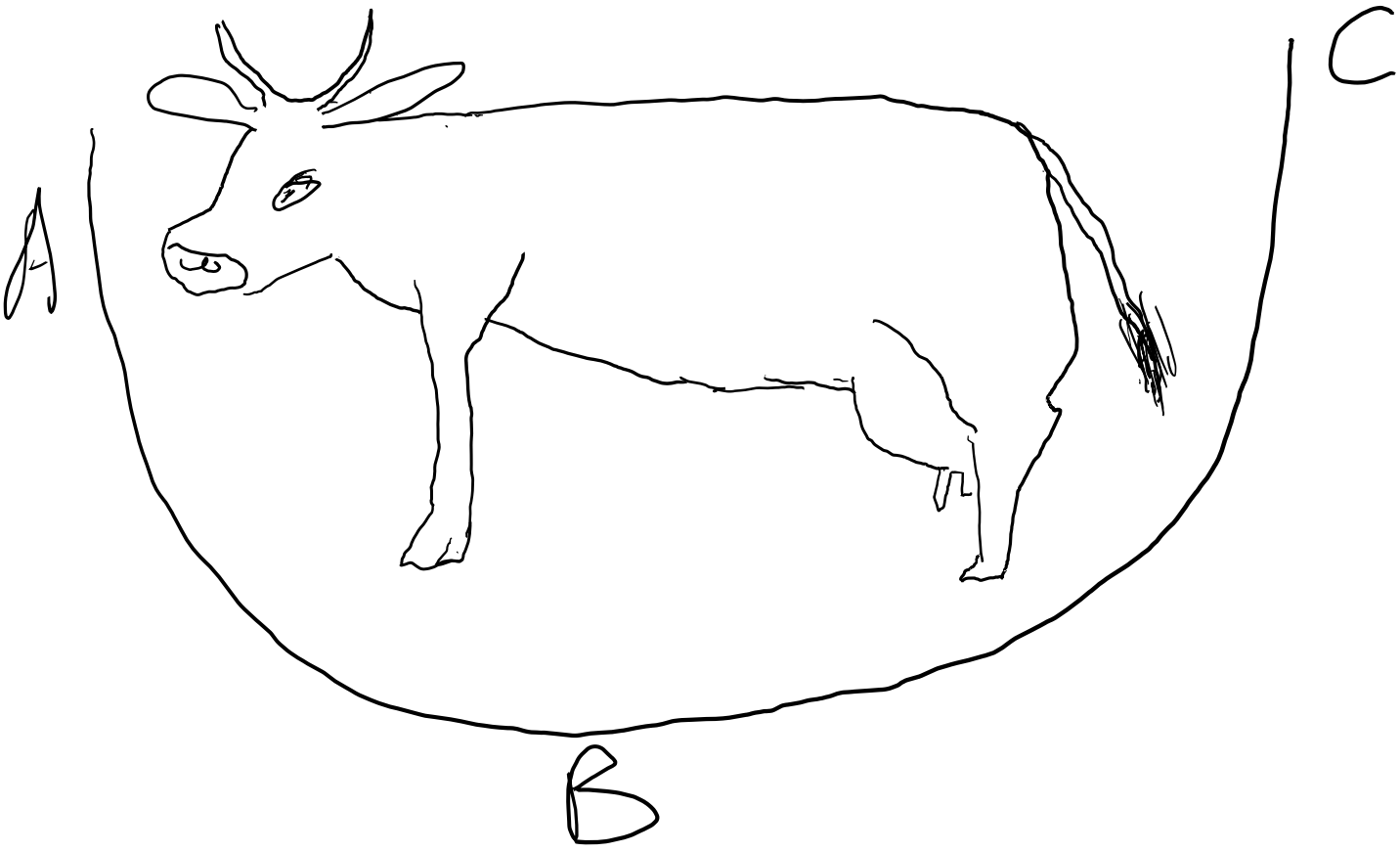
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19. The diagram below illustrates a person inspecting a dairy cow in a show Study it carefully and answer the questions



a) State two ideal features in each place that would be observed if the person was standing at

i. A **(1mk)**

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ii. B **(1mk)**

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iii. C **(1mk)**

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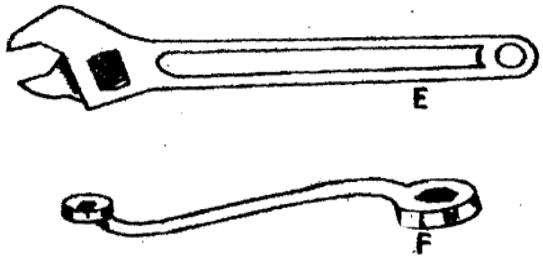
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b) Mark on the diagram with X and Y are you likely to observe the following types of ticks **(2mks)**

i.X

ii.Y

20. Study the diagrams of workshop tools shown below



(a) Identify the tools labeled **E** and **F** **(2mks)**

E: .....

F: .....

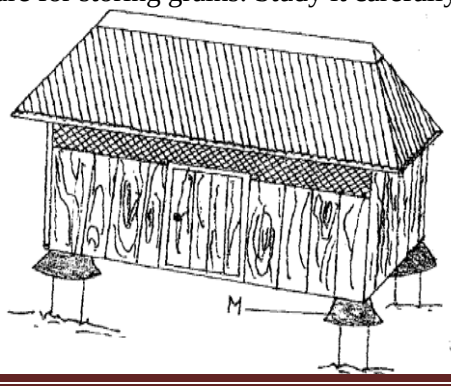
(b) What functional advantage does tool **E** have over tool **F?** **(1mk)**

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(c) Below is a diagram of a farm structure for storing grains. Study it carefully and answer the question that follows



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i.State the function of the part labeled **M** **(1mk)**

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ii. State **two** maintenance practices that should be carried out on the farm structure illustrated above in readiness for grain storage (**2mks)**

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iii. Give one disadvantage of the structure above **(1mk)**

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SECTION C: (40 MARKS)

Answer any two questions from this section Either 22,23 or 24.

22(a) i) Describe seven signs of ill-health in livestock **(7mks)**

(ii) Outline five uses of a crush in livestock rearing **(5mks)**

(iii) Describe the life cycle of a three-host tick **(8mks)**

23. (a) Describe the procedure of processing honey **(8mks)**

(b) Outline four harmful effects of lice in livestock **(4mks)**

(c) State five advantages of the top bar beehive **(5mks)**

(d) State three disadvantages of a log hive **(3mks)**

24.(a) Give four signs of heat in pigs **(4mks)**

(b) Explain six advantages of artificial insemination (A.I) in livestock breeding. **(6mks)**

(c) Give 5 categories of farm tools and equipment **(5mks)**

(d) Outline five differences between Bactrian camel and Dromedary camel **(5mks)**

End

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES TWO EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

TERM 2
BIOLOGY (QUESTION PAPER)

FORM 3

TIME 2 HOURS
PAPER 1

INSTRUCTIONS TO CANDIDATES.

1. Answer all questions in this paper in the spaces provided after each question.

2. Candidates should answer the questions in English.

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Questions	Maximum score	Candidate's score
1- 28	80	

1.(a) Explain why lysosomes are sometimes called 'suicidal bags' **(1mk)**

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(b) Why are lysosomes more frequent in the phagocytotic cells than in other cells? **(2mks)**

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2. Sugar was detected in the urine of a patient during a laboratory test.

(a) Name the type of sugar that was detected **(1mk)**

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(b) Name the hormone that is likely to have been deficient. **(1mk)**

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(c) What is the name given to the condition the person was suffering from? **(1mk)**

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3. Name the causative agent of the following human diseases. **(2mks)**

i) Pneumonia

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ii) Cholera

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4. Name **two** classes of phylum Arthropoda which have a cephalothorax. **(2mks)**

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5. State **three** adaptations of the proximal convoluted tubule to its function. **(3mks)**

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6. (a) What is single circulatory system? **(1mk)**

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(b) Name an organism which has single circulatory system. **(1mk)**

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(c) Name the opening to the chamber of the heart of an insect **(1mk)**

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7. (a) State the meaning of the following terms used in floral biology: **(3mks)**

(i) Incomplete flower

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(ii) Actinomorphic flower

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(iii) Zygomorphic flower

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8. State how alveolus of the lungs of a mammal is adapted to its function. **(2mks)**

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9.(a) Name **three** types of cells that carry out photosynthesis. **(3mks)**

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10. (a) What is environmental degradation? **(1mk)**

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(b) State **three** cases of environmental concern that have resulted from the increased human population in recent years **(3mks)**

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11. What is the role of vascular bundles in plant nutrition? **(3mks)**

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12. Enzyme + Substitute $\rightleftharpoons$ Enzyme + Product

From the equation above name **two** properties of enzymes exhibited in the equation **(2mks)**

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13. For each of the following types of cells state **one** way in which it is different from a typical animal cell. State the function of each type of cell.

a.Cell lining the trachea (windpipe) **(1mk)**

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b. Red blood cell **(2mks)**

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14. Give reasons why a woman excretes less urea when she becomes pregnant **(2mks)**

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15. State the functions of the following parts of the microscope **(2mks)**

a. (i) Condenser

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(ii) Mirror

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b. State the importance of the following in microscopy: **(2mks)**

(i) Cutting thin sections

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(ii) Staining

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16. State **two** ways in which protein are important to plant. **(2mks)**

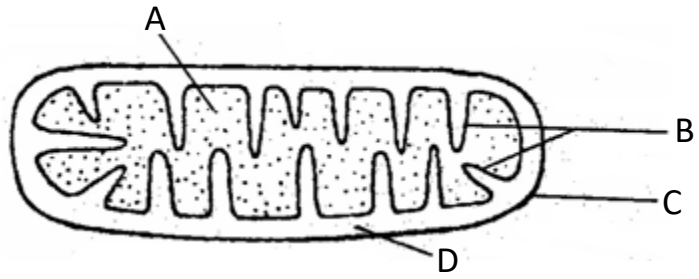
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17. The diagram **below** represents a cell organelle.



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

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(b) Name the part labeled **B**. **(1mk)**

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

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18. Explain why tropical forests do not have undergrowth **(2mks)**

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19. How is blood pressure generated and maintained in a vein? **(2mks)**

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20. What is the role of light energy in autotrophic nutrition in spermatophyte**?** **(2mks)**

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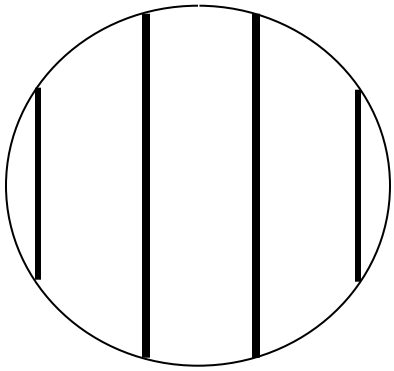
21. How is fur important to desert animal, other than in the regulation of their body temperature? **(1mk)**

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22. A form one student trying to estimate the size of onion cells observed the following on the microscope's field of view.



(a) Define the term resolving power. **(1mk)**

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(b) If the student counted 20 cells across the field of view calculate the size of one cell in micrometers. **(2mks)**

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23. Define peristalsis and state its importance in the nutrition of mammals. **(2mks)**

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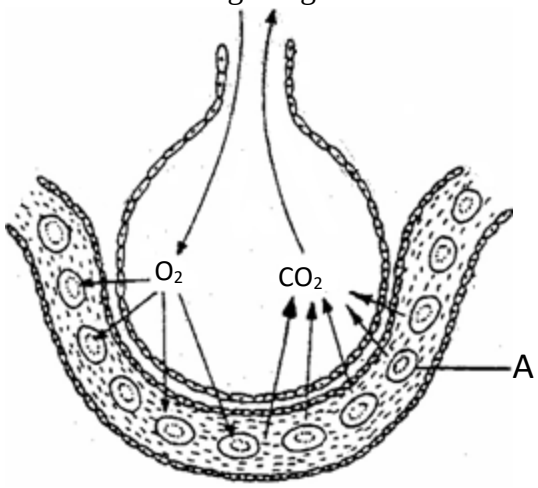
24. State the importance of cytoplasmic filaments in sieve tube elements. **(1mk)**

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25. The diagram **below** shows the exchange of gases in alveolus.



(a) State how the alveoli are adapted to their function. **(3mks)**

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(b) Name the cell labeled **A**. **(1mk)**

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26. What are the external conditions needed, by root hair cells, for the uptake of mineral salts ions from the soil? **(2mks)**

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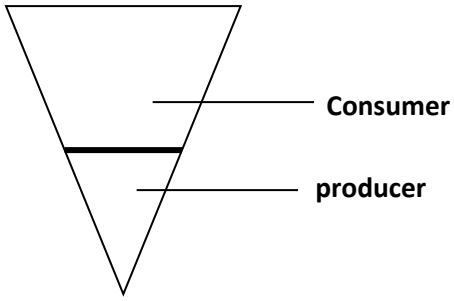
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27. The diagram below represents a pyramid of biomass derived from a certain ecosystem



(a) Suggest the type of ecosystem from which the pyramid was derived **(1mk)**

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(b) State the significance of short food chains in an ecosystem **(1mk)**

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28. Suggest two reasons for the appearance of glucose in the urine of a man. **(2mks)**

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29. Account for the thick wall and narrow lumen of an artery. **(2mks)**

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30. How do pathogens that enter the body through the respiratory tract in man prevented from causing diseases? **(1mk)**

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31. Where does the detoxification of ammonia take place in mammals? **(1mk)**

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32. Name the processes that take place in the grana of chloroplast. **(1mk)**

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33. Name the causative organism of the following diseases

(i) Malaria **(1mk)**

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(ii) Bilharzia **(1mk)**

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34. State two features in a kidney nephron that facilitates ultra-filtration. **(1mk)**

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EXCELLING STUDENTS FORM THREE END TERM 2 SERIES TWO EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

TERM 2
BIOLOGY (MARKING SCHEME)
FORM 3
TIME 2 HOURS
PAPER 2

INSTRUCTIONS

1.This paper has **TWO** sections: **A** and **B**

2.All Questions in Section **A** are **Compulsory**

3.Question **6** is Compulsory

4.Choose Either Question 7 **or** 8

5.Write your Answers in the Spaces Provided

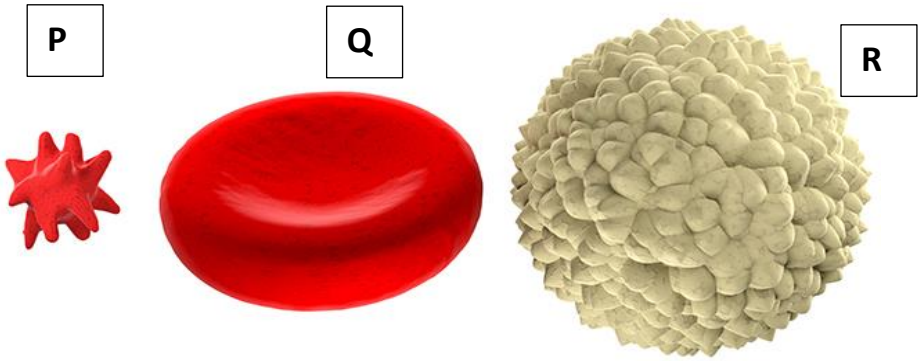
6.Wrong Spelling of Technical Terms shall be **Penalized**

Section	Question	Max Score	Student's Score
	1	8	
	2	8	
	3	8	
	4	8	
	5	8	
	6	20	
	7 or 8	20	
TOTAL SCORE		80	

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SECTION A (40 MARKS)

1. The diagrams shown below are of the three types of cells in human blood



a) Fill in the table below to show the function of cells **P** and **R** in the body **(2mks)**

Blood Cell	Function
P	
R	

b) **i)** State the site of formation of cell **Q**. **(1mk)**

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ii) Based on cell **Q**, explain why long distance athletes train in high altitude areas before a major race **(2mks)**

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c) State **ONE** mechanism by which the cell **R** undertakes its function **(1mk)**

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d) Name the **vitamin** and **mineral ion** required for the function achieved by cell **P** to be efficient **(2mks)**

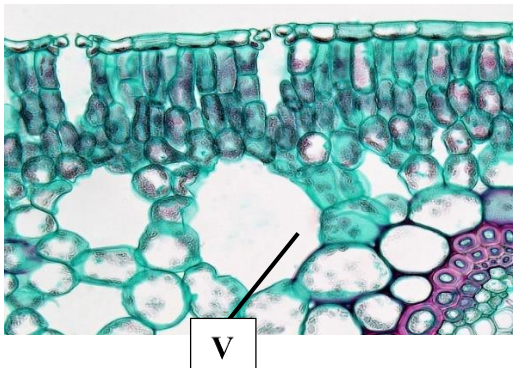
i) Vitamin ……

ii) Mineral ion ……..

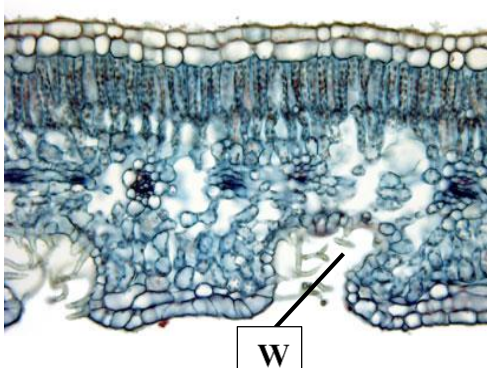
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2. The following are photomicrographs of cross sections of leaves obtained from plants growing in different habitats

Leaf A



Leaf B



a) State the habitat of the plant from which each leaf was obtained **(2mks)**

i) Leaf **A** ……..

ii) Leaf **B** ……..

b) Give **TWO** reasons for your answer in a i) above **(2mks)**

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c)How do the following parts adapt each of the two plants to their habitat

i) hair-like structures in part **W** in Leaf **B** **(1mk)**

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ii) Part **V** in Leaf **A** **(1mk)**

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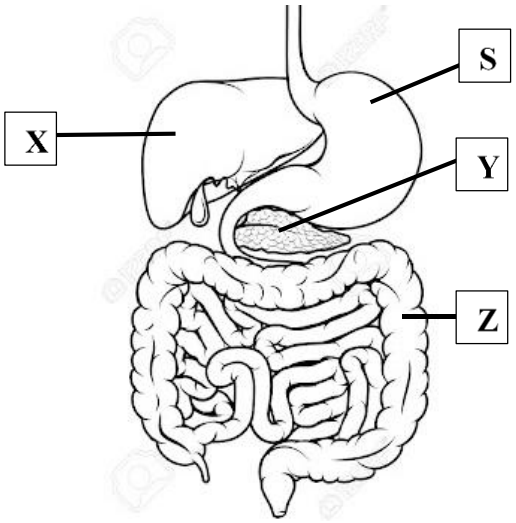
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d) What is the expected difference in these plants in terms of (2mks)

Feature	**Leaf A**	**Leaf B**
Size of Stomatal Opening		
Leaf Cuticle		

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3. Use the diagramatic representation of the alimentary canal shown to answer the questions that follow



a) Explain how part **X** is important in the process of digestion **(2mks)**

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b) Name **TWO** substances absorbed in the part labelled **Z** **(2mks)**

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c) Give **ONE** way in which **S** prevent auto-digestion of its lining by pepsin **(1mk)**

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d) Explain the role of part **Y** when sugar level rises beyond normal **(3mks)**

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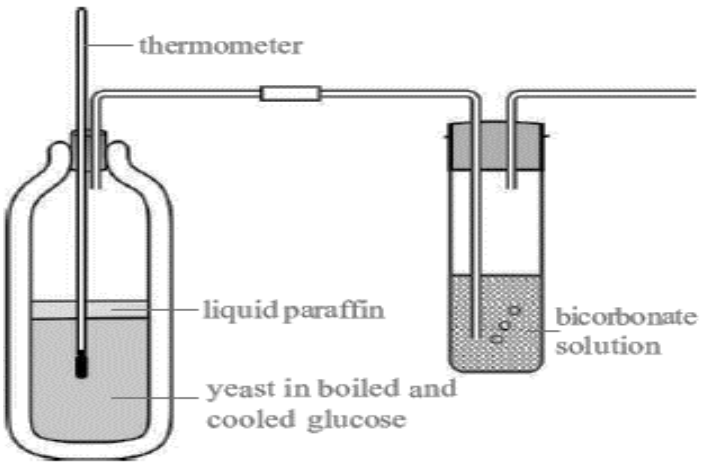
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4. The following set up was used to investigate a particular physiological process



a) i) State the expected result in the tube containing bicarbonate solution **(1mk)**

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ii) Account for the change expected in the thermometer reading **(2mks)**

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b) Why are the following done in the experiement? **(2mks)**

i) Boiling of the glucose

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ii) Using a vacuum flask and not a test tube

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c)Suggest a control experiment for the experiment shown above **(1mk)**

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d) Give **TWO** uses of the physiological process investigated in the food industry **(2mks)**

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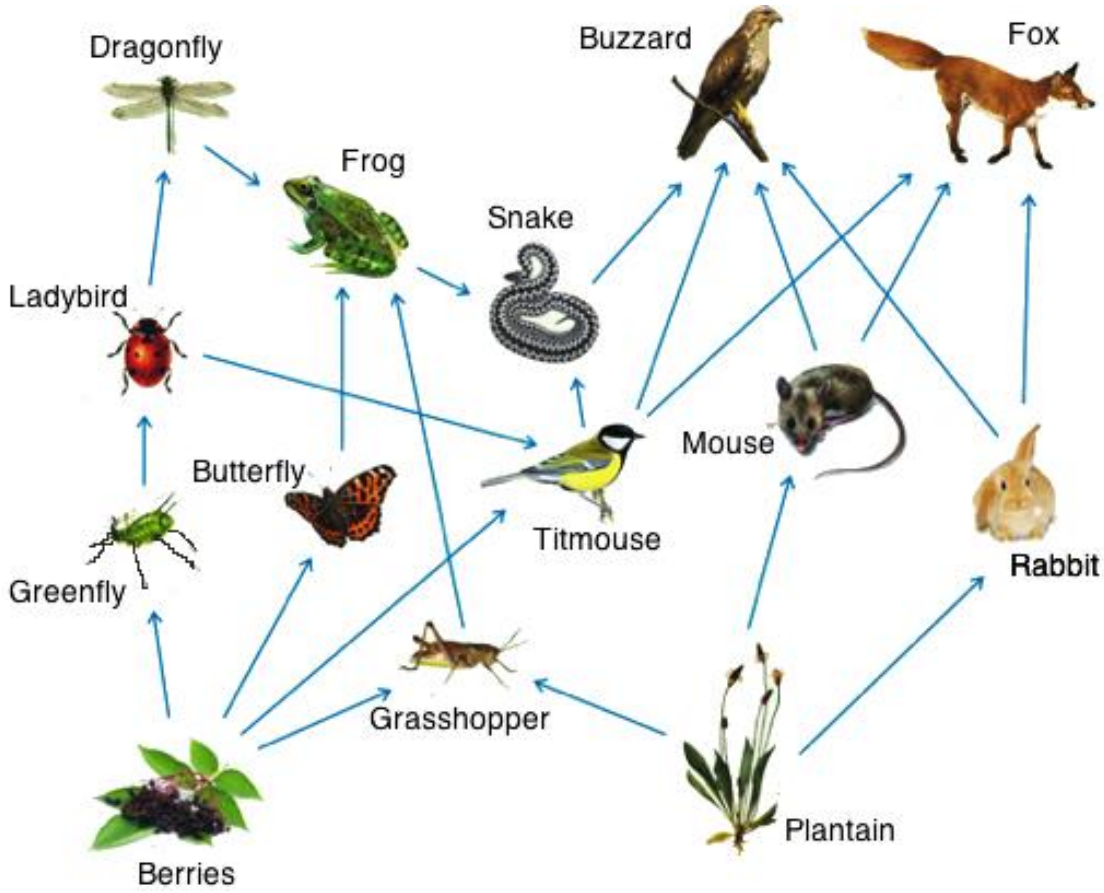
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5. The following is a feeding relationship found in a particular ecosystem



a) i) Name the original source of energy for the ecosystem shown above **(1mk)**

……

……

ii) What do the arrows in the sketch above represent? **(1mk)**

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b) Draw a food chain with: **(2mks)**

i) The Snake occupying the 3rd Energy level

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ii) The Snake as the Quartenary consumer

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c)Explain the following observations in the habitat above **(2mks)**

i) The population of plantain and berries is the highest

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ii) The population of buzzard is the lowest

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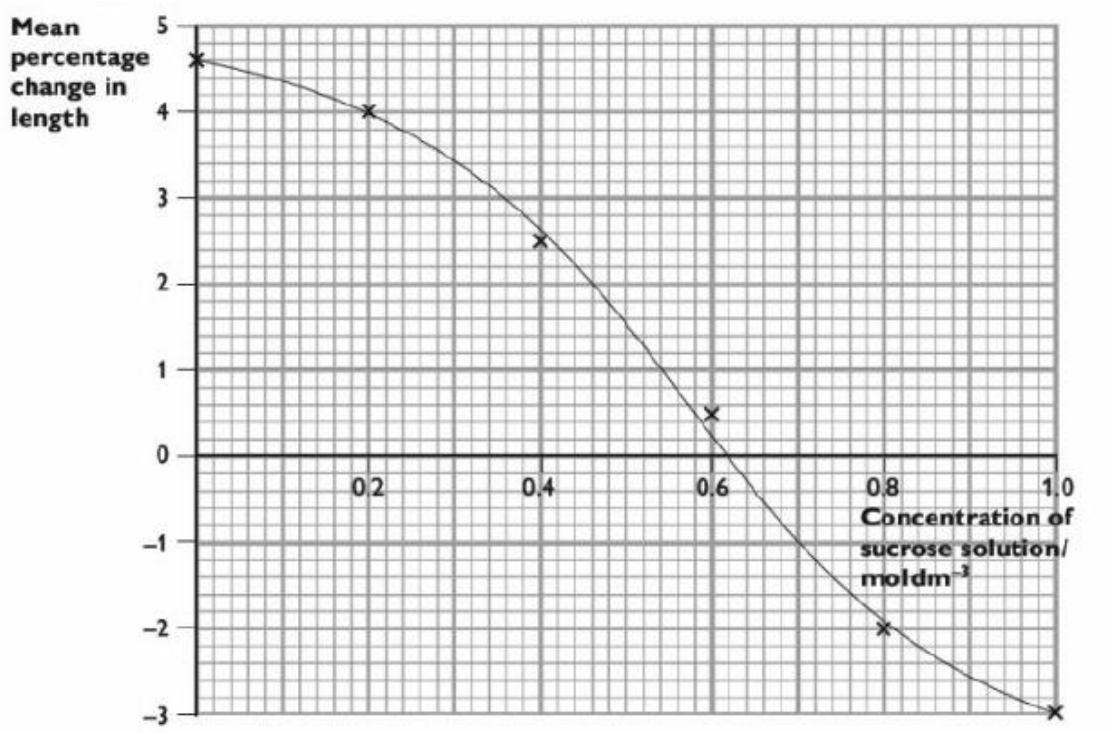
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d) **250** mice were captured, tagged and released. Later, **300** mice were captured, **150** of which had tags. Determine the population of mice in the habitat studied **(2mks)**

SECTION B (40MARKS)

6. In an experiment, pieces of peeled raw potato of equal lengths were placed in sucrose solution of different concentrations (expressed in moldm^{-3}). 30 minutes later, their lengths were measured and any change in length were recorded in percentage form and used to plot the graph shown below.



