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



EXCELLING STUDENTS FORM THREE END TERM TWO SERIES ONE EXAMS

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

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

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN: ……..… DATE: ……..

Term 2

AGRICULTURE

(QUESTION PAPER)

FORM THREE

TIME: HOURS

INSTRUCTIONS TO STUDENTS

This paper has three sections **A**,**B** and **C**

Answer **ALL** the questions in section **A** and **B** in the spaces provided

Answer only **TWO** questions in section **C** in the spaces provided

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SECTION	MAXIMUM SCORE	STUDENTS SCORE
A	**30**	
B	**20**	
C	**20**	
	20	
TOTAL	**90**	

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SECTION A

Answer **ALL** the questions in this section

1) Differentiate between apiculture and aquaculture **(1mk)**

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2) Name **four** methods of farming **(2mks)**

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3) State **four** possible uses of income earned from sale of agricultural produce **(2mks)**

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4) List **four** human factors that influence agriculture **(2mks)**

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5) Give **four** reasons for treating water for use on the farm **(2mks)**

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6) State the **use** of each of the following farm tool listed below (2mks)

Sickle……..

Milk churn……

Elastrator……..

Drenching gun……..

7) State **four** precautions that should be observed when using workshop tools **(2mks)**

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8) Give **four** reasons why burning is discouraged as a method of land clearing **(2mks)**

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9) Name **four** practices that enhance minimum tillage **(2mks)**

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10) Give **two** sources of underground water **(1mk)**

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11) State **four** characteristics of a fertile soil **(2mks)**

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12) Name **four** breeds of dairy goats **(2mks)**

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13) Name **two** types of labour records **(1mk)**

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14) List **four** symptoms of Nitrogen deficiency in plants **(2mks)**

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15) Name **two** vegetative materials used to propagate pineapples **(1mk)**

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16) Outline **four** factors considered when selecting a nursery site **(2mks)**

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17) State **four** characteristics of a good grain store **(2mks)**

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SECTION B

ANSWER ALL THE QUESTIONS IN THIS SECTION

18) The following is a list of plant nutrients; copper, calcium, nitrogen, zinc, molybdenum, phosphorus, carbon, sulphur, iron and magnesium.

Which of the above nutrients are?

a) Macro elements **(2mks)**

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b) Micro elements **(1mk)**

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c) Fertilizer elements **(1mk)**

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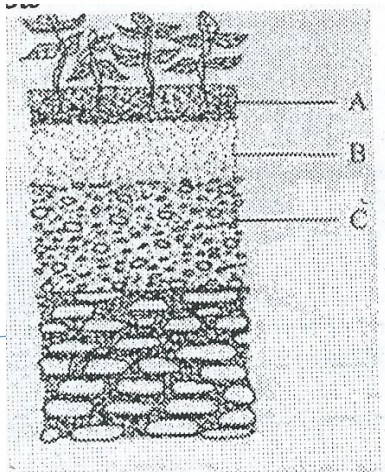
d) Liming elements **(1mk)**

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19) The diagram below illustrates a feature observed after digging the soil several meters deep. Study the diagram carefully and answer the questions that follow



a) Identify the feature that the diagram above represents in the study of soil **(1mk)**

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b) Name the parts on the diagram labelled A,B,C and D **(2mks)**

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c) State two ways in which the knowledge of the above feature would be of benefit to a farmer **(2mks)**

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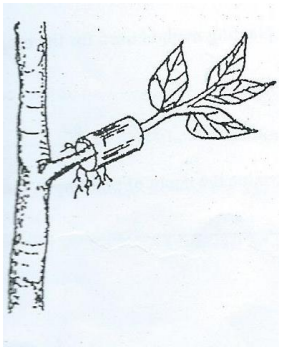
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20) the diagram below illustrates a nursery practice



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

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b) Describe the procedure followed in carrying out the practice illustrated **(2mks)**

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c) State two advantages of the practice illustrated above in crop production **(2mks)**

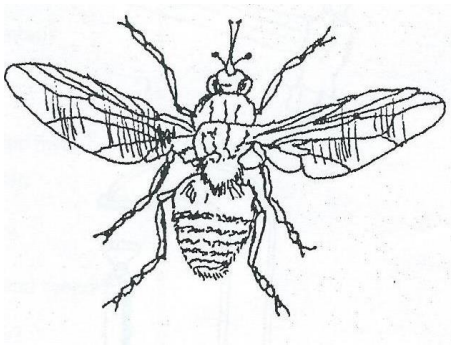
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21) The diagram