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

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ii) Give **THREE** ways animals benefit from the physiological process investigated

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b) Account for changes in the length of pieces of potato placed in sucrose solution of the following concentrations:

i) 0.2 $moldm^{-3}$ **(3mks)**

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ii) 1.0 $moldm^{-3}$ **(3mks)**

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c)From the graph, determine the concentration of the potato cell sap **(1mk)**

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d) i) Account for the observation made on a red blood cell if it was placed in sucrose solution concentration of 0.2 $moldm^{-3}$ **(3mks)**

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ii) Why would a potato cell and freshwater amoeba not experience same change as red blood cell when placed in sucrose concentration of 0.2 moldm^{-3}?

Potato cell **(1mk)**

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Freshwater Amoeba **(1mk)**

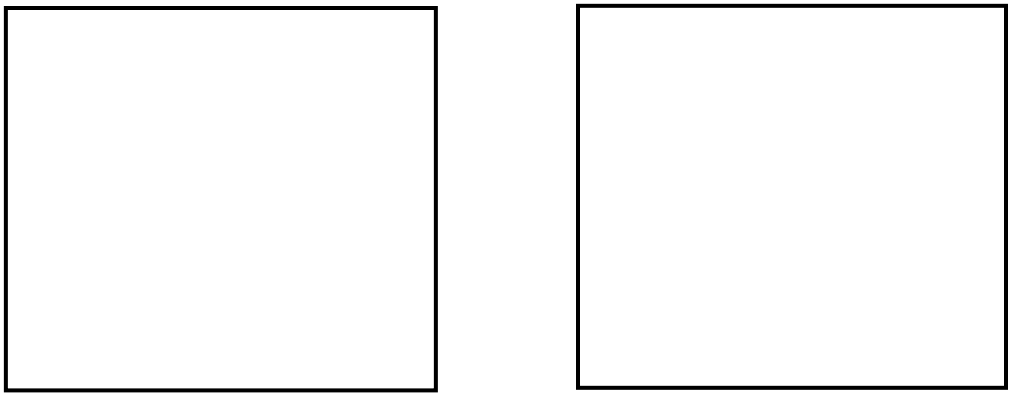
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e) i) Make a diagram of the expected appearance of a potato cell and a red blood cell if both were placed in sucrose solution concentration of 1.0 moldm^{-3}(2mks

Potato Cell **Red Blood Cell**



ii) Explain how the cells in potato piece placed in 1.0 moldm^{-3} sucrose solution concentration can be made to resume their normal shape and size **(1mk)**

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iii) Which term is used to refer to the process described in eii) above? **(1mk)**

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7. a) Explain how flowers are adapted to pollination by insects **(12mks)**

b) Describe the mechanism of exhalation in mammals **(8mks)**

8. a) Explain how the ileum is adapted to absorption of nutrients **(14mks)**

b) Describe what happens to excess amino acids in the body **(6mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES TWO EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

TERM 2
BIOLOGY

PAPER 3 (231/3)

FORM 3

TIME: $1\frac{3}{4}$ HOURS

INSTRUCTIONS TO CANDIDATES:

- .Write your **name, index number** and **school** in the spaces provided above.
- **Sign** and write the **date of examination** in the spaces provided above.
- You are required to spend the first 15 minutes of the $1\frac{3}{4}$ hours allowed for this paper reading the whole paper carefully before commencing your work.
- Answer **ALL** the questions in this paper in the spaces provided.
- Candidates **should** answer the questions in English.

FOR EXAMINER'S USE ONLY

Question	Maximum score	Candidate's score
1	16	
2	09	
3	15	
Total	40	

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1. You are provided with specimen **J**. Peel off the outer cover of the specimen and obtain eight cubes from it each measuring approximately $1cm^3$.

(a)(i) Place two cubes into a boiling tube and add hydrogen peroxide that is sufficient to completely submerge the cubes. Record your observation**.** **(1mk)**

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(ii) Name the biological process under investigation in this experiment. **(1mk)**

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(iii) Write a word equation for the reaction in (a)(i) above. **(1mk)**

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(b)(i) Crush two other cubes into small pieces using a mortar and pestle. Place the pieces into a boiling tube and add hydrogen peroxide that is sufficient to completely submerge the cubes. Record your observation in relation to that in (a)(i) above. **(1mk)**

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(ii) Account for your observation in (b)(i) above. **(2mks)**

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(c)(i) Place two other cubes into a boiling tube and add 5 ml of water then boil for two minutes. Remove the cubes and place them into an empty boiling tube. Add hydrogen peroxide that is sufficient to completely submerge the cubes. Record your observation. **(1mk)**

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(ii) Account for your observation in (c)(i) above. **(2mks)**

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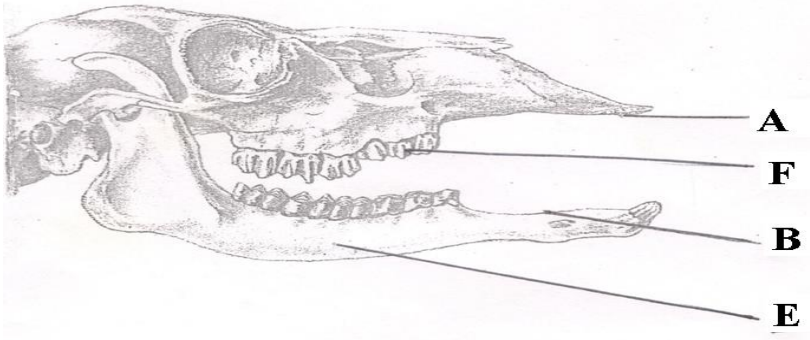
(d) Place two other cubes into a mortar and crush them using a pestle. Add 4ml of water and stir using the pestle and obtain an extract. Using the reagents provided, test for the food substances in the extract obtained. Record the test, procedure, observation and conclusion in the table below. **(7mks)**

Test	Procedure	Observation	Conclusion

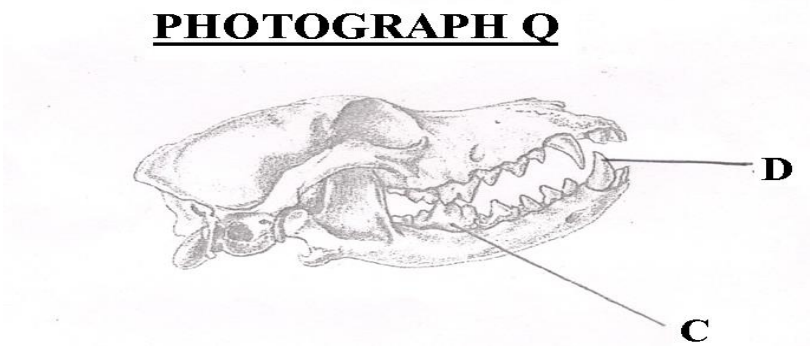
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ıu are provided with **photographs P** and **Q** of skulls of animals belonging to the e phylum and class. Study them carefully and answer the questions that follow.

PHOTOGRAPH P



PHOTOGRAPH Q



(a) (i) Name the class to which the animals belong. (1mar

.....

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

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(b)(i) State the diet of the animals whose skull is shown in photograph P. (1mar

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(ii) Give **one** reason for your answer in (b)(i) above. (1mar

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(c) Identify the parts labelled **C, E** and **F**. (3mar

C.....

E.....

F.....

(d)State the functions of parts labeled **A** and **B**. (2mark

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3. You are provided with specimens labelled **P, Q, R** and **S** which were obtained from different plants.

(a)(i) Using observable features only, state **three** similarities between specimens **P** and **Q.** **(3mks)**

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(ii) Using observable features only, state **four** differences between specimens **P** and **Q.** **(4mks)**

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(b) Suggest the habitats of specimens **Q** and **R**. **(2mks)**

(i) Habitat of **Q**……..

(ii) Habitat of **R**……..

(c) Name the subdivision to which the specimens **P, Q, R** and **S** belong. **(1mk)**

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(d) How is

(i) specimen **Q** adapted for photosynthesis? **(2mks)**

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(ii) specimen **R** adapted to conservation of water? **(2mks)**

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(iii) specimen **S** adapted to protection? **(1mk)**

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES TWO EXAMS

NAME: …….

SHOOOL: …….

ADM NO: ……..……. SIGN……..… DATE: ……..

TERM 2
BUSINESS STUDIES 565/1

FORM THREE (3)

TIME 2 Hours

INSTRUCTIONS TO CANDIDATES
- Answer all questions in the spaces provided.

FOR EXAMINERS USE ONLY

QUESTION	1	2	3	4	5	6	7	8	9	10
MARKS										

QUESTION	11	12	13	14	15	16	17	18	19	20	21	22
MARKS												

TOTAL MARKS	

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1. Outline four ways in which the business is expected to be socially responsible to the employees. **(4mks)**

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2. What do you understand by the following terms?

a) Free goods **(1mk)**

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b) Producer goods **(1mk)**

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c) Public goods **(1mk)**

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d) Non-material goods **(1mk)**

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3. Outline four ways in which filling of documents facilitates smooth running of an office. **(4mks)**

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4. Outline four circumstances under which a pro forma invoice may be used. **(4mks)**

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5. Draw four differences between a quasi partner and a general partner. **(4mks)**

Quasi Partner	General Partner
a)	a)
b)	b)
c)	c)
d)	d)

6. State four advantages of cart transport**.** **(4mks)**

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7. Highlight four causes of breakdown in communication. **(4mks)**

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8. Outline four features of a bonded warehouse. **(4mks)**

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9. Name the factor that each of the following resources relate to**.** **(4mks)**

Resource	Factor of production
a) Manager	a)
b) Vehicle	b)
c) Owner	c)
d) Water	d)

10. Highlight four circumstances under which a co-operative society may be dissolved. **(4mks)**

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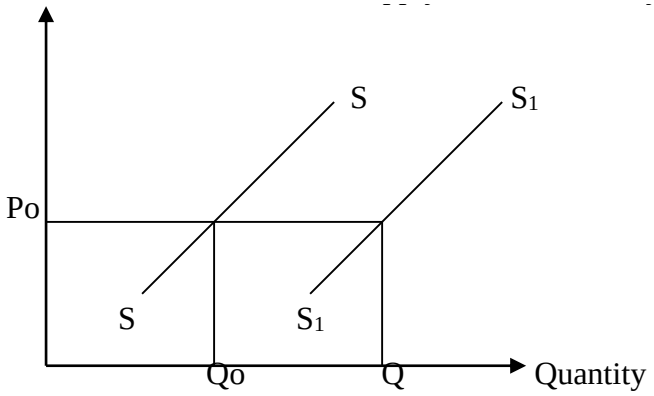
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11. The figure below shows an increase in supply for a commodity from SS to S_1S_1.



State four possible causes that have led to this situation. **(4mks)**

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12. Highlight four problems associated with the output approach in the measurement of national income. **(4mks)**

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13. State four role played by intermediaries in the distribution channel. **(4mks)**

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14. State four factors that determine fertility rate in a country**.** **(4mks)**

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15. Mention four types of unemployment. **(4mks)**

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16. Outline four features of a monopoly. **(4mks)**

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17. Give 4 gaps which exist in the market that an entrepreneur can use to identify a viable business opportunity. **(4mks).**

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18. Apart from demand and supply forces outline four other methods of price determination. **(4mks)**

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19. State four advantages of mail order service to the customer. **(4mks)**

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20. Give 4 reasons why a person may prefer to run a business as a sole proprietor. **(4mks)**

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21. A potential manufacturing firm of domestic products would like to introduce new products in the market. Explain five factors that would influence their decision on what goods to produce. **(10mks)**

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22. Describe the procedure that should be followed when taking an insurance policy **(10mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES TWO EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

BUSINESS STUDIES,
PAPER 2
FORM 3, TERM 2
TIME: $2^1/_2$hrs

INSTRUCTIONS:
Attempt any five questions from this paper.

1. a) Discuss five factors that may influence entrepreneurial practice positively in the country. **(10mks)**
b) Explain five principals of insurance. **(10mks)**

2. a) Explain five benefits of matatu reforms in transport sector. **(10mks)**
b) Using a well labeled diagram, differentiate between shift in demand curve and movement along the demand curve. **(10mks)**

3. a) Muema is planning to construct a warehouse for renting. Explain five measures that he may take to ensure its smooth operation**.** **(10mks)**
b) Explain five methods used to distribute imported manufactured goods. **(10mks)**

4. a) Outline five measures that the Kenya government may take to reduce unemployment. **(10mks)**
b) Explain five measures that the government may take to increase supply of maize in the market. **(10mks)**

5. a) Describe any five types of business activities. **(10mks)**

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5b) Munguti, who runs a retail store, had the following assets and liabilitie as at 31st March 2016.

Premises	Sh. 100,000
Debtors	Sh. 4,000
Creditors	Sh. 16,000
Stock	Sh. 2,000
Cash at bank	Sh. 60,000
Cash in hand	Sh. 20,000
Loan from AFC	Sh. 50,000

During the month of April 2015, the following transactions took place
2015
April 1st sold goods at cost Sh. 2000cash
April 2nd Paid creditors Sh. 8000 cash
April 10th received Sh. 2000 from his debtors in cash
April 15th Bought a motor van for Sh. 35,00 paying by cheque
April 25th purchased goods worth Sh. 15000 and paid by cheque
Required: Prepare a balance sheet as at 25th April 2015. **(10mks)**

6. a) Describe the following terms as used in accounting.

i) Assets **(2mks)**
ii) Credit transactions. **(2mks)**
iii) Networth of a Business. **(2mks)**
iv) Ledger. **(2mks)**

b) Muinamo started a business on 1st March 2012 with a capital of 240,000 consisting of Sh. 130,00 in bank, Sh. 50,000 in cash and furniture worth Sh. 60,00. Transactions for the first week were as follows;

2012: March 2nd purchased a typewriter by cheque Sh. 20,000
March 3rd bought delivery van for Sh. 450,000 from Mwangaza motors on Credit
March 4th Bought stock worth Sh. 15,000 for cash
March 5th Purchased goods worth Sh. 18,000 from Kinyua on credit
March 6th sold goods worth Sh. 30,000 on credit to Menge
March 7th paid 12,000 to Kinyua by Cheque
March 7th received Sh. 4,000 for rent by cheque

Required: Record the above information in the relevant ledger accounts and balance them off on 7th March 2012. **(10mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES TWO EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

CHEMISTRY (233/1)

PAPER 1

FORM THREE (3)

Time: 2 Hours

INSTRUCTIONS TO CANDIDATES

a) Write your name, class and house in the spaces provided above

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

c) Answer **ALL** the questions in the spaces provided in the question paper.

d) KNEC mathematical tables and electronic calculators may be used.

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

f) This paper consists of 11 printed pages

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

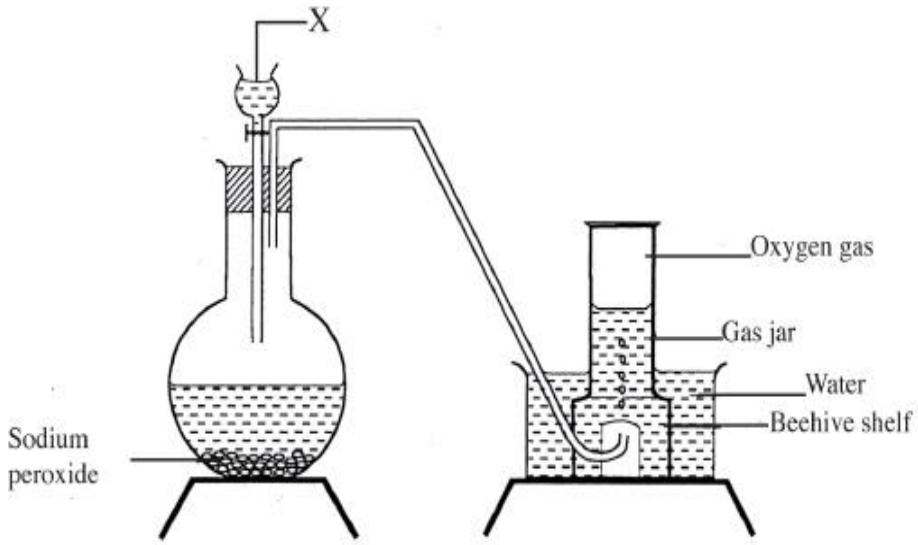
h) Candidates should answer the questions in English.

For Examiner's Use Only

Question	Maximum Score	Candidate's Score
1 – 16	80	

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1) The set up below can be used to prepare oxygen gas. Study it and answer the questions that follow:



a) Identify ***X***. _____ **(1mk)**

b) What property of oxygen makes it possible for it to be collected as shown in the above set-up? **(1mk)**

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c) State **<u>two</u>** uses of ***oxygen gas***. **(1mk)**

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2) Write equations to show the effect of heat on each of the following:

a) ***Sodium hydrogen carbonate*** **(1mk)**

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b) ***Silver nitrate*** **(1mk)**

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c) ***Anhydrous Iron (II) Sulphate*** **(1mk)**

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3) Describe an experimental procedure that can be used to ***extract oil from nut seeds***. **(2mks)**

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4) In terms of ***structure and bonding***, explain the following observations:

a) The ***melting point*** of Aluminium is higher than that of Sodium **(1½mks)**

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b) The ***melting point*** of Chlorine is lower than that of Sulphur. **(1½mks)**

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5) a) What would be observed if Sulphur (IV) oxide is bubbled into a solution of acidified potassium manganate (VII)? **(1mk)**

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b) In an experiment, Sulphur (IV) oxide was dissolved in water to form solution **L**.

i) What would be observed if a few drops of barium nitrate solution were immediately added to solution **L**? **(1mk)**

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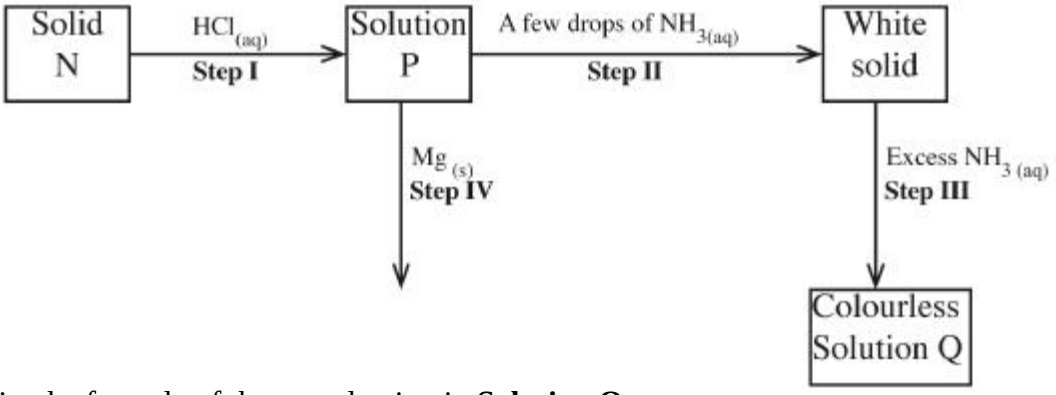
ii) Write an ***ionic equation*** for the reaction that occurred between solution **L** and aqueous Barium nitrate in (b) (i) above. **(1mk)**

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6) The scheme below shows a reaction sequence starting with Solid **N**. Study it and answer the questions that follow.



a) Write the formula of the complex ion in **Solution Q**. **(1mk)**

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b)Write a ***stoichiometric equation*** for the reaction in **Step (IV).** **(1mk)**

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7) a) State ***Charles' Law***. **(1mk)**

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b)A certain mass of gas occupies **146 dm^3** at **291K** and **98.31kPa**. What will be its temperature if its volume is reduced to **133 dm^3** at **101.325kPa**? **(2mks)**

8) Diamond and graphite are ***allotropes*** of carbon.

a) What is meant by the term ***allotrope***? **(1mk)**

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b) Explain why graphite can be used as a lubricant while diamond cannot. **(2mks)**

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9) On heating a pale green solid **K**, Carbon (IV) oxide gas and a black solid **M** were formed. On reacting **K** with dilute Hydrochloric acid, Carbon (IV) oxide gas and a green solution **S** were formed. When excess aqueous ammonia was added to solution **S**, a deep blue solution was formed.

a) Identify the ***cation*** in Solid **K**. **(1mk)**

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b) Identify two ***anions*** in Solution **S**. **(2mks)**

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10) A student investigated the effect of an electric current on substances by passing a current through some substances. The student used inert electrodes, and a bulb in the circuit. The table below shows the substances used and their states.

Experiment	Substance	State
1	Potassium carbonate	Solid
2	Copper (II) sulphate	Solution
3	Sugar	Solution
4	Lead (II) iodide	Molten

a) In which experiments did the bulb **not** light? **(1mk)**

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b) Explain your answer in (a) above. **(2mks)**

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11) Element **J** has two isotopes namely **J-39** and **J-40**. It's relative atomic mass is **39.07**. Calculate the percentage relative abundance of each isotope. **(3mks)**

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12) Starting with Zinc carbonate describe how would you prepare hydrated Zinc sulphate. **(4mks)**

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13) A Form 3 student was provided with the following solutions; Study the information and answer the questions that follow.Solution **A** was made by dissolving **10.6g** of a metal carbonate, $\mathbf{X_2CO_3}$ in distilled water and made up to 1 litre of the solution. Solution **B** is a **0.25M** of Hydrochloric acid.**20.0 $\mathbf{cm^3}$** portions of solution **A** were titrated with solution **B** from the burette and the following results were obtained.

Volume of the pipette used _____ cm^3 (Solution **A**) **(1mk)**

Titration	1	2	3
Final burette reading (cm^3)	16.6	32.6	
Initial burette reading (cm^3)			
Volume of Solution B (cm^3)	16.6	16.0	16.0

a) Complete the table above **(4mks)**

b) Calculate the average volume of solution B used. **(1mk)**

c)Name a suitable indicator for this reaction. **(1mk)**

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d) Write a stoichiometric equation for the reaction taking place. **(1mk)**

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e) i) Calculate the moles of Solution **B** used. **(2mks)**

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ii) Determine the number of moles of solution **A** used in the reaction. **(2mks)**

iii) Calculate the concentration of Solution **A** in **moles/litre**. **(1mk)**

iv) Calculate the **Relative Atomic mass** of **X** in Solution $\mathbf{X_2CO_3}$ (H=1; C = 12; O = 16) **(2mks)**

14) The grid below represents part of the periodic table. Study it and answer the questions that follow. The letters do not represent the actual symbols of elements.

				N	P	T		
M								
R								

i) Select a letter which represents an element that loses electrons most readily. Give a reason for your answer. **(2mks)**

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ii) Explain why the atomic radius of P is found to be smaller than that of N. **(2mks)**

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b) Use the information in the table below to answer the questions that follow. The letters are not the symbols of the elements.

Element	State of oxide at room temperature	Type of oxide	Bonding in oxide
U	Solid	Acidic	Covalent
W	Solid	Basic	Ionic
X	Liquid	Neutral	Covalent
Y	Gas	Neutral	Covalent

Identify a letter which represents an element in the table that could be Calcium, Carbon or Sulphur. Give a reason in each case.

i) Calcium _____ **(1mk)**

Reason: _____ **(1mk)**

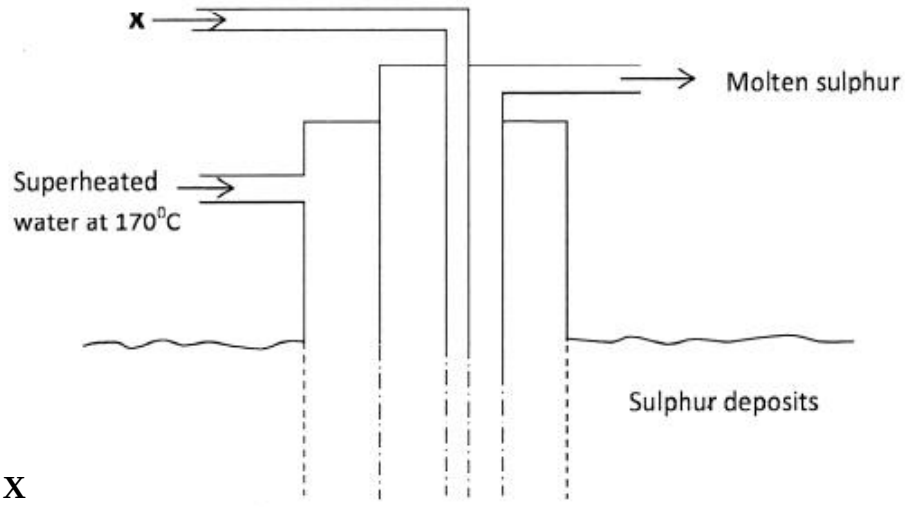
ii)Carbon _____ **(1mk)**

Reason: _____ **(1mk)**

iii) Sulphur _____ **(1mk)**

Reason: _____ **(1mk)**

15) a) The diagram below shows the Frasch process used for extraction of Sulphur. Use it to answer the questions that follow.



i) Identify **X** **(1mk)**

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ii) Why is it necessary to use superheated water in this process? **(1mk)**

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iii) State **two** physical properties of Sulphur that makes it possible for it to be extracted by this method. **(2mks)**

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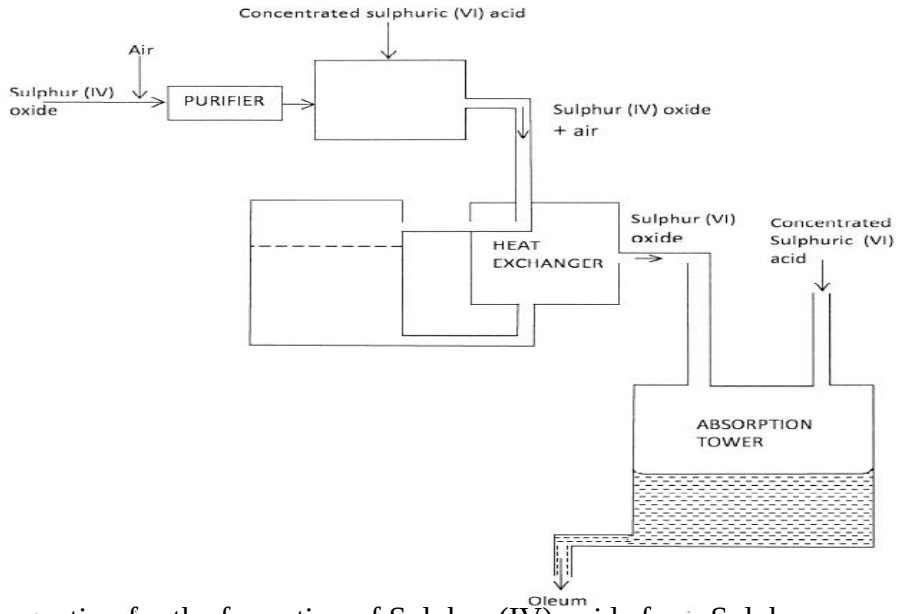
iv) Which allotrope of Sulphur:

I) is a stable at room temperature? _____ **(1mk)**

II) has prismatic crystals? _____ **(1mk)**

III) has higher density? _____ **(1mk)**

b) The diagram below shows part of the processes in the manufacture of Sulphuric (VI) acid. Study it and answer the questions that follow:



i) Write an equation for the formation of Sulphur (IV) oxide from Sulphur. **(1mk)**

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ii) What is the role of the concentrated Sulphuric (VI) acid in chamber **A**? **(1mk)**

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iii) Name **two** catalysts that can be used in the catalytic chamber **B**. **(2mks)**

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iv) State **<u>two</u>** roles of the heat exchanger **(2mks)**

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c) Explain **<u>one</u>** way in which Sulphur (IV) oxide is a pollutant. **(1mk)**

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d) What observation will be made when a few drops of concentrated Sulphuric (VI) acid are added to crystals of sugar? Explain your answer. **(2mks)**

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16) A sample of **2.34 g** of a metal P displaced **3.20 g** of Copper from excess aqueous Copper (II) Sulphate (P = 69; Cu = 64)

a) Determine the charge on an ion of metal P. **(3mks)**

b) Write an ionic equation for the reaction. **(1mk)**

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EXCELLING STUDENTS FORM THREE

END TERM 2 SERIES TWO EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

Term 2
CHEMISTRY (233/2)
PAPER 2
FORM THREE (3)
Time: 2 Hours

Instructions to Candidates

- Write your **Name, Class** and **Adm no** in the spaces provided above.
- Answer all the questions in the spaces provided
- Mathematical table and electronic calculator may be used
- All working must be clearly shown where necessary.

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Question	Maximum score	Candidates score
1	11	
2	13	
3	11	
4	11	
5	10	
6	13	
7	11	
TOTAL	80	

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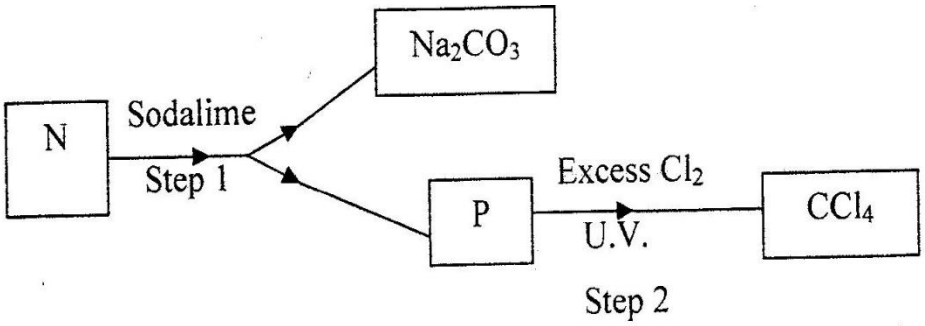
1. (a) Draw structures and **write molecular formula** the of the following compounds

(i) 2 – bromo – 4 – methylpentane **(2mks)**

(ii) 3 – methylheptane. **(2mks)**

(b) Draw and **name** all possible isomers of C_5H_{12} **(3mks)**

(c) The set up Study the flow chart below and answer the questions that follow



(a) Identify **N** and **P** **(2mks)**

N ……

P ……

(b) Write a balanced equation for the preparation of gas **P**. **(1mk)**

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(c) What is the function of calcium oxide in soda lime? **(1mk)**

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2.a) Study the table below and complete it. **(P^{3+} & Q^{2-})** are not the actual symbols of the ions. **(2mks)**

Ion	Number of protons	Number of neutrons	Mass number	Electron arrangement
P^{3+}		14		2.8
Q^{2-}	16		32	

b) You are provided with information of elements in the same period. Study it and answer the questions that follow.

Element	Ionic radius (nm)	Atomic radius (nm)
X	0.102	0.136
Y	0.134	0.099
Z	0.202	0.181
W	0.170	0.175
Q	0.076	0.065

(i) Which is the most reactive non-metal? Explain. **(2mks)**

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(ii) Which elements are metals? **(1mk)**

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c) (i) Write the chemical formula for the compound formed when element **Q** which is in group VI and sodium metal react. **(1mk)**

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(ii) What type of bond & structure is formed in **c (i)** above. **(2mks)**

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(iii) Does the compound in **c (ii)** above conduct electricity? Explain**.** **(2mks)**

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c) Element **Z** has atomic number 6.

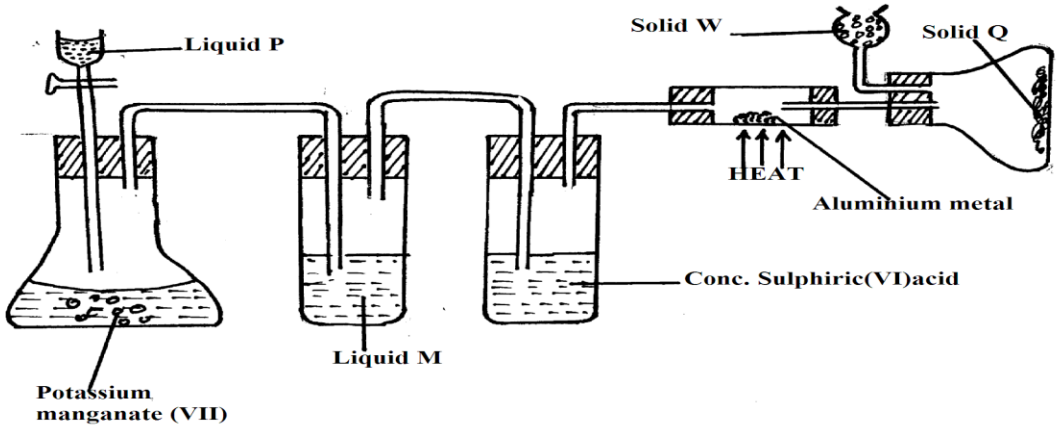
(i) Draw dot (.) and cross (x) diagram of its most stable oxide. **(2mks)**

(ii) State the nature of the oxide formed in **c (i)** above. **(1mk)**

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3.(a) Set up below shows laboratory preparation and properties of chlorine gas. Use it to answer the questions that follow.



(i) Name liquid: **(2mks)**

P ……

M ……

(ii) What is the function of concentrated sulphuric (VI) acid in the set-up? **(1mk)**

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(iii) Suggest the most suitable reagent that can be used as solid **W**. **(1mk)**

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(iv) State two roles of solid **W** in the set-up. **(2mks)**

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(v) State why solid **Q** collect further away from heated aluminium metal **(1mk)**

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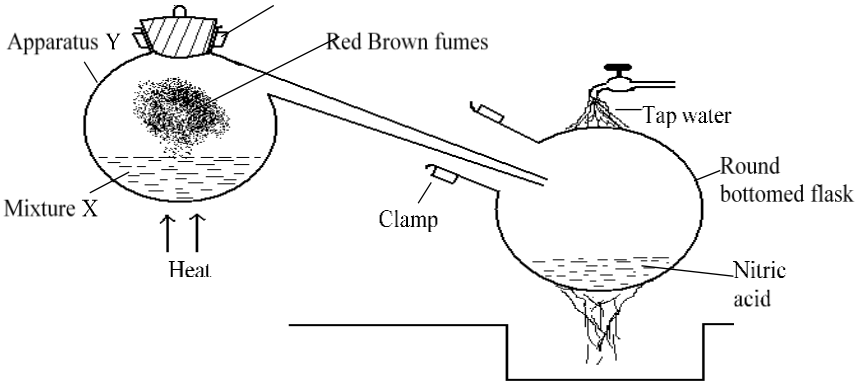
(vi) Write an equation that took place in combustion tube to form solid **Q**. **(1mk)**

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(vi) In the reaction above, 0.645g of aluminium metal reacted completely with 900cm^3 of chlorine gas at room temperature. Determine the molecular formula of solid Q, given that its relative formula mass is 267 (Al = 27.0, Cl = 35.5, molar volume of gas at r.t.p is 24.0 litres) **(3mks)**

4.a) A group of form three students from Kenya High School used the set below to prepare nitric (V) acid in the laboratory. Use it to answer the questions that follow.



i. Name the apparatus **Y**. **(1mk)**

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ii. Name the *reagents* in mixture **X**. **(1mk)**

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iii. Write an equation for the reaction which takes place in apparatus **Y**. **(1mk)**

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iv. State the property of concentrated sulphuric (VI) acid shown by the reaction in (b) (ii) above. **(1mk)**

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v. Explain why the apparatus for this reaction is all glass. **(1mk)**

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vi. Explain why nitric (v) acid is stored in brown bottles. **(1mk)**

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vii. State two uses for nitric (v) acid. **(2mks)**

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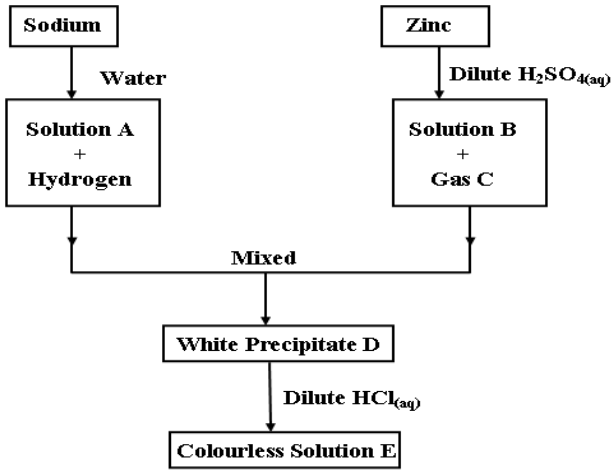
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b. A factory uses nitric (v) acid and ammonia gas as the only reactants for the preparation of ammonium nitrate. If the daily production of the ammonium nitrate is 4800kg, calculate the mass of ammonia gas used daily. (N=14.0, O = 16.0 H= 1.0) **(3mks)**

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5. The scheme below shows the preparation of a certain salt. Study it and answer the questions that follow



a) Give the name and the formula of the following;

i) Solution A **(1mk)**

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ii) Precipitate D **(1mk)**

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b) Give the equation for the

i) Formation of B and gas C **(1mk)**

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ii) Formation of colourless solution E **(1mk)**

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c) How can gas C be tested? **(1mk)**

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d) Give the observations made when sodium reacts with water **(2mks)**

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e) Explain how you can obtain from solution E.

i) A hydrated salt **(1mk)**

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ii) Anhydrous salt **(1mk)**

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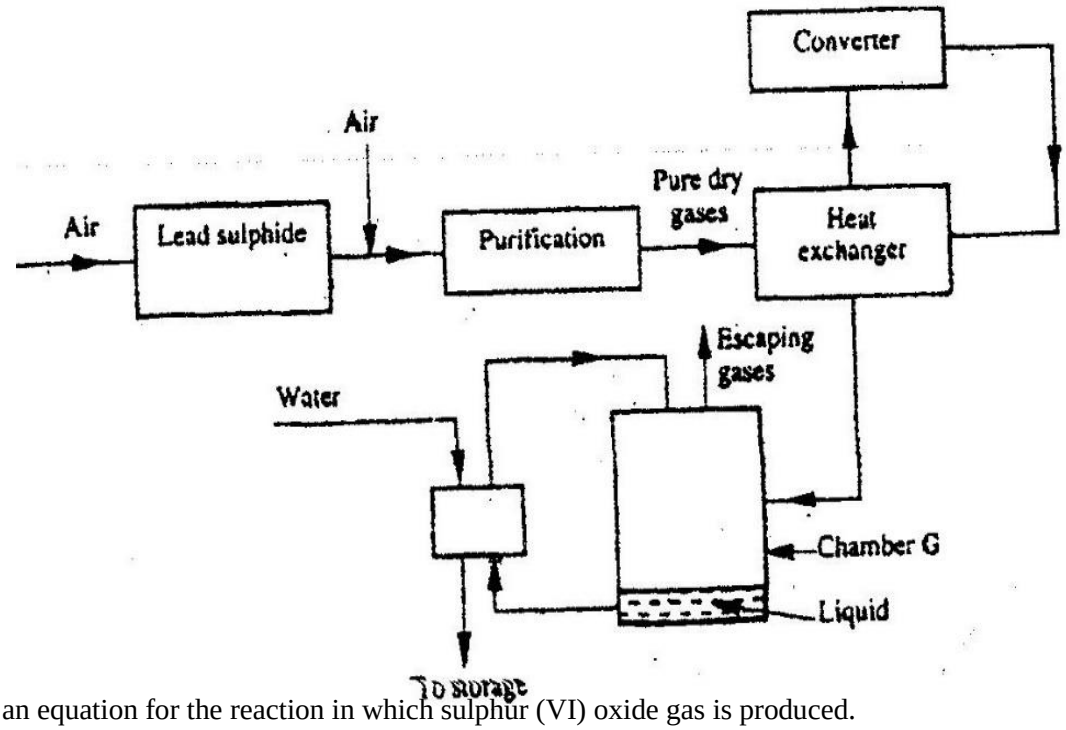
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f) Using an equation, give another method of preparing the same salt. **(1mk)**

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6. a) The diagram below shows some processes that take place during the industrial manufacture of sulphuric (VI) acid.



(i) Write an equation for the reaction in which sulphur (VI) oxide gas is produced. **(1mk)**

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(ii) Name one impurity removed in the contact process. **(1mk)**

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(iii) Write an equation that takes place in chamber G. **(1mk)**

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b) (i) Name;

I. Two catalyst used in contact process. **(2mks)**

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II. The gases that escaped into the environment. **(1mk)**

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III. State the harmful effect on the environment of one of the gases. Named in (i) II above **(1mk)**

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c) Give a reason why sulphur (IV) oxide is **not** dissolved directly in water to form the acid. **(1mk)**

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d)(i) Complete the table below to show the observations made when concentrated sulphuric (VI) acid is added to the substances shown. **(2mks)**

Substance	Observation
Copper turnings	
Hydrated copper (II) sulphate	

(ii) Give reasons for the observations made using:

I Copper turnings **(1mk)**

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II Hydrated copper (II) sulphate **(1mk)**

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(c) Name one fertilizer made from sulphuric acid. **(1mk)**

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7. (a) Describe a process by which Nitrogen is obtained from air on a large scale**.** **(4mks)**

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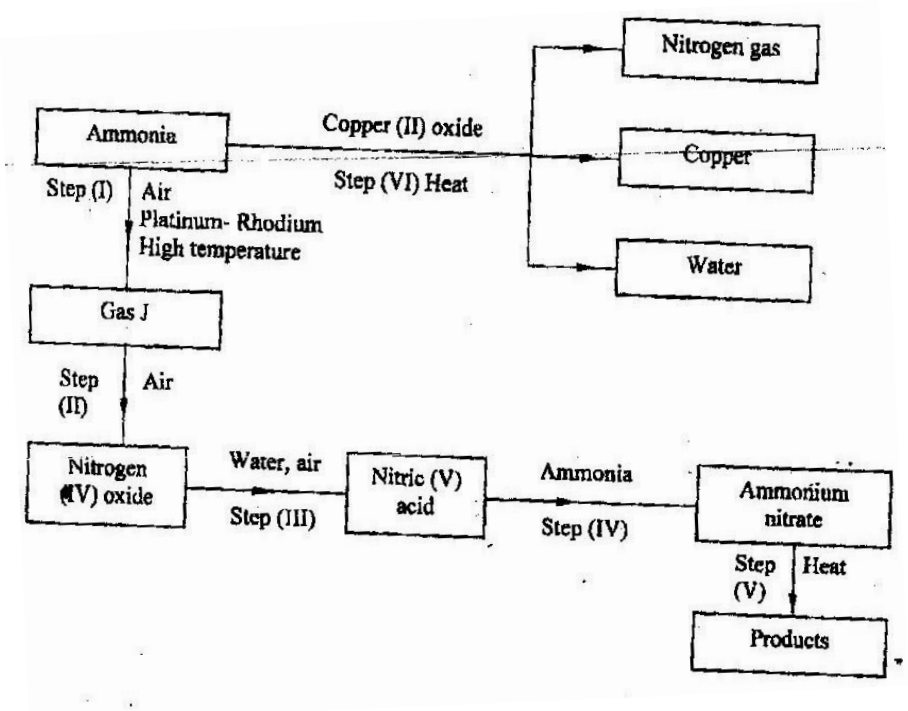
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(b) Study the flow chart below and answer the questions that follow.



(i) Identify gas **J**. **(1mk)**

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(ii) Write the equations for the reaction that occurs in; **(2mks)**

I Step (V)

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II Step VI

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(iii) Give a reason why excess air was used in **step I.** **(1mk)**

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(iv) Give one use of ammonium nitrate. **(1mk)**

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(c) One of the pollutants from the exhaust fumes of vehicles is nitrogen (IV) oxide. Explain how nitrogen (IV) oxide, is produced from the internal combustion engines**.** **(2mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES TWO EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

Term 2
CHEMISTRY (233/3)
PAPER 3
FORM THREE (3)
Time: 2¼ Hours

Instruction to Candidates:

a) Write your name and class in the spaces provided on this page above

b) Sign and write the date of examination in the spaces on this page above.

c) Answer ALL the questions in the spaces provided after EACH question in the question-paper.

d) You are NOT allowed to start working with the apparatus for the first 15minutes of the 2¼ hours allowed for this paper. This time is to enable you read the question-paper and make sure you have ALL the chemicals and apparatus that you may need.

e) Mathematical tables and silent electronic calculator may be used.

f) ALL working MUST be clearly shown where necessary.

g) This paper consists of 6 printed pages.

h) Candidates should check the question-paper to ascertain that ALL the pages are printed as indicated and that no questions are missing.

	Maximum Score	Candidate's Score
1	25	
2	15	
Total Score	40	

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You are provided with:

i) 100cm^3 of Solution **FA2** – an aqueous solution of hydrochloric acid containing **0.8979g** of **HCl** in 250cm^3 of solution.

ii) 110cm^3 of Solution **FA3** – an alkaline solution made by dissolving **0.984g** of the metal hydroxide, **MOH** in water and making it upto the total volume of the resulting solution to 250cm^3 with more water.

iii) Phenolphthalein indicator solution.

You are required to carry out a titration so as to determine the molar concentration of solution **FA3** and the Relative Atomic Mass of metal **M** contained in the metal hydroxide **MOH** used in making of solution **FA3**.

Procedure:

a) Fill the burette with solution **FA2**.

b) Pipette a 25.0ml of solution **FA3** into a clean 250ml conical flask, add 3 drops of phenolphthalein indicator solution and titrate against solution **FA2** from the burette.

c) Record your titration results in the Table of Results given below and then repeat the titration two more times in order to complete the Table. (5mks)

Titration	1^{ST}	2^{ND}	3^{RD}
Final burette reading, cm^3			
Initial burette reading, cm^3			
Titre, cm^3			

Average volume of solution **FA2** used = _____ cm^3
(Show clearly how you arrive at your answer)

d) Calculations:

i) Write the chemical reaction that takes place when solution **FA2** and **FA3** are mixed together. **(1mk)**

ii) Determine the concentration of solution **FA2** in g dm^{-3} **(2mks)**

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iii) What was the molar concentration of solution **FA2**? **(3mks)**

($\mathbf{H = 1.0}$; $\mathbf{Cl = 35.5}$; $\mathbf{O = 16.0}$)

iv) Determine the number of moles of hydrochloric acid contained in the average titre volume of solution **FA2**. **(3mks)**

v) Calculate the number of moles of the alkali **MOH** contained in 25.0cm^3 of solution **FA3**. **(2mks)**

vi) Determine the concentration of solution **FA3** in mol dm^{-3}. **(2mks)**

vii) Calculate the concentration of solution **FA3** in g dm^{-3}. **(3mks)**

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viii) Determine the Relative Formula Mass**, RFM** of **MOH**. **(2mks)**

ix) Determine the Relative Atomic Mass, **RAM** of metal **M** contained in alkali **MOH** used in solution **FA_3** . ($\mathbf{H = 1.0;\ O = 16.0}$) **(2mks)**

2. You are provided with solid **FA6**. Carry out the tests below and record your observations and inferences in the spaces provided.

a) Add 10cm^3 distilled water to all of solid FA6 provided. Shake well. Filter the mixture into a conical flask. **retain both the filtrate and the residue**

Observations	
(1mk)	

i) To about 2cm^3 of the filtrate, add aqueous Sodium hydroxide solution dropwise until in excess.

Observations	Inferences
(2mks)	**(1mk)**

ii) To about 2cm^3 of the filtrate, add 2M aqueous Ammonia solution DROPWISE until in excess.

Observations	Inferences
(2mks)	**(1mk)**

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b) To about $2cm^3$ of the filtrate, add 3 drops of 2M Hydrochloric acid.

Observations	Inferences
(2mks)	**(1mk)**

c) To about $2cm^3$ of the filtrate, add about $1cm^3$ of acidified Barium chloride solution.

Observations	Inferences
(1mk)	**(1mk)**

d) To the RESIDUE add about $5cm^3$ of dilute Nitric acid and allow it to filter into a test tube. To about $2cm^3$ of this filtrate add 2M aqueous Ammonia solution dropwise until in excess and then filter into a clean test tube.

Observations	Inferences
(2mks)	**(1mk)**

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EXCELLING STUDENTS FORM THREE END TERM 2 SERIES TWO EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

TERM 2
COMPUTER STUDIES 451/1

FORM THREE (3)

TIME 2 ½ Hours.

INSTRUCTIONS TO CANDIDATES

- Write your Name and Admission Number in the spaces provided above.
- This paper consists of **TWO** sections: **A** and **B**
- Answer **ALL** questions in section **A**
- Answer question 16 and any other **THREE** from section **B**
- All answers should be written in the spaces provided in the question paper

For Examiner's use only.

Section	Question	Candidate's Score
A	1 – 15	
	16	
	17	
	18	
	19	
	20	
	Total Score (100)	

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SECTION A (40 marks)

1. Define the following terms **(2mks)**

a) Amplitude

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b) Frequency

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2. Mention three functions of Database Management Software **(3mks)**

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3. State two functions of a query **(2mks)**

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4. Define the following terms as pertaining computer software **(2mks)**

(a) User friendliness

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(b) Portability

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5. Mention three characteristics of a computer infected by computer virus **(3mks)**

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6. Give three reasons that might have necessitated the development of Second generation computers **(3mks)**

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7. Give two reasons for using octal and hexadecimal number system **(2mks)**

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8. Describe three spelling and grammar checkers option available in ms-word **(3mks)**

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9. Differentiate between bound and unbound control **(2mks)**

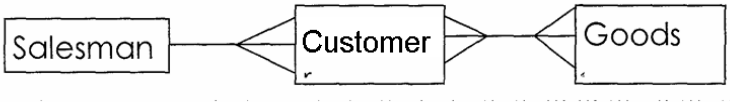
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10. Explain the above E.R. Diagram below. **(2mks)**



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11. Represent -21 in three ways in 8 bit binary **(3mks)**

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12. List **three** advantages of computerized filing system. **(3mks)**

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13. (a) Define the term Key field **(lmk)**

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(b) Describe a property that a field must satisfy to qualify as a primary key **(2mks)**

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14. A computer is idle but the hard disk light is blinking, indicating some activity . State two possible causes of this **(2mks)**

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15. a) What is real time processing **(2mks)**

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b) Mention three application areas of real time processing **(3mks)**

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SECTION B (60 marks)

Answer questions 16 and any other three questions from this section.

16.

(a) Describe how the following terms are used in programming **(3mks)**

(i) Programming

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(ii) Machine Independent

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(iii) Debugging

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(b) Mention three disadvantages of low level programming languages **(3mks)**

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(c) Describe three methods of testing a computer program **(3mks)**

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(d) Study the pseudocode below and draw flowchart that can be used to represent it

```
Start
  Q=5
  P=6
      Enter N
  IF N<=0 Then
  K=P*Q
  M=P-Q
  S=P+Q+K+M
  Else
  K=P
  M=K+P
  S=N
  Endif
      Print K, M, S
Stop
```


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17. (a) Convert the following numbers

(i) 101010.01011_2 to Decimal **(3mks)**

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(ii) 671_8 to Decimal **(3mks)**

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(iii) ADFH to Octal **(3mks)**

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(iv) Evaluate $1010110_2+110001_2-10101_2+1111_2$ **(3mks)**

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(b) Use twos compliment to subtract 16_{10} from 5_{10} and write you answer in decimal notation **(3mks)**

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18.

(i) The following records were entered in a database

Date	Class	Registration No
1/1/2007	East	1425-A
1/1/2008	North	1426-A
12/1/2008	North	1426-B

(a) Suggest a validation rule for date given that it should be not before 1/1/2006 **(2mks)**

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(b) List the records that will be displayed after running the following criteria? **(2mks)**

i. <>#1/1/2008 on date

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ii. 1426-A on class

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(c) Write the input mask for registration No **(1mk)**

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(d) Explain the following terms as used in Word Processing **(3mks)**

i) Word Wrap

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ii) Orientation

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iii) Indenting

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(e) Explain **three** ways in which the contents of a spreadsheet may be prevented from unauthorized editing **(3mks)**

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(f) A worksheet contains the data as shown below.

	A	B	C	D	E	F	G
1	8		20				
2	11		45				
3	14		52				
4							
5							
6							
7							
8							

(i) The formula = COUNTIF (C1:C3, "20") was entered at G1. Write down the value that was displayed. **(lmk)**

(ii) Write down the formula that would be entered at cell B7 to sum the values in column A whose values are greater or equal to 5. **(2mks)**

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(iii) The formula = $C2 + C$3 is entered in cell C5 and then copied to Dl 0. Write down the Formula as it appears in the destination cell. **(1mk)**

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19.

(a) Define the following terms in relation to internet **(3mks)**

(i) Hyperlink

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(ii) Surf

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(iii) Uploading

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(b) During Covid-19 pandemic most learning institutions were using videoconferencing technologies to teach their learners while at home. State three elements that learners were expected to have in order to attend the virtual classes **(3mks)**

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(c) Describe three services offered by the internet **(3mks)**

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(d) Name three human attributes that is usually used to authenticate users with the help of biometric system **(3mks)**

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(e) Explain the following terms as used in data security and control **(3mks)**

(i) Social engineering

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(ii) Industrial Espionage

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(iii) Patches

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20.

(a) Describe the following features with regard to DTP **(3mks)**

(i) Master page

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(ii) Text tool

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(iii) Toolbox

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(b) Describe three ways in which computer technology is used by the police **(3mks)**

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(c) Helmer would like your advice on measures to put in place so as to protect computer users from unhealthy effects of computer usage. Highlight any three **(3mks)**

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(d) An accountant in a company is entitled to creating a payroll list organized in order in which they were employed for the purpose of job promotion and replacement

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(i) State the most appropriate file organization used by the Accountant **(2mks)**

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(ii) Name the best storage media that will support the method in (i) above **(1mk)**

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(iii) State one advantage and one disadvantages of the method mention in (i) above **(2mks)**

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(iv) Identify the best data processing mode the accountant should use to process the employee's salaries **(1mk)**

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES TWO EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

COMPUTER STUDIES
FORM THREE (3)
TIME: 2½ HOURS

PAPER 2

ments and the private sector
take advantage of the
s offered by tele and video
ncing

(QUESTION PAPER)

Instructions to candidates

a) Indicate you name and index number at the top right hand corner of each printout.

b) Write your name and index number on the CD-RW provided.

c) Write the name and version of the software used for each question attempted in the answer sheet.

d) Answer all the questions

e) All questions carry equal marks.

f) Passwords should not be used while saving in the CD-RW provided.

g) All answers must be saved in your CD-RW provided.

h) Make a printout of the answers on the answer sheet.

i) Arrange your printouts and staple them together.

j) Hand in all the printouts and the CD-RW used.

k) This paper consists of 5 printed pages.

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

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1. **(a)** Type and format the following document as it appears using a Word processor. Save it as **TELE1** **(24mks)**

TELE AND VIDEO CONFERENCING

The advent of the information and communications technology has brought with it several advantages that need to be made use of by both the public and private sector. Not only are those technologies convenient but some are also cost effective.

Even though most of the communications technologies are currently widely in use - mobile telephones and internet - one area that needs seriously to be explored and utilised by both government institutions and private sector is tele and video conferencing.

Governments and the private sector need to take advantage of the facilities offered by tele and video conferencing

During the February 1 launch of the 'Just Like Home' seamless network by the region's three main mobile phone providers, Safaricom, MTN Uganda and Vodacom Tanzania, the celebrations were held in the three different countries at different times of the same day.

Nothing wrong with that only that the chief executives of the three firms were meant to be present at all the functions. I say 'were meant to' because I only attended the Nairobi launch.

After the Kenya launch, held at Nairobi's Serena hotel over breakfast from 7 am, the three CEOs, (Safaricom's Bob Collymore, MTN's Noel Meier and Vodacom Tanzania's Romeo Kumalo) were to proceed to the other two launches. These were first the Tanzania launch at lunch time and finally, the Uganda dinner launch in Kampala.

Imagine all the traveling involved and the resultant fatigue for the officials of the three firms, plus others who were part of the retinue. Even though one would argue that the traveling to all the three countries was necessary as there were papers to be signed, reliable sources tell me that what was happening on February 1 was just a formal exercise. Everything else, including the paperwork and memoranda of understanding had already been signed.

The second instance when holding a video conferencing would have been more ideal was recently when Ethiopia's premier Meles Zenawi made a few hours visit to Nairobi to discuss the Somalia crisis with the former President Kibaki

(b) Copy the entire page to a new document and apply the following changes.

i) Remove all the formatting features and the text box. **(2mks**)

ii) Character space the first paragraph to condensed at 24pts. **(2mks)**

iii) Increase the font size to 35. **(1mk)**

iv) Double stroke through the text. **(1mk)**

(c) On the last paragraph:

i) Apply in margin drop cap positioned to the right of the page **(2mks)**

ii) Apply multiple line spacing at 3.5pts. **(2mks)**

iii) Apply hanging indentation on the last paragraph at 1.2. **(2mks)**

v) Insert the current date on the right header of the page. **(2mks)**

v) Save the document as **Tele 2.** **(1mk)**

(c) The following table shows the percentage growth of the three mobile phone providers in two periods of six months in the years 2011, 2012 and 2013. Include it exactly and save the changes. Create a formula to calculate the total percentage growth over the three years for each period. (7marks)

(d)

	Safaricom		MTN		Vodacom	
Years	Period 1	Period 2	Period 1	Period 2	Period 1	Period 2
2011	10	7	12	6	5	8
2012	20	9	20	3	28	67
2013	10	9	7	39	17	1
TOTALS						

(d) Print **TELE1**, **Tele 2** (1mk)

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2. Digital Computer Services is a company with numerous branches in East Africa. In order to monitor the performance of the branches and that of the cities in which the branches are located, a database to organize the information is required.

(a) Create a database file and name it **DIGITAL SERVICES**. **(2mks)**

(b) (i) Create a table containing the following fields: **(4mks)**

Field Name	**Field Type**
STORE-ID	Number/Numeric
BRANCH	Text/Character
CITY	Text/Character
STAFF-SIZE	Number/Numeric

(ii) Make the field STORE-ID the primary key and save the table as **STORE**. **(2mks)**

(c)(i) Create a form from the STORE table and save it as **STORES-FORM**. **(2mks)**

(ii) Use the form to enter the records below: **(5mks)**

STORE-ID	**BRANCH**	**CITY**	**STAFF-SIZE**
1	Tudor	Mombasa	15
2	Bongo	Dar-es-salam	14
3	Sunset	Nairobi	21
4	Lakeview	Kampala	15
5	King'orani	Mombasa	9
6	Beach Town	Kisumu	16
7	ABC	Nairobi	89
8	Crane Ltd.	Kampala	7
9	Wheat Land	Nakuru	12
10	Ocean View	Dar-es-salam	6

(d) (i) Modify the STORE table to include an additional field with the heading SALES (SHS). **(2mks)**

(ii) Enter the information below for each of the stores. **(2mks)**

STORE-NO	**SALES (SHS)**
1	789,300
2	685,400
3	376,958
4	355,420
5	457,800
6	682,458
7	541,000
8	235,420
9	352,415
10	433,443

(iii) In the STORES table, swap the fields CITY with BRANCH. **(2mks)**

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(e)(i) Create a query from the STORES table to display the fields BRANCH, CITY, STAFF-SIZE and SALES (SHS) for stores whose sales are less than 400,000. Save it as **STORES QUERY** **(4mks)**

(ii) The sales increased by 10%. Using a query create a column named NEW SALES that will calculate the changed sales values. Save it as **NEW SALES**. **(3mks)**

(f) (i) Create a tabular report with landscape orientation from the STORES table to display the fields in the following order.

STORE-NO, BRANCH, SALES (SHS) **(3mks)**

(ii) Sort records in the report in alphabetical order of the BRANCH field. **(1mk)**

(iii) Compute the total sales and place it below the SALES (SHS) column and change its font size to 14. Label as TOTAL SALES. **(6mks)**

(iv) Place two straight lines cutting across the page, one above and one below the sales total. **(2mks)**

(g) (i) Insert a header *DIGITAL COMPUTER SERVICES PERFOMANCE* in the report having font size 16 and center it across the page. **(3mks)**

(ii) Remove the report pagination and insert your name and index number in its place and save the report as **PERFOMANCE**. **(2mks)**

(h) Print **STORES**, **NEW SALES query** and **PERFOMANCE report**. **(3mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES TWO EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

TERM 2

CHRISTIAN RELIGIOUS EDUCATION PP1 (QUESTION PAPER)

FORM THREE

TIME 2 HOURS

INSTRUCTIONS TO CANDIDATES:

1) Write your name and index number in the spaces provided above.
2) This paper consists of **FIVE** questions.
4) Answer all five questions on the foolscaps provided.
5) Each question carries 20 marks.

For Examiner's Use Only

Questions	1	2	3	4	5	TOTAL
Score						

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1a) Explain six benefits of learning Christian Religious Education in Secondary schools. **(6mks)**

b) State seven teachings about man from the Genesis stories of creation. **(7mks)**

c) State the importance of reading the bible today. **(7mks)**

2 a) State eight promises that God made to Abraham in Haran and Canaan **(8mks)**

b) How did God instil confidence to Moses so as to accept his call **(5mks)**

c) Identify seven attributes of God learnt by Christians from the ten plaques. **(7mks)**

3 a) Identify four ways in which king Solomon fulfilled the prophesies of Samuel on kingship in Israel **(8mks)**

b) Outline the success of Elijah as a Prophet of God **(5mks)**

c) Give seven ways in which Christians fight corruption in Kenya today **(7mks)**

4 a) Using examples give six reasons why Jesus faced opposition from the Jewish religious leaders in Galilee **(6mks)**

b) Identify seven teachings of Jesus on Eschatology **(7mks)**

c) Identify six signs that confirmed the coming of the Holy Spirit on the day of Pentecost **(6mks)**

5a) Identify seven methods used by the Old Testament prophets to pass their messages. **(7mks)**

b) Describe the call of Prophet Jeremiah **(7mks)**

c) How do Christians play the role of Amos today **(6mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES TWO EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

END OF TERM TWO EXAMS
FORM THREE
C.R.E PAPER 2
2 ½ HRS
END OF TERM TWO EXAMS

INSTRUCTIONS.
Answer any five questions,

1a.) Explain the Jewish expectations concerning the Messiah. **(7mks)**
b.) Give seven similarities in the annunciation of the birth of John the Baptist and that of Jesus Christ **(7mks)**
c.) State ways in which Christians play the role of the Baptist **(6mks)**

2a.) What does Christian learn about Jesus from the incident when he was baptized **(6mks)**
b.) Describe the temptation of Jesus in the wilderness Luke4:1-13 **(7mks)**
c.) Outline seven lessons Christians learn from the temptation of Jesus **(7mks)**

3a.) Describe the triumphant entry of Jesus into Jerusalem Lk19:28-40 **(8mks)**
b.) Outline six teachings of Jesus on prayer **(6mks)**
c.) Why do some Christians feel it difficult to prayer **(6mks)**

4. a) State six characteristics of love according to St. Paul in 1cor13 **(6mks)**
b) Explain four ways in which the unity of believers is expressed in the image of the bride **(8mks)**
c) Identify six roles of the Holy Spirit in the church today. **(6mks)**

5a) Identify the gifts of the holy spirit according to St Paul 1st Corinthians 12; 7-12 **(7mks)**
b) How was the life of peter transformed on the day of Pentecost **(6mks)**
c). State ways in which the gifts of the Holy Spirit are abused in church today **(6mks)**

6a) Identify four teachings of St Paul on the similarities between the church and husband wife Relationship. **(8mks)**
b) Give ways in which Christians prevent division in church today **(7mks)**
c) State five ways in which Christians are able to identify those who posses the gifts of the Holy Spirit **(5mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES TWO EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

Term 2
ENGLISH (101)
FORM THREE (3)
Time: 2½ Hours

INSTRUCTIONS TO CANDIDATES

(a) Write your Name and Adm Number in the spaces provided.

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

(c) Answer all questions in this paper.

(d) All your answers must be written in the spaces provided.

(e) This paper consists of **12** printed pages.

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

(g) Candidates **must** answer all the questions in English.

The paper consists of FOUR sections as follows

SECTION 1	WRITING	20MKS
SECTION 2	COMPREHENSION	20MKS
SECTION 3	ORAL SKILLS	25MKS
SECTION 4	GRAMMAR	15MKS
TOTAL		**80MKS**

1. FUNCTIONAL WRITING **20 MARKS**

You are the secretary of the Students' Council in your school. After a consultation with the chairperson, who is the senior school captain, you call for a second meeting for the year. During the meeting, six members managed to attend, three were absent but sent their regret but two never attended and never bothered to send apologies.

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The school principal and the school deputy principal in-charge of Administration also attended the meeting. Some of the issues discussed include;

i. Codes of conduct of school captains
ii. Trip to Nairobi
iii. Awards
iv. AOB

Write the minutes.

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2. COMPREHENSION **20 MARKS**

Read the passage below and answer the questions that follow.

The issue of integrity among our leaders has been a concern to me for a long time but recent political developments especially since the referendum campaigns have promoted me to reflect on this topic. The behavior of our leaders over the last couple of months makes me wonder if integrity was ever a consideration in the appointment of, or the voting to office for our leaders. Some of our members of parliament ought not to be in the August House for the simple reason that they cannot pass the integrity test.

What saddens me most is that our leaders are supposed to be our role models, yet some have lifestyles, beliefs and practices that should not be emulated. It's sad to note that many have no integrity and are not worth in the positions of power they hold .They are a shame to the nation and an embarrassment and let down to our children .

Integrity: 1. adherence to moral principles; honesty 2. the quality of unimpaired; soundness.3.unity wholeness. When you have integrity your words and your deeds match up. You are who you are, no matter where you are or whom you are with.

Sadly, integrity is a vanishing commodity in our country today .Politicians top the list of those I consider to have little integrity .But lack of integrity is also evident in our relationships, at home, at our places of work and even in faith based organizations. Personal standards have crumbled as we have taken to personal pleasure and shortcuts to success. Money and power seem to be the two most sought after commodities and in the scramble to get them integrity has taken a back seat. You have seen people become overnight millionaires through corrupt deals and politicians following their stomachs as they move from one camp to another. A person of integrity does not have divided loyalties no does he or she pretends to be who they are not. People who have integrity are 'whole' people who are identified by their single- mindedness and unwavering commitment to what is right. They have nothing to hide and nothing to fear. Their lives are open books. A person of integrity has established a morally right system of values against which all of life is judged.

Integrity is not what we do as much as who we are, which in turn influences what we do. It determines what is important to us and guides our priorities in life. We are all faced with conflicting desires at different points in life. No one, no matter how 'spiritual' can avoid this battle. Integrity is the foundation that determines what we stand for and fall for. We struggle daily with situations that demand decisions between what we want to do and what we ought to do. Integrity establishes the standards and rules by which we resolve these conflicts.

Integrity will not allow our lips to violate our hearts. When integrity is the referee, we will be consistent; and our beliefs will be mirrored by our conduct. There will be no discrepancy between what we appear to be and what others know we are, whether in times of prosperity or diversity.

Integrity allows us to predetermine what will be regardless of circumstances, persons involved, or the places of our testing. Integrity frees us to be ourselves no matter what comes our way.

Integrity also determines our credibility and the more credible we are the more confidence others place in us, thereby allowing us the privilege of influencing their lives. The supreme quality for any leader, parents included, should be unquestionably integrity. Without integrity, no real success in leadership or parenting is possible.

Most of us live only for ''image'' seeking to be seen as particular people when we are not what we project of ourselves. A person of integrity is an authentic and honest person. If you have integrity, you are sincere and don't have to advertise the fact .It is visible in your actions and soon becomes common knowledge to everyone.

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Integrity is not a given factor in everyone's life .It is a result of self-discipline, inner trust and a decision to be relentlessly honest in all situations in our lives .Unfortunately, today strength of character is a rare commodity .The meaning of integrity has been eroded .Can you stand up and be counted as a man or woman of integrity? If you can't, then make it your New Year's resolution to be a person of integrity.

Questions

a) What reasons does the author advance to doubt the credibility of some of our members of parliament? **(2mks)**

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b) When you have integrity your words and deeds match up (Rewrite replacing match-up with one word) **(1mk)**

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c) Why is the author saddened by our leaders? **(3mks)**

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d) The writer thinks that integrity is a vanishing commodity in our country today. Give reasons. **(3mks)**

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e) A person of integrity does not have divided loyalties, nor does he or she pretend to be who they are not.

(Begin neither) **(1mk)**

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f) In about 40 words write a summary on the characteristics of a person of integrity. **(4mks)**

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g) What is the author's attitude towards our leaders? **(2mks)**

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h) Explain the meaning of the following words and phrases as used in the passage **(4mks)**

i) Crumbled

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ii) Integrity has taken a back seat

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iii) Unwavering

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iv) Violate

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3. ORAL SKILLS 25 Marks

a. Read the following poem and answer the questions that follow.

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.

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I want to die while you love me,
I could not bear to see,
The glory of this perfect day,
Grow dim- or cease to be.

I want to die when you love me,
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 am dead.

I. Describe the rhyme scheme in the poem above. **(2mks)**

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ii. Identify and illustrate 2 sound devices used in the poem above. **(4mks)**

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iii. You have been asked to present this poem to the audience. How would you make the presentation lively? **(2mks)**

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iv. How would you perform the last line of this poem? **(2mks)**

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b. **Underline the silent letter in each of the following words.** **(4mks)**

i. Briton
ii. Thyme
iii. Apropos
iv. Tourism

c. **Which word is pronounced the same as the ones below?** **(3mks)**

i. One-
ii. Fur-
iii. Key –

d. You have been invited to be the guest speaker in your friend's graduation ceremony. How would you deal with fear and anxiety so that you deliver your speech effectively? **(4mks)**

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e. Imagine you were to perform an oral narrative at the County Drama Festival Competition. What accompaniment would make your audience remember your performance for a long time? **(4mks)**

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4. GRAMMAR **15 MARKS**

1. Choose the correct pronoun in the brackets to fill in the blanks below. **(2mks)**

i. He was asked to select between Jeremy and _____ (I/me)

ii. The boy had forgotten _____ he gave the money. (who/whom)

2. Fill in the blank spaces using the correct form of the verb in brackets. **(2mks)**

a. If I had money, I _____(buy) a car.

b. If she _____ (be) honest, I would stay with him.

3. Choose the correct form of words in brackets to complete each of the sentences below. **(2mks)**

i. Who broke the handle_____ (off, of) this cup?

ii. Choose _____ (among, between) these eight phones.

4. Use the comparative form of the word in brackets to fill the blank spaces below. **(3mks)**

a. George could not have been _____ about our visit. (happy)

b. Last year, we had the _____ of our lives. (bad)

c. This fruit has a _____ flavor than the one you bought yesterday. (rich)

5. Fill in the blanks below with appropriate propositions **(2mks)**

i. They prohibited _____ parking cars at the gate.

ii. The meat weighed _____ three hundred kilograms.

6. Change the following sentences into passive. **(2mks)**

i. Kimani wrote the best essay

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ii. Mrs. Onyango bought the beautiful car over the there.

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7. Rewrite the following sentences adding appropriate question tags. (2mks)

i. Let's do the assignment

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ii. He saw the man run.

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES TWO EXAMS

NAME: ……..

SHOOOL: ……

ADM NO: ……..……. SIGN……..… DATE: ……..

101/2
ENGLISH
FORM THRE
(Comprehension, Literary appreciation and grammar)
END OF TERM 2 EXAM
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 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 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.

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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. **(2mks)**

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

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

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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**?** **(2mks)**

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

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

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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) **(1mk)**

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

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

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2. ***<u>Read the excerpt below and answer the questions that follow (25 marks)</u>***

When all four were back at their seats, the Chair began to wrap up."Excellencies, we've come to the end of our summit." He smiled, and why not? Had The Trick not saved the day? Had it not eliminated the need for the consensus he could not achieve? "Go back home safely, Excellencies. As we say in my country, travel like lions, without fear of attack or worry about supper. And, speaking about supper, the Pinnacle informs me that, to cap our summit, it has organised a closing ceremony on the mezzanine floor. Things will start sizzling in thirty minutes. So we'll meet there soon." Gavel hit wood.Bang. "I now declare the summit itself formally closed." Bang. Bang.

President Dibonso sprang to hit feet at once. "Mr Chairman, don't insult our intelligence withthat rubbish." His voice was grating on all ears with tones of rage.

"What rubbish are you referring to? President Dibonso?" asked the Chair. He was rising tothe challenge.

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"The Choice Matrix indeed! Do you really expect us to buy into that madness? Can't you seethat some of us are not senile? We reject the matrix, lock, stock and barrel."
"I said the summit stands closed," insisted the Chair. Bang. Bang."And I say it is open again," retorted President Dibonso.
"But, President Dibonso, you do not have the power to do so."
"Who says I do not have the power to do so? See this?" He pulled out a pistol, pocket-size.The other heads of state scrambled to hide under their desks.
"President Dibonso, put that thing away!" demanded the Chair."Make me!" retorted President Dibonso, The pistol clicked, It was ready to start spitting fire at the Chaire

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EXCERPT QUESTIONS

a) Briefly explain what happens just before the excerpt. **(4mks)**

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b) Identify and illustrate two-character traits of the Summit Chair and one of President Dibonso. **(6mks)**

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c) What two themes come out in the excerpt? **(4mks)**

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d) We reject the matrix, lock, stock and barrel. (Write beginning with "Lock**")** **(1mk)**

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e) Discuss two stylistic devices used in the excerpt. **(4mks)**

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f) I said the summit is closed. (Rewrite using a question tag) **(1mk)**

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g) Explain the meaning of the following words as used in the excerpt. **(3mks)**

i. Consensus

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ii. cap

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iii.sizzling

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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 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.

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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.

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. **(2mks)**

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

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

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

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(e) Describe **two** character traits of Dog as depicted in the story. **(4mks)**

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

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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. **(1mk)**

Rewrite beginning with: The tortoise…

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(h) Give the meaning of the following words as used in the story. **(3mks)**

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:*** **[5mks]**

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.

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

v. ***Replace the underlined word in each of the following sentences with appropriate phrasal verb.*** **[3mks]**

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

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

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

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vi.*Rewrite the following sentences as instructed. Do not change the meaning*: **[4mks]**

a.It was a bizarre incident.[Rewrite beginning: How……..]

……

……

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

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……

c.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

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES TWO EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

ENGLISH PAPER 3

FORM 3

END TERM 2

TIME 2&$^{1}/_{2}$HRS

1. **COMPULSORY: IMAGINATIVE COMPOSITION (20 MARKS)**

Either,

(a) Write a story that ends with the following sentence.
I never believed that I would see Kisali again.

Or

(b) Write a composition explaining what Kenyan youths can do to help in the fight against corruption.

2. THE COMPULSORY SET TEXT (THE SAMARITAN)

Bad decisions in leadership can adversely affect our lives. Basing your illustrations on play, The Samaritan, by John Lara, write a composition to show the truth of this assertion. **(20mks)**

3. OPTIONAL SET TEXT

(A Silent Song)

(a) Lack of sound judgment results in regret. Making reference to A Man of Awesome Power, write an essay to justify this claim. **(20mks)**

OR

Artist Of The Floating World

(b) The author has been able to effectively employ irony to bring out the message of the text. Illustrate the effectiveness of this style in the text An Artist of The floating world by Kazuo Ishiguro **(20mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES TWO EXAMS

NAME: ……

SHOOOL: ……..

ADM NO: ……..…….... SIGN…….……..… DATE: ……..……..

TERM 2
GEOGRAPHY (QUESTION PAPER)
FORM 3
TIME 2¾ HOURS
PAPER 1

Instructions to candidates
This paper has **TWO** sections **A,** and **B**
Answer **ALL** questions in sections **A** in section **B** answer question **six** and **any** other **two** questions **ALL** answer must be written in the answer booklet provided.

SECTION A

Answer ALL the questions in this section.

1. **(a)** Name the **three** transitional zones of the atmosphere **(3mks)**

(b) Give **two** reasons why cloud concentration is higher in the troposphere **(2mks)**

2. **(a)** State **three** sources of underground water **(3mks)**

(b) State **two** ways in which underground water may reach the surface of the earth **(2mks)**

3. **(a)** What are the conditions for the occurrence of saline lakes in the rift valley **(3mks)**

(b) State **two** ways in which lakes are formed naturally **(2mks)**

4. **(a)** Apart from secondary waves name two other types of waves generated by an earth quake **(2mks)**

(b)

(i) State two characteristics of **S**-waves generated by an earthquakes **(2mks)**

(ii) Name the instrument that measures seismic waves. **(1mk)**

5. **(a)** State two characteristics of the sun. **(2mks)**

(b) Outline three forces that have influenced the shape of the earth. **(3mks)**

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SECTION B

Answer Question 6 and any other TWO in this section.

6. Study the map of Kijabe 1:50,000 provided and answer the following questions:

(a) Give

(i) The name of the map. **(1mk)**

(ii) Title of the map. **(1mk)**

(iii) Name two types of scales used on Kijabe map. **(2mks)**

(b)(i) Give the approximate position of Kijabe Station by latitude and longitude. **(2mks)**

(ii) Apart from latitudes and longitudes, give three other methods used on the map to locate places. **(3mks)**

(c) (i) Describe the distribution of vegetation in the area covered by the map. **(5mks)**

(ii) Identify the drainage patterns on Kijabe Hill. **(2mks)**

(iii) Give any two evidences to show that the area receives high rainfall. **(2mks)**

(d) (i) Identify activities represented by

- Murram pit in grid square 3190
- Carbacid Plant in grid square 3796

(ii) Draw a rectangle measuring 8cm by 10cm to represent part of the map from 240910 to 280910 and from 240910 to 240960. On it mark and name. **(5mks)**

(iii) State two physical factors that would make it difficult to construct a road in area found in grid square 3099. **(2mks)**

7. (a) Differentiate between aridity and desertification. **(2mks)**

(b) Name **three** types of desert surfaces. **(3mks)**

(c) Using well labeled diagrams explain the formation of the following desert features

i) Barchan **(3mks)**

ii) Zeugens **(3mks)**

(d) (i) Explain the role played by ocean currents in enhancing aridity. **(4mks)**

(ii) Give three examples of ocean currents and name the arid areas that result from their influence. **(3mks)**

(e) (i) Name **three** processes involved in wind erosion in deserts. **(3mks)**

(ii) State four significance of desert features to man. **(4mks)**

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8. (a) State and explain **two** causes of faulting **(4mks)**

(b) Explain **three** ways in which faulting can influence drainage system **(6mks)**

(c) Describe the effect of a rift valley on the following

(i) Transport **(3mks)**
(ii) Agriculture **(3mks)**

(d) **(i)** Describe how block mountains influence climate **(4mks)**

(ii) Give **three** significances of faulting to human activities **(3mks)**

(e) Differentiate between a symmetrical fold and an asymmetrical fold **(2mks)**

9 (a) (i) State the difference between regolith and talus scree. **(3mks)**

(ii) Outline three factors that influence weathering of rocks in Kenyan highlands.

b) (i) Explain three physical processes that may lead to breakdown of rocks**.** **(9mks)**

(ii) State three ways how rainfall may contribute to the decay of rocks **(3mks)**

(iii) Name two features which result from weathering. **(2mks)**

c) Outline the significance of weathering to:

(i) Farming **(3mks)**

(ii) Mining **(2mks)**

10 (a) (i) Define a river **(2mks)**

(ii) Explain how a river erodes through the following processes:

- Hydraulic action
- Corrasion
- Corrosion **(6mks)**

(b) (i) Differentiate between river capture and river rejuvenation **(2mks)**

(ii) Describe the process of river capture with the aid of a well-labeled diagram. **(8mks)**

(c) State **three** conditions leading to river rejuvenation. **(3mks)**

(d) Your school plans to carry out a field study along a river.

(i) Name **two** features found at the youthful stage. **(2mks)**

(ii) Give **two** negative effects of rivers they are likely to find out**.** **(2mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES TWO EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

312/2
GEOGRAPHY
PAPER 2.
END TERM 2 EXAM
FORM 3
TIME: 2 ¾ HRS

Instructions.
This paper contain TWO section A and B. answer all questions in Both sections.
In a separate booklet provided.

SECTION A.

1. a. What is mining? **(2mks)**

b. State three factors influencing the occurrence of minerals. **(3mks)**

2. a. Name two indigenous softwood trees species. **(2mks)**

b. Give three factors that favour the growth of Natural forests on the slopes of Mt. Kenya. (3mks)

3. a. What is sampling? **(2mks)**

b. Give three main types of sampling techniques. **(3mks)**

4. a. List two open cast methods of mining. **(2mks)**

b. What are the effects of dereliction of land during mining? **(3mks)**

5. a. A student was requested to pick out fourteen numbers randomly from a set of numbers.

She picked 20, 37, 1, 66, 42, 12, 6, 15, 12, 42, 100, 3, 82, and 42. Calculate:

i. The mean of the data. **(2mks)**

ii. The mode of the data. **(1mk)**

iii. The median of data. **(2mks)**

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SECTION B.

6.a. The table below shows hypothetical data of minerals production in Tanzania in tones.
Use it to construct proportional divided circles.

	Quantity in tonnes		
Minerals	**1998**	**1999**	**2000**
Graphites	200	490	930
Fluorspar	30	255	450
Soda ash	270	300	350
Diamond	500	870	1270
Total	1000	1915	3000

b. State three advantage of proportional divided circles. **(3mks)**

7. a. State four factors influencing exploitation of minerals. **(4mks)**

b. The map below show location of mineral in East Africa, use it to answer questions c (i) diagram



i. Name the minerals found in areas marked J, K, L and M. **(4mks)**

ii. Describe the process of Trona in Lake magadi. **(4mks)**

d. Your class intend to carry out a field study of mining of Trona in Lake Magadi.

i. State four reasons why it is important to conduct a reconnaissance. **(4mks)**

ii. Give three items to be included in the working schedule for the study . **(3mks)**

e. State three benefits of Trona to the economy of Kenya. **(3mks)**

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8. a. (i) What is forestry? **(2mks)**

ii. Apart from tropical hardwood forest name twoother types of natural forest. **(2mks)**

iii. State the problems experienced in exploitation of tropical hardwood forest. **(5mks)**

b. List the characteristics of planted forests in Kenya. **(5mks)**

c. Explain three factors that favour forestry in Canada. **(6mks)**

d. Give five measures that the government has taken to conserve and manage forests in Kenya. **(5mks)**

e. Form four students in your school carried out a field study on the forestry within the county.

i. Give reasons they had to prepare a working schedule. **(3mks)**

ii. What are the problems likely to be encountered during the field study? **(2mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES TWO EXAMS

NAME: ……..……..

SHOOOL: ……...

ADM NO: ……..…. SIGN: ……..… DATE: ……..……..

HISTORY PAPER 1
FORM THREE
END OF TERM 2

TIME: 2 ½ HOURS.

INSTRUCTIONS TO STUDENTS

. **a)** This paper consists of three sections **A**, **B** and **C**.

. **b)** Answer **ALL** the questions in section **A**, **THREE** in section **B** and **TWO** questions from section **C**

SECTION A : 25 MARKS

Answer all the questions in this section.

1. Give the ***main*** source of information on unwritten history **(1mk)**

2. Give ***two*** functions age set among the Agikuyu in pre-colonial Kenya. **(2mks)**

3. Give ***two*** ways of interaction between Kenya societies in the 19th century. **(2mks)**

4. Identify the name of the council of elders among Mijikenda community. **(1mk)**

5. Why was 1957 elections in important in history of Kenya. **(1mk)**

6. Give ***two*** contributions of the early missionaries in the field of education **(2mks)**

7. Give ***two*** characteristics of a good constitution. **(2mks)**

8. Identify ***two*** special groups whose rights are protected by Kenyan constitution. **(2mks)**

9. State ***two*** reasons why colonial government encouraged settler farming in Kenya **(2mks)**

10. Identify ***two*** communities that showed mixed reactions in Kenya. **(2mks)**

11. Identify ***one*** reason why trade unions were not formed in Kenya by 1914. **(1mk)**

12. Name ***two*** cash crop that Africans were prohibited from growing in colonial Kenya. **(2mks)**

13. Name the body in charge of election in Kenya. **(1mk)**

14. Identify ***two*** features of independent schools and churches in colonial Kenya. **(2mks)**

15. Give the political parties that represented Kenya during the 2nd Lancaster House Conference of 1962. **(2mks)**

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Section B (45 marks)

Answer any three questions from this section

16. a) Give three reasons why early visitors came to the East African Coast**.** **(3mks)**

(b) Explain six factors which led to the decline of Coastal towns after 1500A.D **(12mks)**

17. (a) Give ***five*** reasons why the Maasai collaborated with the British during the colonial period in Kenya.. **(5mks)**

(b) Explain ***five*** reasons why the Nandi resisted the British for so long. **(10mks)**

18. (a) Identify ***five*** results of Devonshire White Paper of 1923. **(5mks)**

(b) Explain ***five*** consequences of colonial land policies in Kenya. **(10mks)**

19. (a) Give ***five*** characteristics of early political organizations in Kenya. **(5mks)**

(b) Explain five problems faced by trade union movements in Kenya during colonial period. **(10mks)**

Section C (30 marks)

Answer any two questions from this section

20. (a) Name ***five*** members of African Elected Members Organization. **(5mks)**

(b) Describe ***five*** impacts of the First Lancaster House Conference of 1960. **(12mks)**

21. a) State **t*hree*** methods that were used by African Nationalist during the struggle for independence. **(3mks)**

b) Explain the role of women in the Mau Mau movement. **(12mks)**

22. (a) Identify ***five*** levels of conflicts **(5mks)**

(b) Explain ***five*** factors that promote national unity in Kenya. **(12mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES TWO EXAMS

NAME: …….

SHOOOL: ……

ADM NO: ……. SIGN……..……..… DATE: ……..

Term 2

HISTORY AND GOVERNMENT (311) PP2

FORM THREE (3)

Time: 2½ Hours

Instruction to candidates:

a) This paper consists of three sections A, B and C.
b) Answer all the question in section A, Three questions from section B and Two questions in section C.
c) Answers to all Questions must be written in the Answer booklet provided.
d) Candidates should check the Question paper to ascertain that all pages are printed as indicated and no Questions are missing.
e) Answer all questions in English

For Examiner's use only

SECTION A	SECTION B			SECTION C		TOTAL
1-17						

SECTION A (25 MARKS)
Attempt all the questions from this section.

1. Give the relationship between history and government. **(1mk)**
2. State two reasons why Africa is regarded as the cradle of mankind. **(2mks)**
3. State two ways in which agrarian revolution led to industrial revolution**.** **(2mks**)
4. Name one section of the Maasai that strictly practised pastoral economy. **(1mk)**
5. Name any two missionaries who worked along the Kenyan Coast by mid-19th C**.** **(2mks)**
6. Identify the major pronouncement of Devonshire White Paper of 1923. **(1mk)**
7. Mention the capital of the Buganda Kingdom in the 19th C. **(1mk)**
8. Identify the main source of energy used in the early stages of industrial revolution in Europe. **(1mk)**
9. State two ways in which the colonial government acquired land for European settlers in Kenya. **(2mks)**
10. List down two kingdoms that participated in the Trans – Saharan trade. **(2mks)**
11. Name one community which took part in the Chimurenga war of 1896. **(1mk)**

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12. State two disadvantages of road transport. **(2mks)**
13. Mention one ancient urban center in Europe. **(1mk)**
14. State two reasons why the Nandi resisted the British for long. **(2mks)**
15. State two effects of Land Apportionment Act in Zimbabwe during the colonial period. **(2mks)**
16. Give one advantage of dual citizenship. **(1mk)**
17. State one example of direct democracy. **(1mk)**

SECTION B (45 MARKS)

Attempt any three questions from this section.

18. a) State five factors that facilitated the coming of Early visitors to the East African Coast**.** **(5mks)**
b) Explain five negative effects of Portuguese rule at the East Coast of Africa. **(10mks)**

19. a) State five factors for the growth of Trans – Saharan trade. **(5mks)**
b) Explain five reasons for the decline of the Trans – Atlantic trade. **(10mks)**

20. a) State three ways in which the colonial administration controlled migration of Africans to urban centers. **(3mks)**
b) Explain six consequences of colonial Land Policies. **(12mks)**

21. a) State five characteristics of Early political organizations**.** **(5mks)**
b) Explain five causes of the rise of Independent Churches and Schools. **(10mks)**

SECTION C (30 MARKS)

Attempt any two questions from this section.

22. a) Give five factors for the growth of Asante Empire. **(5mks)**
b) Describe the political organization of the Buganda. **(10mks)**

23. a) State five reasons for using Indirect Rule in Nigeria. **(5mks)**
b) Explain five differences between the British and the French systems of administration. **(10mks)**

24. a) State five characteristics of a good constitution**.** **(5mks)**
b) Explain five importance of the UN Charter on Human Rights. **(10mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES TWO EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

Term 2

HOME SCIENCE (441/1)

THEORY

FORM THREE (3)

Time: 2½ Hours

Instructions to students

a) Write your name, admission number and class in the spaces provided
b) Sign and write the date of the examination in the spaces provided
*c) This paper consists of **three** sections: **A**, **B** and **C***
*d) Answer **all** the questions in sections **A** and **B** and any **two** questions from section **C***
e) Answers to all the questions must be written in the spaces provided in the paper
*f) **This paper consists of 15 printed pages***
*g) **Students should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing***
*h) **Students should answer the questions in English***

For examiner's use only

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

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SECTION A: (40 marks)

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

1. Mention **two** ways of providing variety of colour in food. **(2mks)**

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2. List **two** methods of steaming food. **(1mk)**

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3. Give **two** ways of encouraging children to play. **(2mks)**

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4. State **two** reasons why charcoal must be completely lit before grilling meat. **(2mks)**

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5. Mention **three** precautions one should observe when handling glass utensils. **(3mks)**

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6. Give **two** reasons why calcium is important in the diet of an expectant mother. **(2mks)**

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7. Mention **two** limitations of dry cleaning at home. **(1mk)**

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8. Give **two** precautions one should take when washing loose coloured clothes. **(2mks)**

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9. State **three** reasons why young people should be encouraged to do physical body exercises. **(3mks)**

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10. Give **two** reasons for blanching vegetables. **(1mk)**

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11. Arrange the following foods into a three course meal. **(3mks)**

Carrot Rice
Ice cream
Steamed Spinach
Cream of Pumpkin Soup
Fried Beef
Vegetable Gravy
Croutons

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12. Sate **two** importance of ascorbic acid in the body. **(2mks)**

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13. Give **two** possible causes of large holes in a cake. **(1mk)**

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14. Mention **three** points to ensure hygiene during weaning. **(3mks)**

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15. State **two** ways of preventing snake bites. **(2mks)**

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16. Give **two** reasons why batter needs to be left for a while before cooking. **(2mks)**

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17. Identify **two** fibres with the following characteristics: **(2mks)**

a) Strong when wet and dry.

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b) Melts when in contact with flame and self-extinguishing.

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18. Mention **two** precautions to observe when using a microwave cooker. **(2mks)**

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19. Give **two** ways of making an apron decorative. **(1mk)**

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20. Identify **three** qualities of a good kitchen sink. **(3mks)**

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SECTION B: (20 marks)

COMPULSORY

Answer question 21 in the spaces provided.

21. You are helping with some odd jobs at home in preparation for Christmas.

a) Outline the procedure you will follow to clean the blocked kitchen sink. **(8mks)**

b) Describe how you will launder the white linen table cloth with an old tea stain. **(12mks)**

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SECTION C: (40 marks)

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

22.

a) Outline **five** rules to observe when setting a table for guests during a dinner. **(5mks)**

b) Mention **four** ways of avoiding nappy rash in babies. **(4mks)**

c) Mention **five** general causes of malnutrition in a population. **(5mks)**

d) Citing clear examples, explain **three** reasons for cooking food. **(6mks)**

23.

a) Explain **three** reasons why silk fabrics are good for making dinner dresses. **(6mks)**

b) Outline **four** rules on the care of a gas cooker. **(4mks)**

c) Mention f**our** points to observe when laying out pattern pieces on the fabric. **(4mks)**

d) Discuss **three** reasons why a garment care label is important to a consumer. **(6mks)**

24.

a) Give **six** ways of conserving Ascorbic Acid when preparing and cooking cabbages. **(6mks)**

b) Mention **five** reasons why dish washers are not common in many Kenyan homes. **(5mks)**

c) Discuss **three** dangers of computer games for children. **(6mks)**

d) Outline **three** reasons why a recipe is important in cooking. **(3mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES TWO EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

HOME SCIENCE

FORM 3

441/2

CLOTHING AND TEXTILE

A pattern of a girl's skirt is provided . You are advised to study the sketches, the question paper and the layout carefully before you begin the test.

Materials provided

1. Pattern pieces
- Skirt front
- Skirt back
- Front yoke

2. Light weight cotton fabric 50cm by 90cm wide
3. Sewing thread to match the fabric
4. One large envelope

The test

Using the materials provided, cut out and make up the RIGHT HALF of the skirt to show the following processes.

a. Making of the back dart
b. The preparation of the gathers on the skirt front piece. Leave the gathering stitches
c. Attatchment of the yoke piece to the skirt front using a neated overlaid seam. Neaten by loop stitches
d. Making of a neated side seam. Neaten by overcasting
e. Preparation of the skirt hem and slip hemming it

At the end of the examination, carefully sew on to your work, on a single fabric a lable bearing your name and admission nunber. Remove pinsand needles from your work,then fold your work carefully and place it in the envelope provided. Do not put scraps of fabricin the envelope.

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES TWO EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

FOOD AND NUTRITION
HOMESCIENCE PRACTICAL – 441/3
FORM THREE
Planning Session: 30 min
Practical : $1\frac{1}{4}$ *hrs*
Instructions:

1. Read the test carefully
2. Textbooks and recipes may be used during the planning session as reference materials

THE TEST

Your friend is visiting to spend a weekend with you. Use the items listed below to prepare, cook and serve breakfast for two. Include 2 dishes to accompany the beverage and fruit.

Ingredients

- Milk
- Tealeaves
- Sugar
- Bread
- Eggs
- Fruits in season
- Margarine

Planning session: 30 min

Use separate sheets of paper to make duplicating copies of the following.

1. Identify the dishes and write down their recipes
2. Write down your order of work
3. Make a list of foodstuffs and equipment you will require.

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES TWO EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

TERM 2
ISLAMIC RELIGIOUS EDUCATION (QUESTION PAPER)

FORM 3

TIME $2^1/_2$ HOURS

INSTRUCTIONS:

1. **This paper contains five(5) questions.**
2. **Answer all questions**
3. **Write your answers in the answer sheet provided.**
4. **All answers must be in English**.

1 a) Identify five importance of the Holy Qur'an to Muslims **(6mks)**

b) Discuss the circumstances that led to the standardization of the *Holy Quran.* **(6mks)**

c) State the moral teachings of *Suratul Nur* **(8mks)**

2. a) Identify six methods used by the prophet to spread his *hadith* and *Sunnah*. **(6mks)**

b) Mention eight conditions that a *Hadith* should fulfill before it is accepted as *sahih*. **(8mks)**

c) State six characteristics of the angels of Allah. **(6mks)**

3.a) State six duties of an *Imam* in the Muslim society **(6mks)**

b) Distinguish between *Shariah* and *Fiqh*. **(8mks)**

c) State the contributions of *Jafar Assidiq* to the development of *fiqh*. **(6mks)**

4. a) Identify five types of sexual perversion practiced in the society. **(5mks)**

b) Explain five significance of *Wasiya* in to Muslims. **(5mks)**

c) Discuss five importance of marriage in Islam. **(10mks)**

5. a) Describe the social practices of Arabs in Arabia during the *Jahiliyya* period. **(7mks)**

b) Explain the factors that facilitated the spread of Islam in pre-colonial East Africa **(6mks)**

c) Outline the achievements of Sheikh Hassan al Banna in the spread of Islam **(7mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES TWO EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

TERM 3
ISLAMIC RELIGIOUS EDUCATION (QUESTION PAPER)
FORM THREE
TIME $2^1/_2$ HOURS
PAPER 2

INSTRUCTIONS:

1. This paper contains six (6) questions.
2. Answer any FIVE questions
3. Write your answers in the answer sheet provided.
4. All answers must be in English.

1 a) State any **five** deeds that lead to piety and righteousness **(5mks)**
b) Explain the effects of *zinaa* in the society. **(6Mks)**
c) State the Islamic manners of dressing. **(8mks)**

2. (a) Identify the rights of the extended family members. **(5Mks)**
(b) Explain five valid reasons that may force a Muslim wife to ask for *'Talaq'*. **(5Mks)**
(c) Identify five prohibited foods/drinks in Islam and give reasons why each has been prohibited. **(10Mks)**

3. a) Sate the significance of wasiya in Islam **(6mks)**
b) Explain the Islamic teachings on the acquisition of wealth and property **(7mks)**
c) Give reasons for the prohibition of hoarding in Islam **(5mks)**

4. a) Describe five forms of persecution the early Muslims were subjected to in Makkah **.** **(5mks)**
b) Identify five the roles played by *Nabongo Mumia* in the spread of Islam in Western Kenya. **(5Mks)**
c) Discuss the immediate challenges faced by Abubakar As-Siddiq when he became a Caliph. **(10mks)**

5. (a) Give the contribution *of* Abdul Malik bin Marwan of the *Umayyad Dynasty*. **(7Mks)**
(b) Identify the features of the Umayyad administration . **(6Mks)**
(c) Explain the effects of the first contact of Arab Muslims with East African coast . **(8Mks)**

6. a) What were the contributions of Sheilh Al-Amin Mazrui in the development of Islam in Kenya? **(10mks)**
b) State Imam Ghazali's views on education **(10mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES TWO EXAMS

JINA: ……..

SHULE: ……

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

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 nyingine moja kati ya hizo tatu zilizobakia.
c) Kila insha isipungue maneno **400.**
d) Kila insha ina alama 20.
e) Kila insha **lazima** iandikwe kwa lugha ya **Kiswahili.**
f) Insha zote **sharti** ziandikwe katika nafasi ulizoachiwa kwenye kijitabu hiki cha maswali.
g) Karatasi hii ina kurasa 8 zilizopigwa chapa.
h) Watahiniwa ni lazima wahakikishe kwamba kurasa zote za karatasi hii zimepigwa chapa sawasawa na kuwa maswali yote yamo.

Kwa matumizi ya mtahini pekee.

1. Wewe ni mhariri wa Gazeti la Nipashe , andika tahariri kuhusu athari za janga la virusi vya korona nchini na namna ya kukabiliana na janga hilo.

2. Visa vya watoto wa chini ya umri wa miaka kumi na minane kuhusika katika visa vya upotovu wa maadili vimekithiri nchini. Jadili vyanzo vyake na upendekeze suluhu kwa uovu huo.

3. Andika kisa kitakachodhihirisha maana ya methali: Usiache mbachao kwa msala upitao.

4. Andika insha itakayomalizika kwa maneno haya;
Nilipiga magoti chini nikamshukuru Mola. Mwisho wa matatizo yangu ulikuwa umefika na nilijazwa na matumaini ya siku za usoni zenye kufana.

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES TWO EXAMS

JINA: ……..

SHULE: ……..…….

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

102/2 - KISWAHILI - KARATASI YA 2 LUGHA Muda: Saa 2

Maagizo

a. Jibu maswali **yote**

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

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

d. Karatasi hii ina kurasa 14 zilizopigwa chapa

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

Kwa matumizi ya mtahini pekee

Swali	Upeo	Alama
1	15	
2	15	
3	40	
4	10	
Jumla	80	

UFAHAMU

Soma makala yafuatayo kisha ujibu maswali.

Watu husema mengi kuhusu maisha, wengine husema mtu anapozaliwa hatima yake huwa imeshaamuliwa na Mwenyezi na hata afanye nini hakuna wa kubadilisha, yaani kama *majaaliwa* yake ni awe mwizi stadi katika *siku zake za halafu*, basi atakuwa mwizi stadi bila shaka; kama majaaliwa yake ni awe daktari maarufu, basi atakuwa daktari mashuhuri, na kadhalika, Watu kama hawa wana msimamo sawa na ule wa raia wa Uyunani (Ugiriki) wanaoamini kuwa maisha ya kila binadamu yana sehemu mbili kuu: sehemu mbaya na sehemu nzuri. Wayunani hawa wanashikilia kuwa kila mtu lazima azionje sehemu zote mbili katika aushi yake na kwamba haiwezekani kuliepuka jambo hili. Watu hawa pia wanaamini kuwa miungu wao ndio wanaoamua maisha yao yatafuata mkondo gani. Yaani, wana imani kamili kwenye jaala eti kwa vile *wino wa Mungu haufutiki*.

Kwa bahati mbaya, humu nchini mwetu wapo watu ambao wanashiriki imani hiyo ya majaaliwa. Wao wanaamini kuwa wanapozaliwa, kazi yao kuu ni kuponda raha kwani hatima yao Mungu anaijua na hata wafanye nini hawawezi kuibadilisha.

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Kwa hivyo kazi yao hapa ni kukaa *sambejambe* na kuingojea hatima hiyo. Ukipiga alinacha utagundua kuwa asilimia kubwa ya watu wanaishi katika ufukara mkubwa lakini si kwa sababu hayo ndiyo majaaliwa yao kama wanavyodai, lakini ni kutokana na tabia ya kufanya *msirimbo miradi* yote iliyo mbele yao.

Maisha si majaaliwa. Hutegemea mipango na juhudi. Mtu asipojibidiisha na kupanga maisha yake vilivyo, basi bila shaka mambo *yatamwendea mvange* na ataishia kuishi maisha ya ufukara wa sina sinani. Ukitazama binadamu wengi katika nyanja mbalimbali, utaona kuwa hawana utaratibu imara wa kuendesha maisha yao. Chukua mfano wa vijana.Wao ndio waliokabiliwa vikali na tatizo hili. Wawapo shuleni, wengi wao hawana haja na elimu. Wanaamini kuwa shuleni ni pahali pa kuonjea utamu wa maisha huku wakingoja kubaleghe na kuoa au kuolewa. Wengi hujihusisha na vitendo vya ajabu kama kushiriki katika migomo. Sigara haziwatoki midomoni. Majira ya jioni hawapatikani tena shuleni kwani huwa wametorokea mijini na vitongojini kuponda raha. Dawa za kulevya nazo ndizo hizo. Wengine wanazielewa zote kwa majina hata wameshawahi kuonja kila sampuli ya dawa zenyewe. Si ajabu kuwa tayari baadhi yao ni wagonjwa wa ukosefu wa kinga mwilini. Wapo wale *mahiri* wa kufanya biashara yenyewe ya kusambaza dawa hizo za kulevya; walanguzi waliokubuhu hasa. Kuwepo kwao- shuleni hakuhusiani kwa vyovyote na elimu. La hasha. Ni mahali tu kwa kusukumia miradi yao hiyo. Wengine ni majambazi. Wao hushirikiana na wavunja sheria wengine kupora mali ya wenyewe bila ya mtu yeyote kuwashuku. Haya yote huweza kuonekana kama *yamepigwa chuku*. Lakini ukikumbuka hivi majuzi kifurushi kilichojaa bunduki kilipatikana chumbani mwa mwanafunzi mmoja chuoni, basi utaanza kuyaamini haya yote.

Wanafunzi wengine huifanya kazi yao kuu kuwa ile ya kuwahangaisha wenzao. Katika baadhi ya shule, wanafunzi hasa wa kidato cha pili hujihusisha na vitendo vya kuwadhulumu wenzao wa kidato cha kwanza. Wengine wamefika kiwango cha kuwatisha na hata kuwapiga walimu wao. Wawapo huko nyumbani huwa ni balaa tupu, baadhi yao huvaa mavazi ya ajabu. Kina dada huvaa nguo fupi kiasi kwamba utadhani wako uchi. Ukiwauliza kisa na maana wanakujibu kuwa eti ndio mtindo. Wengine huweka herini chungu nzima masikioni mwao na kujipaka rangi za kutisha midomoni. Wengine bila kusita hushirikiana kimwili na wavulana na hata wazee ambao huwafurahisha daima kwa *darahima* na zawadi kochokocho. Ugonjwa wa 'Ukimwi' si mgeni kwao. Sababu kuu ni kuwa wengine, hasa waliokulia mijini, wana mazoea ya kutembelea vilabu na kushiriki ulevi pamoja na ngono. Si ajabu kwamba baadhi yao *wameenda jongomeo* na wengine wako safarini kuelekea kuko huko. Wakikutana na kina dada watalii kutoka ng'ambo wanazuzuliwa na hizo ngozi zao nyeupe pepepe na kuapa kuwa nao pia ni lazima watakuwa kama wao. Wanafanya juu chini kutafuta ngwenje ili kujinunulia vipodozi aina aina vya kupaushia ngozi zao. Wasichana wengine hawasomi tena. Wametulia tuli kama maji mitungini humo majumbani wakiwanyonyesha wana wao waliopata kupitia harakati zao hizo.

Wavulana nao hawaachwi nyuma. Neno ‘nidhamu’ ni istilahi mpya kwao. Wao wanaishi leo, kesho itajililia. Wengine nywele wameziacha kuwa *matimtimu* utadhani ni wajukuu wa majemedari wa vita vya Mau Mau. Wamejitoboa mashimo chungu nzima masikioni ili wavae herini mbilimbili au tatutatu kulingana na mtindo uliopo. Wengine hata nywele wameonelea bora kuzisuka ili wafanane sawa bin sawa na akina dada. Na ili wasiachwe nyuma sana na kina dada hao, hawasahau kuvaa mikufu inayong'ara kuliko hiyo ya akina dada. Nayo mitindo ya nguo huzihangaisha akili zao saa ishirini na nne za kutwa. Macho na masikio yao hukaa chonjo kila dakika ili wafahamu ni mitindo gani mipya iliyoingia hasa kutoka ng'ambo kunakoishi wazungu wenyewe. Wengine nywele wameziweka 'kalikiti'. Suruali wanavaa zilizoganda mwilini utadhani zimewekwa gundi. Nao wengine wana mikururo ya marafiki wasichana. Ukiwauliza kisa na maana ya kutongoja hadi wakati ufike wanasema ndio mtindo. Ukiwauliza na 'Ukimwi je? *Wanakuchezesha kayamba* huku wakilumba kuwa Ukimwi ni porojo tupu; eti wamefanya vituko vyao miaka yote hiyo; inakuwaje *hawajaenda na ulele ngoma?*

Hata hivyo, kwa vile *unga wa manga si dawaya chongo*, baada ya pata shika zote hizo, kilichokuwa na mwanzo kinaanza kufikia hatima yake. Ukweli unaanza kuchukua mahali pake. Muda ambao wangetumia kujizatiti kwa minajili ya siku za baadaye wanashtukia ghafla kuwa tayari umeshawapa kisogo. Majuto na mikasa inawafuata unyo unyo.

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Ni muhimu sana vijana kufungua macho yao ili kuona mwanga.Wanafaa kuelewa fika kuwa ujana ni moshi tu. Dakika hii upo, dakika nyingine ushatoweka. Mungu alipoamua kuwa kila binadamu ni lazima apitie ujanani alikuwa na sababu maalumu. Ujana ni kipindi cha maisha cha kujifunga masombo kwa majukumu ya baadaye. Ni kipindi cha kujitafutia maarifa tunu. Iwapo hali ni kinyume, basi mambo hayana budi kwenda mrama

Maswali

1. Ipe taarifa hii kichwa mwafaka. **(alm1)**

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2. Eleza msimamo wa watu wengi kuhusu imani kwenye jaala. **(alm2)**

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3. Taja vitendo vyovyote vinne vinavyoonyesha upotovu miongoni mwa vijana. **(alm4)**

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4. Kutokana na taarifa; **eleza** jinsi vijana wanavyoambukizwa ugonjwa wa ukimwi **(alm3)**

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5. Unadhani ni mambo yapi mengine yanachangia tabia potovu kati ya vijana? **(alm2)**

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6. Toa maana ya: **(alm3)**

(a) Kufanya msirimbo

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(b) Unga wa manga si dawa ya chongo

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(c) Kwenda mrama

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UFUPISHO: (Alama 15)

Soma kifungu kisha uyajibu maswali yanayofuata.

Nidhamu ni kitu cha maana sana maishani mwa binadamu. Kila mwanafunzi anapaswa kuwa na nidhamu ya hali ya juu sana.Akiwa na nidhamu hiyo, atakuwa mtu mwadilifu, anayeweza kustahiwa na kusadikika katika mambo, shughuli na hali tofauti.

Kwanza, mtoto mwenye nidhamu huwa kama anga au nuru nyumbani mwao, shuleni na pia katika jamii.Watu wote wanampenda na kumheshimu. Wazee kwa vijana wote wanamtegemea kama msimamizi wa mambo nyeti ya maisha yao. Kwa hivyo, ni dhahiri shahiri kwamba mwadilifu hunufaika sana, kinyume na mkaidi ambaye wahenga walimwambia kwamba atakosa kufaidi hadi siku ya Idi.

Pili, huwadia nyakati ambapo huwa kuna jambo la busara, mathalani jukumu ama dhima fulani ambayo huhitaji tu mwakilishi mmoja darasani, shuleni au katika jamii. Watu hapana shaka watamteua yule mwadilifu kuchukua nafasi kama hiyo. Ndio maana viranja wanaoteuliwa shuleni, huwa ni wanagenzi ambao tayari wamekwishatiliwa katika mizani na kupigwa msasa madhubuti.

Vile vile, mwadalifu daima atajiepusha na shutuma na majanga yote yanayoweza kuchipuka. Kuna msemo maarufu, kwa busara yake iliyobusarisha mwadilifu kwamba “aliye kando haangukiwi na mti.”Pia waliambiwa kwamba, “ pilipili usiyoila yakuwashiani?”

Ni bayana kutokana na misemo hiyo miwili kwamba mwenye nidhamu hawezi kuhusishwa na majanga hatari yanayoweza kuyakumba watu.

Walakini ni vyema kujiuliza, je, nidhamu huanzia wapi, na kwa nini kuna baadhi ya ‘watoro’ ambao ni utovu wa nidhamu? Utovu wa nidhamu huanzia awali sana maishani mwa mja. Mtoto anapozaliwa, anategemea miongozo na mielekeo ya watu wazima ambao wamo mazingirani mwake. Ndipo wakale wale waliokaramka walisema kwamba mtoto akibebwa, hutazama kisogo cha mamake.

Hivi ni kusema kwamba, nidhamu au utovu wa nidhamu huanzia nyumbani hadi shuleni, kisha hupanuka hadi kufikia kiwango ambapo mja anatangamana na watu wote katika maisha yake. Ikiwa sehemu moja ya ukuaji wa nidhamu maishani mwa mja itasambaratika, basi hawezi akawa mkamilifu kinidhamu maishani mwake.

Kwa vile ni bayana kwamba mabaya yote ayatendayo duniani hulipwa na Mola papa hapa duniani,watovu wa nidhamu wote huishia kuangamia, ama kujuta mno kwa amali zao potovu. Ni kheri mja kujitahidi mwenyewe, kwani uhalifu haulipi chochote.

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a) Nini umuhimu wa nidhamu? (alama 7) (maneno kati ya 50-55)

Matayarisho

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Jibu

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(b) Bila kubadilisha maana, fupisha aya nne za mwisho. **(alama 8)** (tumia maneno 55-60)

Matayarisho

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Jibu

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3. MATUMIZI YA LUGHA (ALAMA 40)

(a) Taja mbili za likwidi **(Alm1)**

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(b)

i. Eleza maana ya kishazi **(Alm1)**

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ii. Onyesha vishazi katika sentensi ifuatayo

Nilipompata akilalama ndani ya darasa,nilimshauri kupunguza mawazo. **(Alm2)**

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(c) Andika sentensi hii upya bila kubadilisha maana ukitumia "O" rejeshi **(Alm2)**

Mwanafunzi alitumwa nyumbani juzi na hajapata karo hadi leo

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(d) Tumia kivumishi kimilikishi nafsi ya pili kutunga sentensi katika wingi **(Alm2)**

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(e) Eleza matumizi ya "na" katika sentensi ifuatayo;

Aisha aligongwa na gari nami nikampeleka hospitalini **(Alm2)**

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(f) Weka kitenzi hiki katika hali ya kuamrisha kulingana na maelezo mabano **(Alm1)**

–la (umoja)

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(g) Andika ngeli za nomino zifuatazo **(Alm2)**

(i) Kiwete

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(ii) Halmashauri

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(h) Kanusha

Mwanafunzi mtundu ameiba kitabu kilichonunuliwa jana. **(Alm2)**

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(i) Changanua kwa kutumia visanduku
Mwalimu na mwanafunzi waliimba wimbo mtamu jioni **(Alm4)**

(j) Tunga sentensi kudhihirisha matumizi mojamoja ya viwakifishi vifuatavyo. **(Alm3)**

i. Mshazari

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ii. Parandesi

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iii. Ritifaa

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(k) Andika katika ukubwa
Mke wa mzee huyu hupenda watoto sana **(Alm2)**

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(l) Tunga sentensi moja kutofautisha 'thamini' na 'dhamini' **(Alm2)**

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(m) Geuza sentensi hii hadi usemi wa taarifa
"Mtapokea mshahara wenu kesho," mkurugenzi mkuu akasema, "ninaendea pesa kwenye benki wakati huu." **(Alm3)**

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(n) Tunga sentensi na uonyeshe shamirisho na chagizo katika sentensi hiyo **(Alm4)**

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(o) Bainisha mofimu katika neno

Walichimba **(Alm2)**

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(p) Kwa kutumia mifano, tofautisha kati ya viwakilishi nafsi huru na viwakilishi nafsi viambata **(Alm2)**

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(q) Nyambua kitenzi kifuatacho katika kauli ya kutendesha **(alm1)**

Ogopa

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(r) Tunga sentensi kuonyesha wakati ujao hali timilifu **(alm1)**

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(s) Andika kisawe cha neno kilimo **(alm1)**

Mwaliko huo ulinishtua

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4. <u>ISIMU JAMII</u>

(a) i) Lafudhi ni nini? **(alm1)**

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ii) Eleza sababu mbili zinazosababisha uwepo wa lafudhi **(alm2)**

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(b) Andika sifa zozote saba za lugha utakayotumia kuwatangazia watu kinyang'anyiro cha soka kati ya timu ya Shujaa FC na Wafalme FC **(Alm7)**

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES TWO EXAMS

JINA: ……..

SHULE: ……

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

102/3 - KISWAHILI - KARATASI YA 3

FASIHI

Muda: Saa 2½

MAAGIZO

a) Andika jina lako na nambari yako katika nafasi ulizoachiwa hapo juu.

b) Jibu maswali **manne** pekee.

c) Swali la **kwanza** ni la **lazima.**

d) Maswali hayo mengine matatu yachaguliwe kutoka sehemu nne zilizobakia yaani tamthilia, Ushairi, Hadithi fupi na Fasihi Simulizi.

e) Usijibu maswali **mawili** kutoka **sehemu moja**.

SWALI	UPEO		ALAMA
1		20	
		20	
		20	
		20	
JUMLA			

SEHEMU YA A: FASIHI SIMULIZI 1. Swali la lazima

1. Soma utungo ufuatao kisha ujibu maswali

"Wewe ni mbumbumbu kiasi kwamba ukiona picha yako kwenye kioo unashangaa ulimwona wapi mtu huyo."

a .i. Bainisha kipera hiki **(alm1)**

ii. Bainisha sifa nne za kipera hiki **(alm4)**

iii. Kipera hiki kina faida gani katika jamii yako? **(alm5)**

iv) Bainisha changamoto zozote tano zinazoweza kumkumba mtu ambaye angependa kukusanya data kuhusu kipera hiki. **(alm5)**

b. Eleza namna jamii yako inavyojaribu kuhifadhi fasihi simulizi **(alm5)**

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SEHEMU YA B: TAMTHILIA YA BEMBEA YA MAISHA

2. "Unayafanya makubwa bure mwenzangu. Unafahamu vizuri kuwa hiyo si hulka yangu. Sasa mimi nina haja gani kuuvunja mji?"

(a) Eleza muktadha wa dondoo hili **(alm4)**

(b) Bainisha toni ya msemaji **(alm2)**

(c) Msemaji amepitia dhiki mbalimbali katika jamii yake, Tambua dhiki alizopitia **(alm4)**

(d) Onyesha namna maudhui ya mgogoro yanavyojitokeza katika tamthilia nzima **(alm10)**

3. Mwanamke anaonyesha maumbo mbalimbali, mazuri na mabaya. Jadili **(alm20)**

SEHEMU YA C:

HADITHI FUPI-MAPAMBAZUKO YA MACHWEO NA HADITHI NYINGINE

4. "mwanangu, nizike duniani unifunike…"

i) Fafanua muktadha wa maneno haya. **(alm4)**

ii) Taja na utolee mfano mbinu moja ya kimtindo inayojitokeza katika dondoo hili **(alm2)**

iii) Ukirejelea hadithi ya" Mzimu wa Kipwerere," Fafanua jinsi imani katika mambo ya kichawi yamejikita katika jamii. **(alm14)**

5. Jadili Matumizi Ya Pombe Haramu Na Athari Zake Katika Hadithi Kila Mchezea Wembe **(Alm20)**

SEHEMU YA D:
USHAIRI

6. Soma shairi hili kisha ujibu maswali yafuatayo.

Nikumbuke mwanangu,

Kila asubuhi unapoamka

Kwenda kazini,

Unapochukua sabuni ya kunukia, Na dodoki jororo.

Na kopo la koligeti,

Kwenda kukoga hamumuni,

Penye maji ya bomba,

Yaliyochujwa na kutakaswa,

Mororo…

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Kumbuka nyakati zile,

Za staftahi ya sima na mtama,

Ndizi na nagwa,

Kwa mchicha na kisamvu,

Na ulipokwenda choo,

Ulilia kwa uchungu

Nikumbuke,

Unapotoka nyumbani asubuhi maridadi,

Katika suti ya moto,

Miwani ya pembe,

Viatu vya Paris,

Saa ya dhahabu,

Unapong'oka kwenda kazini,

Katika Volvo,

Katika njia iliyosakafiwa

Kumbuka,

Nyakati zile,

Mimi na mamako,

Tulinyojidamka,

Mara tu kwale wa kwanza,

Alipoanza kukoroma,

Jogoo wa kwanza hajawika,

Mimi nikachukua mundu na panga,

Mamako jembe na shoka,

Tukaelekea porini,

Kufyeka na kuchimbua

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Nahubaki wajiandaa kwenda shule…

Nikumbuke,

Saa za jioni,

Unapovalia kitanashati.

Maswali

(a) Thibitisha kuwa utungo huu ni shairi **(alm2)**

(b) Fafanua toni ya utungo huu **(alm1**)

(c) Huku ukitoa mifano,linganua kati ya mistari toshelezi na mistari mishata **(alm4)**

(d) Eleza maudhui yoyote matatu yanayojitokeza kwenye shairi **(alm6)**

(e) Eleza hulka zozote nne za nasfi nenewa **(alm4)**

(f) Bainisha mbinu za kimtindo kwenye vifungu vifuatavyo. **(alm3)**

i.Kumbuka nyakati zile

ii. Na kopo la koligeti

iii. Mimi nikachukua mundu na panga

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES TWO EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

TERM 2
MATHEMATICS PP1 (QUESTION PAPER)
FORM 3
TIME 2½ HOURS

INSTRUCTIONS TO CANDIDATES:

- Write **your name** and **Admission Number** in the spaces provided above
- This paper contains **two sections;** Section **I** and section **II.**
- Answer **all** the questions in section **I** and only **five** questions from section **II.**
- All workings and answers **must** be written on the question paper in the spaces provided below each question.
- Marks may be given for correct working even if the answer is wrong.
- Non-programmable silent electronic calculators and KNEC mathematical tables may be used except where stated otherwise
- Show all the steps in your calculations, giving your answers at each stage in the spaces below each question

For Examiner's Use Only;

Section I

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

Section II

Question	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**TOTAL**
Marks									

GRAND TOTAL

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SECTION 1(50 MARKS)

Answer ALL questions in the section

1. The dimensions of a rectangle are measured and given as 6.9 cm by 3.06 cm, Calculate to 4 s.f. the percentage error in the area. **(3mks)**

2. Make q the subject of the formula. **(3mks)**

$$P = \sqrt[3]{\frac{nq - m}{q}}$$

3. A line L is perpendicular to the line $\frac{2}{3}x + \frac{5}{7}y = 1$. Given that L passes through (4, 11), find:

a. Gradient of L; **(2mks)**

b. Equation of L in the form $y = mx + c$, where m and c are constants. **(2mks)**

4. The sum of the interior angles of an **n**-sided polygon is 1260°. Find the value of **n** and hence deduce the polygon. **(3mks)**

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5. John bought two shirts and three pairs of trousers at ksh 1750.If he had bought three shirts and two pairs of trousers he would have saved sh 250.Find the cost of a shirt and a trouser. **(3mks)**

6. If $\frac{1}{3-\sqrt{5}} - \frac{2+2\sqrt{5}}{3+\sqrt{5}} = a + b\sqrt{c}$, find the value of a, b and c **(3mks)**

7. Solve the following inequalities and represent the solution on a number line and hence state the integral values of x: $7x - 4 \leq 9x + 2 < 3x + 14$ **(4mks)**

8. The LCM of three numbers is 7920 and their GCD is 12. Two of the numbers are 48 and 264. Using factor notation find the third number if one of its factors is 9. **(3mks)**

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9. Peter is 15m away from the bottom of a tower. He spots a bird on top of the tower at an angle of elevation of 62^0. Also John spots the same bird at an angle of elevation of 30^0. Find the distance between John and Peter if they are on the same line. **(3mks)**

10. Use tables of reciprocals and square roots to evaluate. **(3mks)**

$$\sqrt{\frac{2}{0.5893} - \frac{1}{846.3}}$$

11. Two similar cans have different heights 8cm and the other one 10cm. If the surface area of the larger can is $480cm^2$, find the surface area of the smaller can. **(3mks)**

12. The sum of digits formed in a two-digit number is 16. When the number is subtracted from the number formed by reversing the digits, the difference is 18. Find the number. **(3mks)**

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13. Given that $4\boldsymbol{p} - 3\boldsymbol{q} = \begin{pmatrix} 10 \\ 5 \end{pmatrix}$ and $p + 2q = \begin{pmatrix} -14 \\ 15 \end{pmatrix}$ **(3mks)**

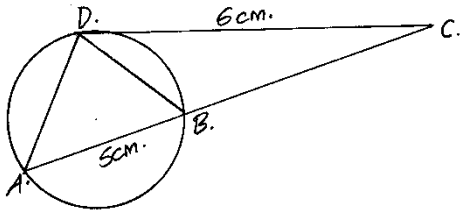
14. Solve for x in the equation.

$$\frac{1}{2}\log_2 81 + \log_2\left(x^2 - \frac{x}{3}\right) = 1$$ **(3mks)**

15. Find the number of terms that will give a sum of 800 in the series.

$2 + 6 + 10 + \ldots\ldots$ **(3mks)**

16. In the figure below, DC = 6cm, AB = 5cm. Determine BC if DC is a tangent. **(3mks).**



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SECTION II: (50 MARKS)
Answer only FIVE questions from this section

17. A bus travelling from Nakuru to Mandera averages at a speed of 70km/hr and on the return journey, the bus averages 20km/hr slower and takes 4 hours longer than on the journey from Nakuru to Mandera.

a) Find the distance between Nakuru and Mandera. **(4mks)**

b) Diesel consumption is 0.32 litres per kilometre on the journey from Nakuru to Mandera. However, this rate increases by *25%* on the return journey. Calculate the amount of diesel the bus consumes for the trip. **(3mks)**

c) If diesel costs sh.65 per litre and the bus makes 3 round trips in a week, determine the total cost of diesel required to run the bus for 5 months. **(3mks)**

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18. A field was surveyed and its measurements recorded in a field book as shown below.

	F	
	100	
E 40	80	
	60	D 50
C 40	40	
	20	B 30
	A	

(a) Using a scale of 1cm to represent 10m, draw a map of the field. **(4mks)**

(b) Calculate the area of the field:

(i) in square metres. **(4mks)**

(ii) in hectares. **(2mks)**

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19. (a) Find the quadratic equation whose roots are $\frac{-3}{4} and \frac{2}{3}$ and write it in the form $ax^2 + bx + c = 0$ where a, b and c are integers. **(3mks)**

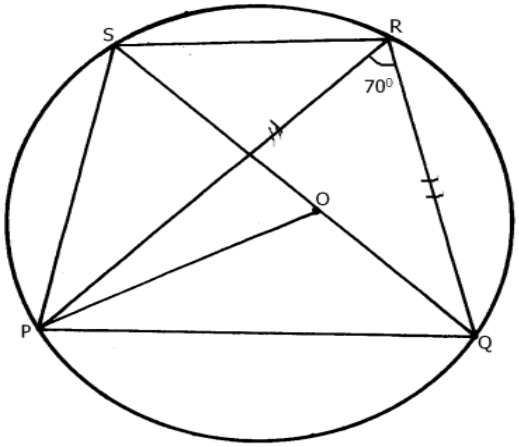
(b) The length of a floor of a rectangular hall is 9m more than its width. The area of the floor is $136m^2$.

i) Calculate the perimeter of the floor **(4mks)**

ii) A rectangular carpet is placed on the hall leaving am area of $64cm^2$. If the length of the carpet is twice its width, determine the width of the carpet **(3mks)**

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20. The figure below shows a circle centre O. PQRS is a cyclic quadrilateral and QOS is a straight line.



Giving reasons for your answers, find the value of:

a) <PRS. **(2mks)**

b) <POQ. **(2mks)**

c) <RPS. **(2mks)**

d) <PSR. **(2mks)**

e) Reflex <POS. **(2mks)**

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21. The table below shows the length of 40 seedlings.

Length in (mm)	Frequency
118-126	3
127 – 135	4
136 – 144	10
145 – 153	12
154 – 162	5
163 – 171	4
172-180	2

Determine

(a)(i) The modal class **(1mk)**

(ii) The median class **(2mks)**

(b)(i) The mean of the seedlings **(4mks)**

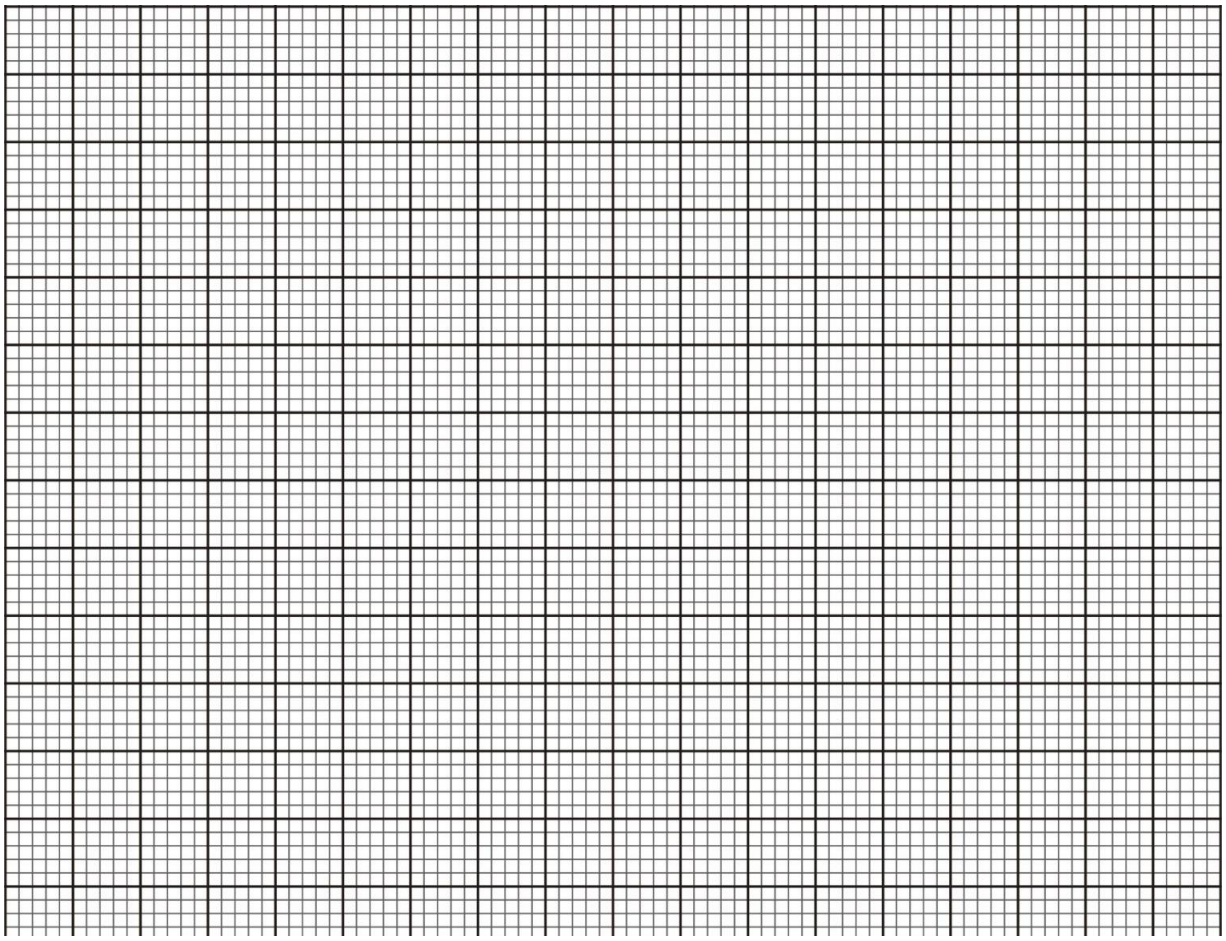
(ii) The median of the seedlings **(3mks)**

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22. (a) Complete the table for y = Sin x + 2 Cos x. **(2mks)**

x	0	30	60	90	120	150	180	210	240	270	300
Sin x	0			1.0		0.5		-0.5			-0.87
2 cos x	2			0		-1.73		-1.73			1.0
y	2			1.0		-1.23		-2.23			0.13

(b) Draw the graph of y = Sin x + 2 cos x. **(3mks)**



(c) Solve sin x + 2 cos x = 0 using the graph. **(2mks)**

(d) Find the range of values of x for which $y \leq -0.5$ **(3mks)**

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23. The table below shows income tax rates

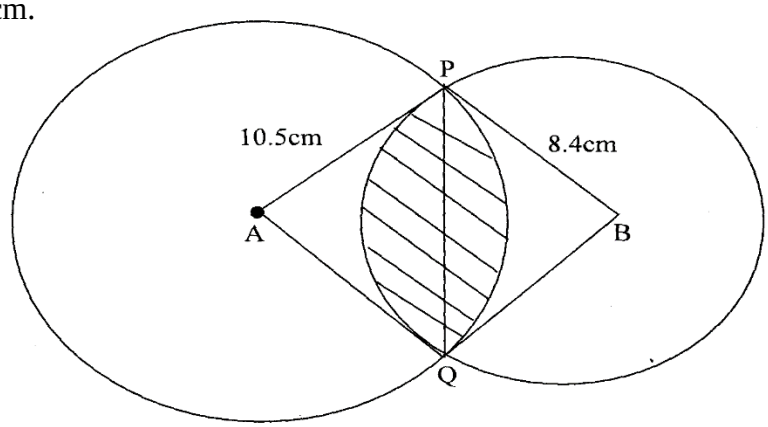
Income in K£ p.a	Tax rate in sh per £
0 – 5808	2
5809 – 11280	3
11281 – 16752	5
16753 – 22224	7
Over 22224	11

a) Mr. Juma claiming tax relief of Ksh 1056 per month discovered that a total of Ksh 18500 is deducted from his total earnings in form of income tax. Calculate Mr. Juma's taxable income in Ksh per month. **(6mks)**

b) Mr. Juma other deductions include:
5% of basic salary as cooperative shares
2% of basic salary as WCPS
Given that his taxable allowances is Ksh 28400, calculate his net pay **(4mks)**

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24. The figure below shows two circles of radii 10.5 and 8.4cm and with centres A and B respectively. The common chord PQ 9cm.



(a) Calculate angle PAQ. **(2mks)**

(b) Calculate angle PBQ. **(2mks)**

(c) Calculate the area of the shaded part. **(6mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES TWO EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

END TERM 2 EXAM
FORM 3
MATHEMATICS PAPER 2.
TIME:2HRS 30MIN

Instructions.
Answer all questions in this section in the spaces provided.

SECTION A : 50MKS.

1. Use mathematical tables to evaluate: **(4mks)**

$$\frac{3\sqrt{0.8423 \times 72.5}}{930.5}$$

2. After how many y years would kshs. 15000 amount to ksh 24015.50 at a rate of 16% p.a. **(3mks)**

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3. Three years ago, Juma was three time as old as Ali. In two years time, the sum of their ages will be 62. Determine their present ages. **(3mks)**

4. Evaluate:
$^{1}/_{3}$ of (2 ¾ - 5 ½) x 3 $^{6}/_{7} \div {}^{9}/_{4}$ **(3mks)**

5. Find the height of an isosceles triangle if the equal sides are each 26cm and the base is 48cm long. **(2mks)**

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

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

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

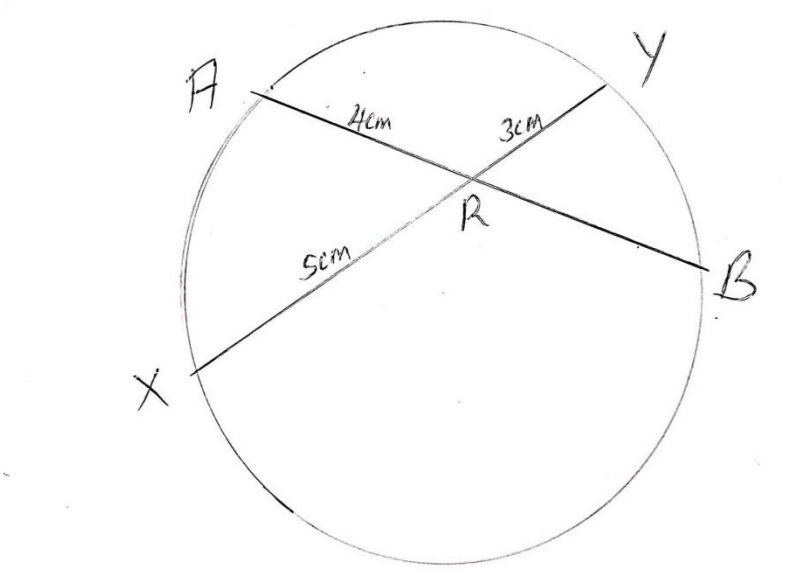
7. Solve the following quadratic equation by completing the square. **(3mks)**
$2x^2 – 5x + 3 = 0$

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8. Make A the subject of the formula. **(3mks)**

$$T = \frac{2m}{n}\sqrt{\frac{L - A}{3K}}$$

9. In the figure below, chords AB and XY interest in a circl at R. Given that AR = 4cm, XR = 5cm and RY=3cm. find AB. **(2mks)**



10. Given the matrix M = $\begin{pmatrix} 3 & -5 \\ 5 & 2 \end{pmatrix}$ Find the inverse of M and hence or otherwise, solve the simultaneous equations. **(3mks)**

$3x - 5y = -9$

$5x - 2y = 16$

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11. Solve the equation $\frac{2}{x-1} - \frac{1}{x+2} = \frac{1}{x}$ **(3mks)**

12. Solve for x in the equation: **(3mks)**

Log (x-1) = log 12 – log (x-2)

13. Using binomial expression, expand and simplify $(1 - 2x)^3$ up to the term x^3. **(1mk)**

b. Use the simplified expansion in (a) above to calculate to 4 decimal places the approximate value of $(0.98)^3$ **(3mks)**

14. A trader bought two brands of sugar labeled Grade A and Grade B. Grade A sugar costs sh 60 per kg and grade B sugar costs sh 50 per kg. he mixed them in a ratio such that after selling the mixture at sh 81 per kg, he made a profit of 50%. Determine the ratio in which he mixed grade A sugar to grade B. **(3mks)**

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15. A quantity P is partly constant and partly varies as the square of Q when Q=2, P= 40 and when Q=3 P=65. Determine the value of P when Q=4. **(3mks)**

16. A cold water tap can fill a bath in 6 minutes while a hot water tap can fill it in 12 minutes. The drainage pipe can empty the bath in 8 minutes. All the three are opened fully for 3 minutes and then the hot water tap is closed. How many more minutes will it take to fill the bath? **(4mks)**

SECTION B (50 MKS)

Answer any five questions in this section.

17. Personal tax relief p.a is sh 12672 p.a

Income (K£per annum)	Rate (Sh per pound)
1-5808	2
5809-11280	3
11281-16752	4
16753-22224	5
Excess over 22224	6

a. Mr. Omondi earns a basic salary of sh 15000 per month. In addition, he gets a medical allowance of sh 2400 and a house allowance of sh 12000. Use the tax brackets above to calculate the tax he pays in a year. **(10mks)**

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18. A student at Anestar school tossed a coin three times and recorded the results on every successive toss.

a) By use of a tree diagram, show all the possible outcomes. **(3mks)**

b) Find the probability of getting:

i. One head **(1mk)**

ii. Two heads and a tail, in the order. **(1mk)**

iii. Two heads and a tail, in any order. **(1mk)**

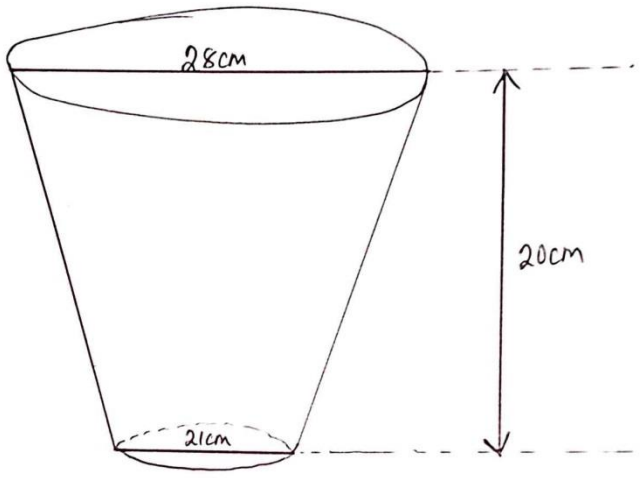
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iv. Three heads. **(1mk)**

v.At least one head. **(1mk)**

vi. No head. **(2mks)**

19. The diagram below shows a frustrum made by cutting off a small cone on a plane parallel to the base of the original cone. The frustum represents a bucket with the open – end diameter of 28cm and the bottom diameter of 21cm. The bucket is 20cm deep as shown. Calculate to one decimal place, the capacity of the bucket in litres. **(10mks)**



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20. Town B is 180km on a bearing of 050^{O} from town A. another town C is on a bearing of 110^{O} from town A and on a bearing of 150^{O} from town B. A fourth town D is 240km on a bearing of 320^{O} from town A. using a scale drawing 1cm to represent 30km, calculate to the nearest kilometer:

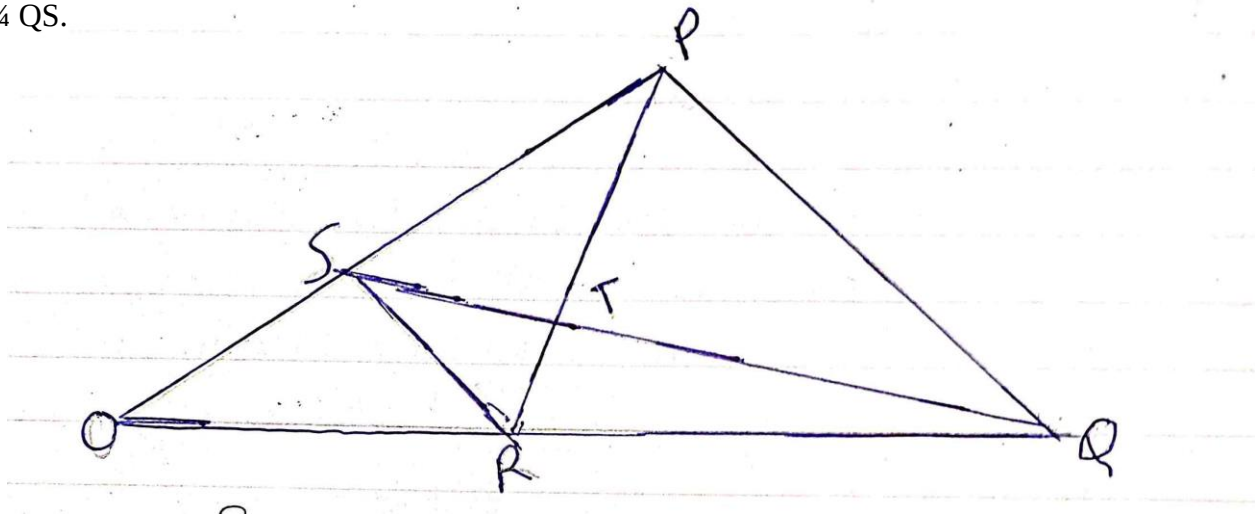
a) The distance AC (2mks)

b) The distance CD (2mks)

c) The distance BC. (2mks)

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21. In the figure below OPQ is a triangle in which OS= $^1/_3$ OP and OR = $^1/_3$OQ. T is a point on QS such that QT = ¾ QS.



a) Given that OP = p and OQ=q, express the following vectors in terms of p and q.

i. SR **(2mks)**

ii. QS **(2mks)**

iii. PT **(2mks)**

iv. TR **(2mks)**

b) Hence or otherwise show that the points P,T and R are collinear. **(2mks)**

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22. The first term of an arithmetic progression is 2, the sum of the first 8 terms of the AP is 240.

i. Find the common difference of the AP. **(2mks)**

ii. Given that the sum of the first n terms of the AP is 1560, find n. **(2mks)**

b. The 3^{rd}, 5^{th} and 8^{th} term of another AP form the first three terms of a G.P if the common difference of the AP is 3. Find

i. The first term of G.P **(4mks)**

ii. The sum of the first 9 terms of the GP to 4 s.f **(2mks)**

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23. James is a sale executive earning a salary of ksh. 20,000 and commission of 8% for the sales in excess of kshs. 100,000. If in January 2010 she earned a total of ksh. 48,000 in salaries and commissions.

a. Determine the amount of sales he made in the month. **(4mks)**

b. If the total sales in the month of February and March increased by 18% and they dropped by 25% respectively. Calculate:

i.James's commission in the month of February. **(3mks)**

ii. His total earning in the month of March. **(3mks)**

24. At the beginning of the year 2000, Gachago bought two houses, one in Thika and another one in Nakuru each at sh. 1,240,000. The value of the house in Thika appreciated at a rate of 12% p.a.

a) Calculate the value of the house in Thika after 9 years to the nearest shillings. **(2mks)**

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b. After n years, the value of the house in Thika was 2,741,245 while the value of the house in Nakuru was 2917231.

i. Find n **(4mks)**

ii. Find the annual rate of appreciation of the house in Nakuru. **(4mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES TWO EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

Term 2
PHYICS (232/1)
FORM THREE (3)
PAPER 1
Time: 2 Hours

Instruction to candidates

- This paper consists of two sections: **A** and **B**
- Answer all questions in section **A** and **B** in the spaces provided
- All workings **must** be clearly shown, and Use the **CONSTANTS** given where neccessary.

✓ **Gravitational acceleration, 'g' = 10m/s^2**

- Silent, non-programmable calculator may be used

FOR EXAMINER'S USE ONLY:

QUESTION	MARKS	CANDIDATES' SCORE
1-10	25	
11	11	
12	13	
13	11	
14	12	
15	08	
TOTAL	80	

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SECTION A (25 MARKS)

1. Explain the meaning of the term 'thermodynamics' as a branch of physics **(1mk)**

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2. A wooden block is pulled on the surface of a table by a constant force of 5N as shown in figure 1 below. Other than the weight; Label, on the diagram, any other force which acts on the wooden block **(1mk)**

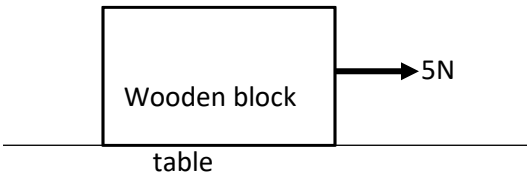


Figure 1

3. The figure 2, below shows the boundary of a school farm. Each square measures $1m^2$. Determine the area of the school farm in square kilometer. **(3mks)**

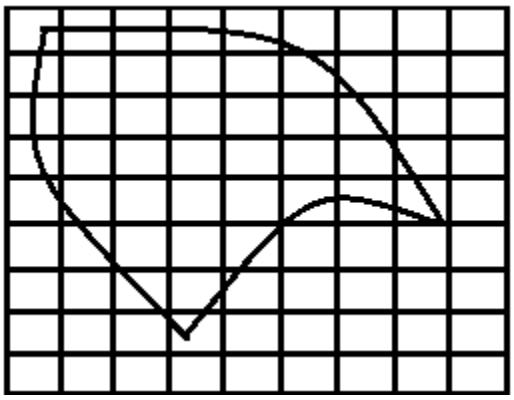


Figure 2

4. The figure 3, below shows a light body floating in an open container as shown.

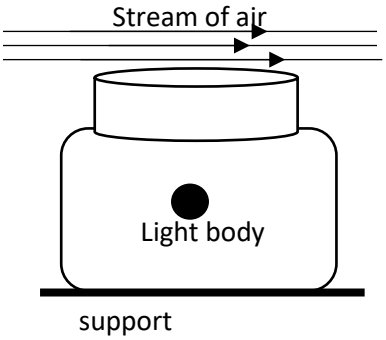


Figure 3

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State and explain the observation made on the light body when the speed of air is increased **(2mk)**

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5. A ball is kicked vertically upwards from the ground at a velocity of 20m/s. Sketch a velocity-time graph of the ball for the entire flight period. **(3mks)**

6. The figure 4 below shows a flask fitted with a glass tube dipped into a beaker containing water at room temperature. The cork fixing the glass tube is tight.

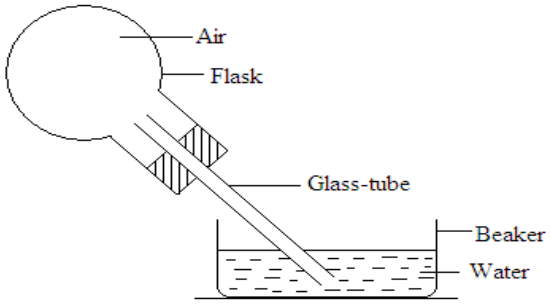


Figure 4

A piece of cloth was dipped into melting ice and then placed in contact with the flask. State and explain the observation made. **(2mks)**

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7. Explain what is meant by 'derived physical quantity' giving one example from the basic quantity 'time' **(2mks)**

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8. Figure 5 below shows a uniform metre-rule pivoted at the 70cm mark. It is balanced by a weight of 2N suspended at the 95cm mark.

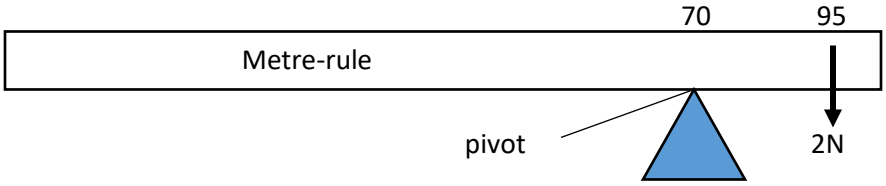


Figure 5

a) Identify all the forces producing anti-clockwise moment **(1mk)**

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b) Determine the mass of the metre-rule **(2mks)**

9. A parachute falling through the air attains terminal velocity after a short-time. State the reason why it attains terminal velocity **(2mks)**

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10. The figure 6, below shows the scale of Vernier calipers used for measuring the diameter of a ball-bearing. The scale has a zero-error of 0.02cm.

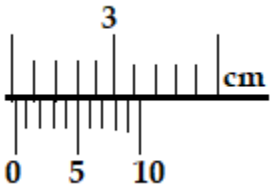


Figure 6

Determine:

a) Diameter of the ball-bearing **(1mk)**

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b) the surface area of the ball-bearing **(2mks)**

SECTION B (55 MARKS)

11.

a) State newton's second law of motion **(1mk)**

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b) Define the following terms:

i.Impulse **(1mk)**

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ii.Momentum **(1mk)**

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c) An object of mass 150kg moving at 20m/s collides with a stationary object of mass 90kg.They couple after collision. Determine the:

i) Total momentum before collision **(2mks)**

ii) Total momentum after collision **(1mk)**

iii) Their common velocity after collision **(2mks)**

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iv) State the assumption made in part (iii) above **(1mk)**

d) Athletes competing in high-jump during the Olympics are usually made to land on a thick soft mattress. Explain **(2mks)**

12.

a) Distinguish between terminal velocity and uniform velocity **(1mk)**

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b) A leaf of tree and a stone of equal masses are both released simultaneously from the same height above the ground. The leaf reaches the ground later after the stone had reached. Explain **(2mks)**

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c) A car sets out from rest with constant acceleration of $0.5m/s^2$ for 10s. It then continues at a constant velocity for further 25s and then decelerates to rest in 5s.

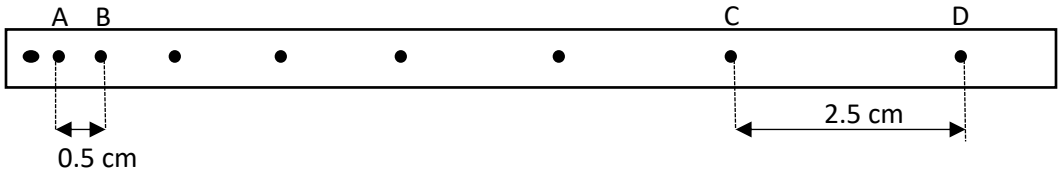
(i) Draw a velocity-time graph for the whole journey. **(2mks)**

(ii) find the average speed for the whole journey. **(3mks)**

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d) Figure 7 shows the motion of a trolley on a ticker timer. The ticker has a frequency 50 Hz.

Figure 7



Determine:

i. Initial velocity between A and B **(2mks)**

ii. Final velocity between C and D **(1mk)**

iii. Acceleration of the trolley during the motion **(2mks)**

13.

a) In a given machine, state two factors that would determine the size of mechanical advantage of the machine. **(2mks)**

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b) Figure 8 shows an arrangement of pulley systems of a combined velocity ratio 5.

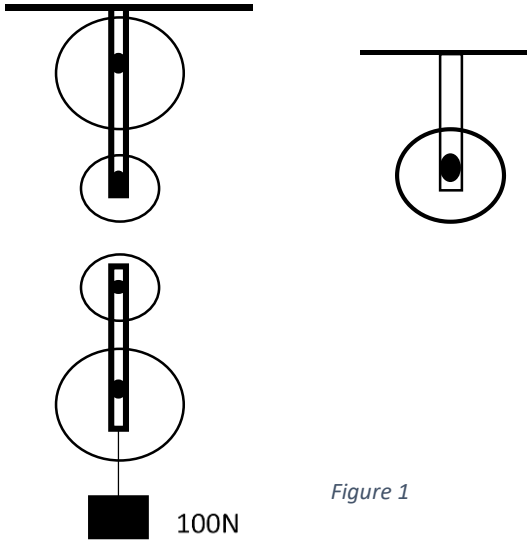


Figure 1

i. Complete the pulley arrangement showing how an effort of 50N is applied to lift the load **(1mk)**

ii. Determine the mechanical advantage and the efficiency of the pulley system

Mechanical advantage **(2mks)**

Efficiency **(2mks)**

iii. If in the pulley system in figure 8, the effort arm moves down by 80 cm, determine the height through which the load would move **(2mks)**

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c) A compressed spring with a load attached to one end and fixed at the other end. The spring is released as shown in figure 9.

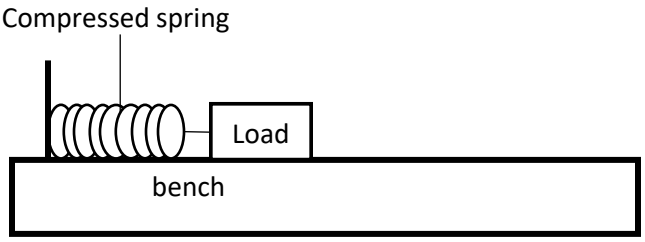


Figure 8

On the same axes, sketch the variation of potential energy, kinetic energy with time **(2mks)**

14.

a) State Hooke's law. **(1mk)**

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b) You are provided with the following apparatus: a spiral spring with pointer attached at one end, five-20g masses, metre-rule, retort-stand with clamp.

i.Describe an experiment that could be used to verify Hooke's law using the provided apparatus. **(6mks)**

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ii. The following graph in figure 10, represents an analysis from the experiment in (b, i) above.

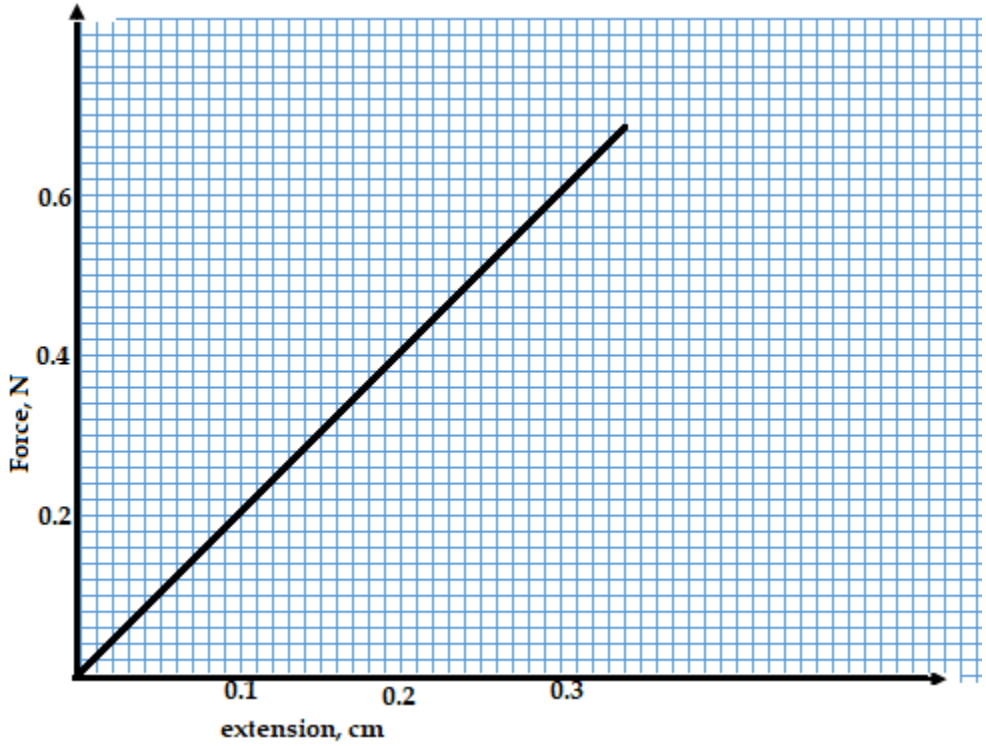


Figure 9

Determine the work-done on the spring when a load of 40g was hung on it. **(3mks)**

c) State any two applications of a compressed spring **(2mks)**

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15.

a) State the kinetic theory of matter **(1mk)**

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b) A partially filled balloon is placed in a bell jar with its open end placed on a thick glass plate as shown in ***figure 11.*** The contact between the jar and the glass plate is greased to make it air tight:

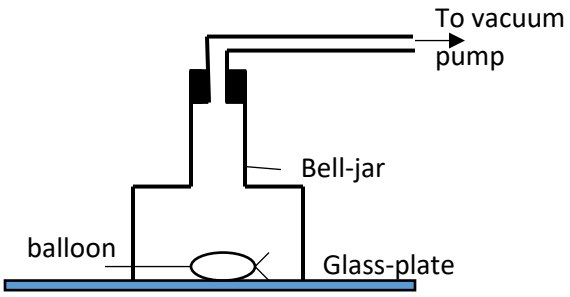


Figure 10

i.State and explain what happens to the balloon when air in the ball jar is slowly evacuated **(2mks)**

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ii. Two samples of bromine vapor are allowed to diffuse separately under different conditions, one in a vacuum and the other in air. State with reasons the conditions in which bromine will diffuse faster **(2mks)**

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c) Give a reason why gases are more compressible than liquids **(1mk)**

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d) In an experiment to demonstrate Brownian motion, smoke was placed in air cell and observed under a microscope. Smoke particles were observed to move randomly in the cell. State and explain the would be most likely observation if the temperature in the smoke cell was raised. **(2mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES TWO EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

Term 2
PHYICS (232/2)
FORM THREE (3)
PAPER 2
Time: 2 Hours

Instructions to candidates

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

For Examiner use only

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

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SECTION A (30 marks)

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

1. A pinhole camera is used to take a photograph. What happens to the image formed if the hole is:

(i) Small **(1mk)**

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(ii) Large **(1mk)**

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2. Figure 1 below shows the features of a gold-leaf electroscope

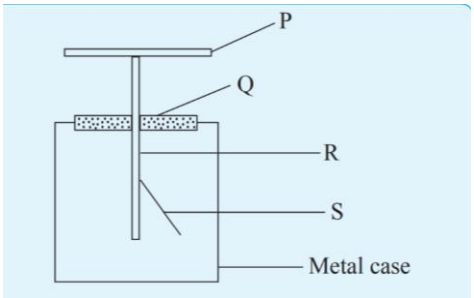


Figure 11

(i) Name the parts P and S. **(2mks)**

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(ii) Explain the purpose of the metal case. **(1mk)**

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3. Figure 2 below shows the set up for a simple cell.

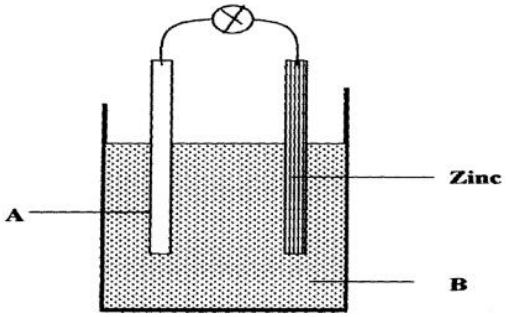


Figure 12

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a) Name the Electrode A and the solution B **(2mks)**

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b) State two reasons why the bulb goes off after a short time **(2mks)**

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4. State two ways of increasing the strength of an electromagnet **(2mks)**

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5. Figure 3 below is used to study sound in vacuum.

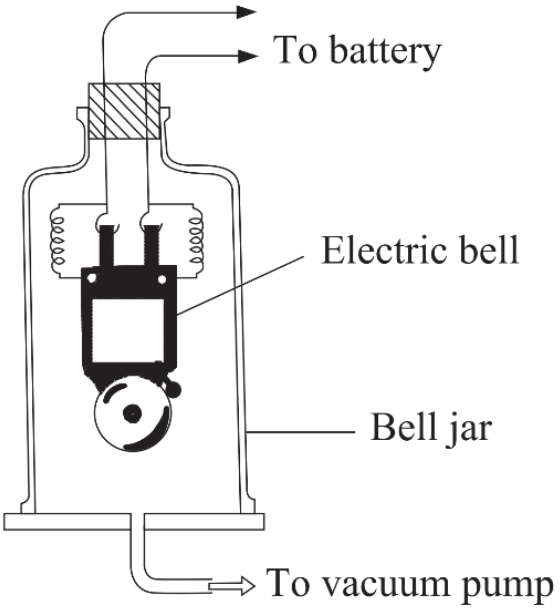


Figure 13

As air is gradually pumped out of the jar, it is noted that the sound from the bell slowly fades away to the extent of almost getting inaudible. Explain. **(1mk)**

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6. A boy stands 190 m from a high wall and claps his hands. If he hears an echo 1.3 seconds later, calculate the speed of sound in air**.** **(3mks)**

7. One way of demagnetizing bar is to place it in a solenoid in which an alternating current (ac) flows. How is the demagnetization achieved? **(1mk)**

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8. The frequency of a water wave is 6.4 Hz. If the wave travels a distance of 8 m in 4 seconds, find its wavelength**.** **(3mks)**

9. State two factors that account for the concave mirror being suitable for use by dentists when inspecting teeth of a patient. **(2mks)**

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10. The speed of light in air is 3×10^8 m/s. Calculate the speed of light in a glass of refractive index 1.5. **(2mks)**

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11. Explain why ammeters are always connected in series and voltmeters in parallel with the components in electrical circuits **(2mks)**

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SECTION B: 50 MARKS

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

12. (a) State the laws of refraction **(2mks)**

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(b) The graph in figure 4 below was obtained by form 3 students from an experiment they conducted to verify Snell's Law. Use the graph to determine the refractive index of the transparent material use. **(2mks)**

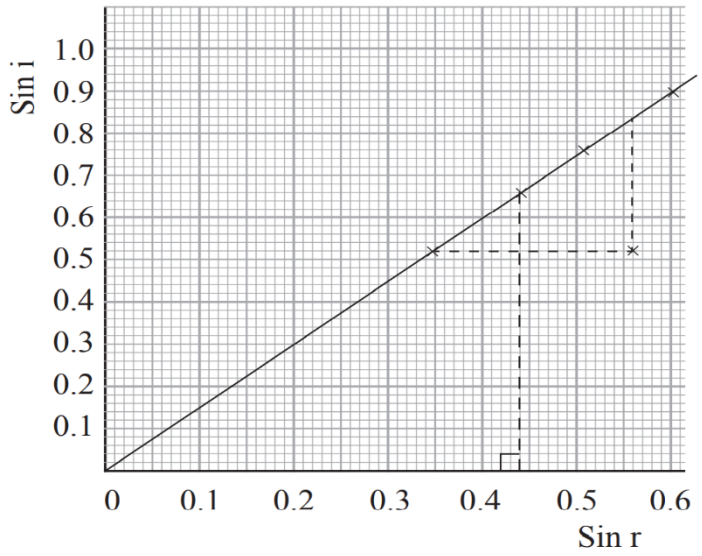


Figure 14

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(c) (i) What do you understand by the term critical angle? **(1mk)**

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(ii) What conditions are necessary for total internal reflection to occur? **(2mks)**

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(iii) Diamond has refractive index of 2.4. Calculate critical angle**.** **(2mks)**

(iv) State one advantage of using glass prisms over mirrors in a periscope**.** **(1mk)**

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13. (a) State Ohm's law. **(1mk)**

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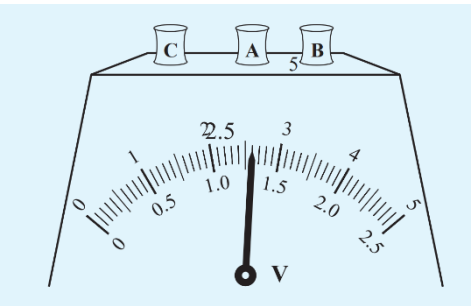
(b) What would be the effect on the resistance of a metal wire if its diameter is increase? **(1mk)**

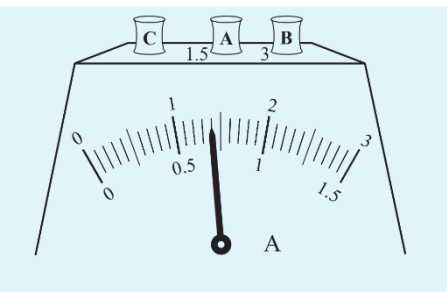
……

……

……

(c) A student connected an ammeter and voltmeter in a circuit and obtained the results as shown in the meters below.





Determine the reading on each of the instruments if he used:

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(i) The common terminal C and terminal A for the ammeter. **(1mk)**

……

……

……

(ii) The common terminal C and terminal B for the voltmeter**.** **(1mk)**

……

……

……

(d) Six resistors are connected in a circuit as shown in the figure 5 below.

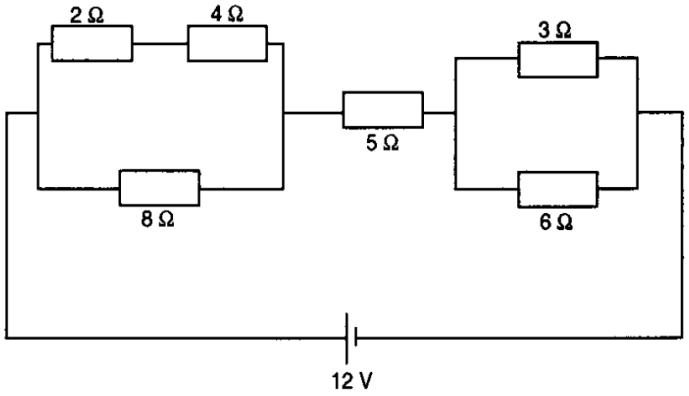


Figure 15

(i) Calculate total resistance **(3mks)**

(ii) Total current through the circuit **(2mks)**

(iii) The current through the 8 Ω resistor **(3mks)**

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

……

……

(b) Figure 6 shows a current-carrying conductor, gripped by the right hand. State what the direction of the thumb and the other fingers indicate. **(2mks)**

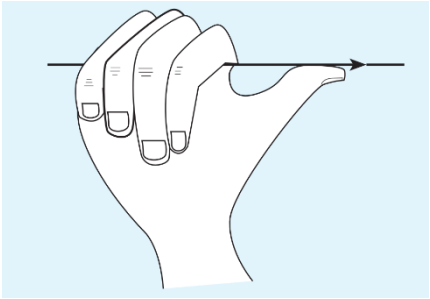


Figure 16

……

……

……

(c) Describe how the type of polarity of a magnet could be experimentally determined. **(3mks)**

……

……

……

……

……

(d) Figure 7 illustrates a circuit diagram of an electric bell.

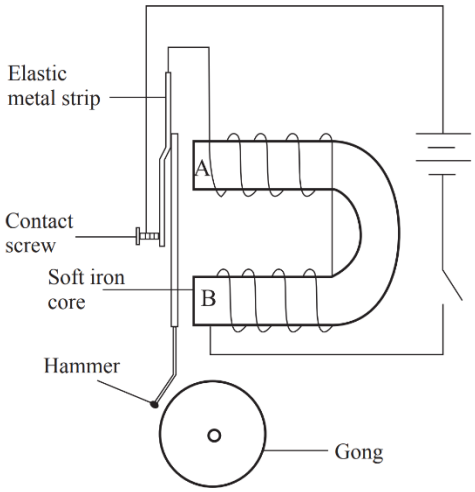


Figure 17

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(i) Identify poles A and B of the electromagnet**.** **(2mks)**

……

……

……

……

(ii) Explain how the bell works. **(3mks)**

……

……

……

……

……

15. (a) State the condition under which a concave mirror forms:

(i) A virtual image **(1mk)**

……

……

(ii) Image at infinity **(1mk)**

……

……

(b) The length of a pinhole camera is 8 cm. It forms an image of linear magnification 0.25. Find the distance between the object and the camera **(3mks)**

(c) Illustrate by ray diagram construction the formation of the image for an object placed before a convex mirror. **(3mks)**

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(d) An object and its image are on opposite sides of a mirror of focal length15cm.If the image height is 3 times that of the object:

(i) State what type of mirror it is**.** **(1mk)**

……

……

(ii) Determine the object and image distance **(3mks)**

16. (a) Distinguish between longitudinal and transverse waves. **(2mks)**

……

……

……

……

(b) Figure 8 shows a displacement distance graph of a transverse wave:

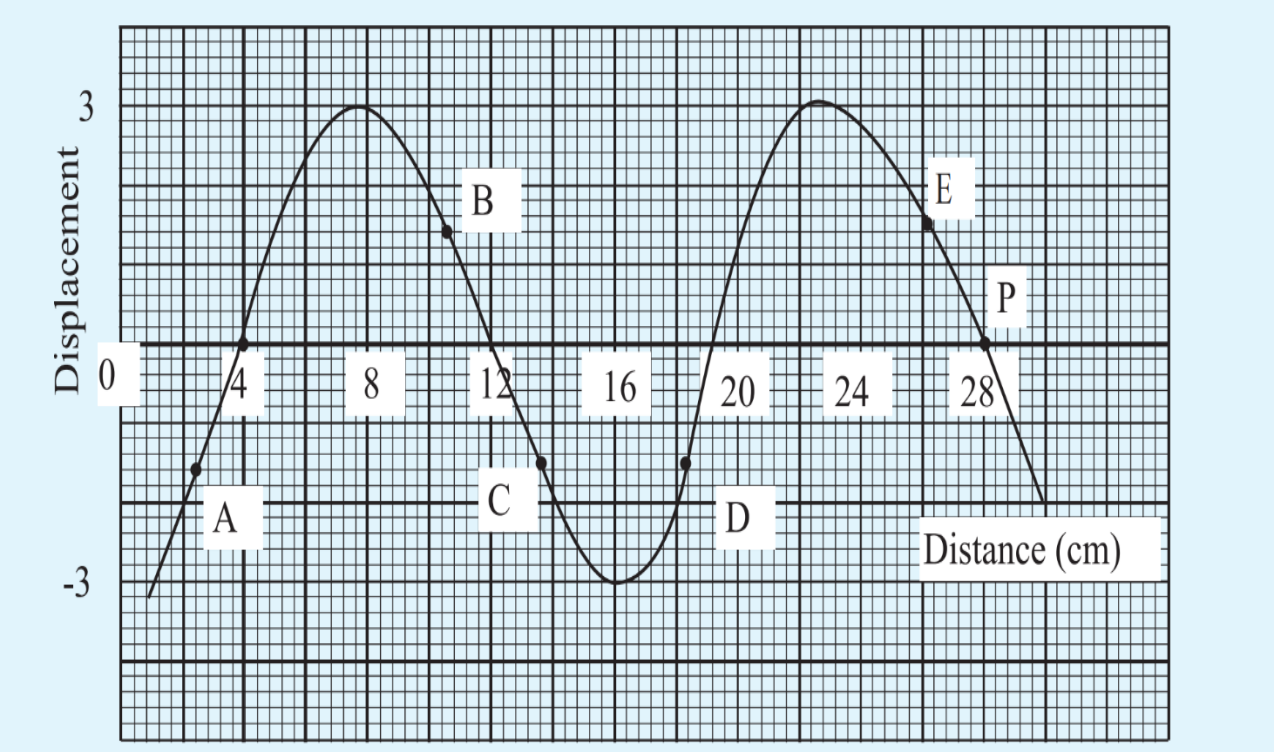


Figure 18

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(i) Find the amplitude. **(1mk)**

(ii) Determine wavelength. **(1mk)**

(iii) If time taken by the wave to move from O to P is 0.14 seconds, find the frequency of the wave **(3mks)**

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Term 2

PHYICS (232/3)

FORM THREE (3)

PAPER 3 (PRACTICAL)

Time: 2 ½ Hours

INSTRUCTIONS TO CANDIDATES

a) Answer all questions in the spaces provided in the question paper.

b) You are supposed to spend the first 15 minutes reading the whole paper carefully before commencing your work.

c) Candidates are advised to record their observations as soon as they are made.

d) Marks are given for 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	
2	20	
TOTAL	40	

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QUESTION ONE

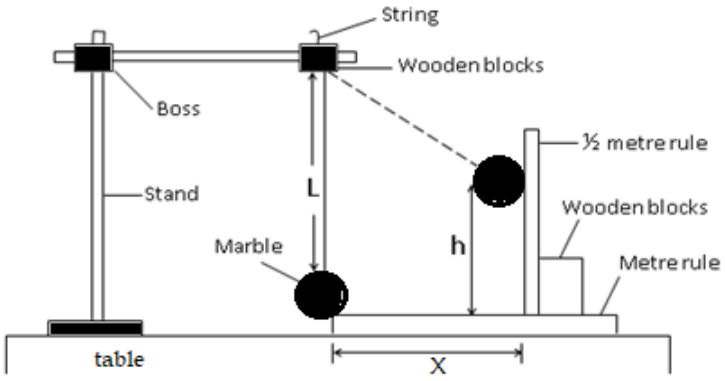
You are provided with;

- A Marble/bob with a piece of the thread attached.
- Two wooden blocks.
- Clamp, stand & a boss
- Metre rule.
- ½ metre rule supported on a wooden block.
- 2 pieces of cello tape.
- Stop watch.

Procedure:

a) Fix the thread between the wooden blocks and fasten in the clamp. Adjust the thread so that the length, L, shown in the figure below is 50cm.

b) Fix the metre rule horizontally to the bench using the cello tape provided.



X

Figure 1

c) Adjust the clamp so that the marble is next to the end of the metre rule as shown above.

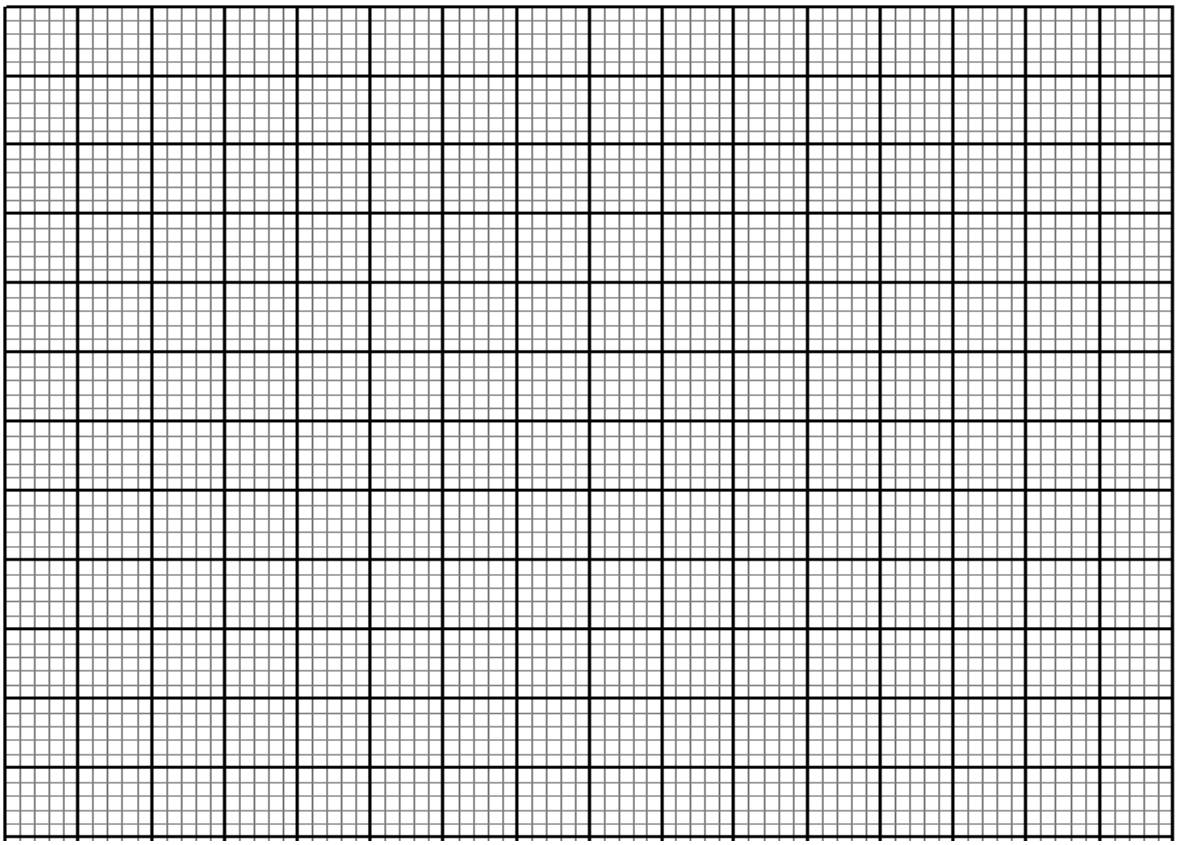
d) Displace the marble by a horizontal distance X =20cm and measure the corresponding vertical displacement h = cm. **(1mk)**

e) Repeat the experiment to find h for each of the following values of X and complete the table. **(6mks)**

X (cm)	h (cm)	X^2 (cm^2)	$\frac{X^2}{h}$ (cm)
20			
25			
30			
35			
40			
45			

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f) plot a graph of $\frac{X^2}{h}$ against h. **(5mks)**



g) Determine the slope of the graph. **(2mks)**

h) From the graph find the value of $\frac{X^2}{h}$, when h = 0 **(1mk)**

i) With the metre rule and half-metre removed — displace the marble through a horizontal distance of about 10cm and let it to swing freely, Time 20 oscillations.

i.Time, t for 20 oscillations, t = **(lmk)**

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ii.Determine periodic time, T

Periodic time, T = **(1mk)**

j) Calculate the value of P from the following equations. **(3mks)**

$T = 2\pi \sqrt{\frac{P}{g}}$, where 'g' = 10 m/s^2

QUESTION TWO

You are provided with the following apparatus:

- Rectangular glass block
- Two plain papers
- Four optical pins
- Four paper pins or thumb pins
- Protractor
- Half metre rule

PART A:

PROCEDURE:

a) Place the glass block on the plain paper on its largest area, trace its outline and mark it's sides A, B, C and D. Mark the point, P_0 on the centre of side BC as shown in figure,1 below;

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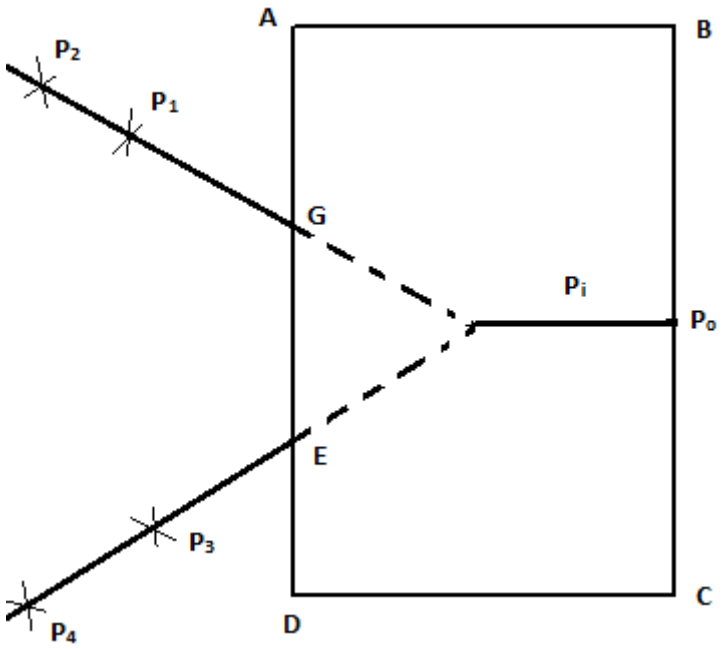


Figure 20

b) Measure the breadth of the glass block.

b = cm **(1mk)**

c) Replace the glass block and fix an object pin at P_0 such that the pin lies along the surface of the glass block.

d) With your eye on the side AD closer to A, fix pins P_1 and P_2 such that they are in line with the image $P_1$of P_o as seen from the side AD through the glass block.

e) From the same side AD closer to D, fix pins P_3 and P_4 such that they are in line with the image P_i of P_0 seen through the glass block.

f) Remove the glass block and join P_1 and P_2, and P_3 and P_4 to meet at P_i.

g) Join P_0 to $P_1$and measure length P_0P_i

P_0P_i = cm **(1mk)**

h) Determine the ratio; $\frac{b}{b-P_0P_i} = n$ **(2mks)**

(Hand in the outline with the question paper.) **(2mks)**

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PART B:

a) Trace the outline of the glass block again on the second plain paper and label it ABCD as shown in figure 3.

b) Construct a normal on the side AB approximately 3cm from A and measure angle of incidence i=30^0 (secure the plain paper using paper pins).

c) Replace the glass block on the outline and fix pins P_1 and P_2 along the line of 30^0.

d) Viewing from the sides CD through the block, fix pins P_3 and P_4 such that they appear in line with the images of P_1 and P_2. Join P_3 and P_4 and join x and y.

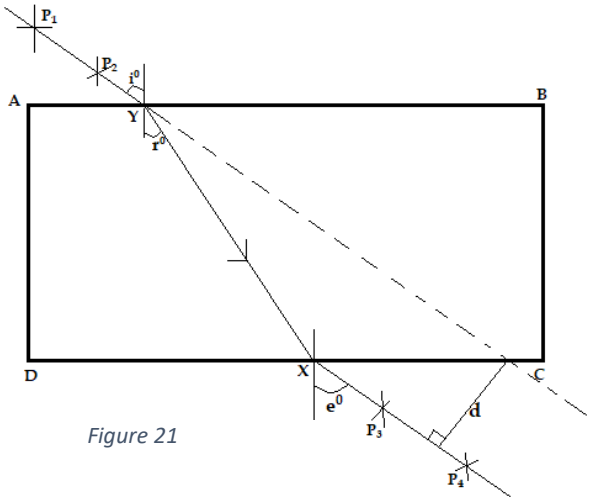


Figure 21

e) Extend the line P_1 and P_2 to obtain lateral displacement as shown in the figure and measure the lateral displacement **d** and angle **r^0.**

f) Tabulate your results. Repeat the procedure in (i) to (vi) for angles of incidence 40^0, 50^0,60^0 and 70^0.

(6mks)

(Hand in the plain paper on which you have done your experiment together with the exam paper) **(2mks)**

i^0	30	40	50	60	70
r^0					
d(cm)					

PART B

You are provided with the following apparatus:

- One cell and a cell holder
- Six connecting wires, two with crocodile clips
- A switch
- A resistor labelled, R
- An Ammeter
- A voltmeter

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Proceed as follows

o) Set up the apparatus as shown below.

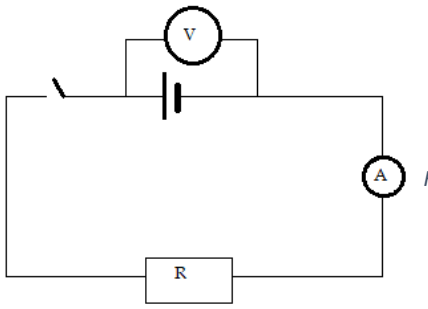


Figure 22

Record the reading E of the voltmeter E = volts **(1mk)**

p) Close the switch and record the reading, V, of the voltmeter and I the reading of the ammeter

i. V = ……. volts **(1mk)**

ii. I = …… amperes **(1mk)**

q) Determine the value of resistance, R **(1mk)**

r) Given that E = V + Ir, determine the value of r

r = **(2mks)**

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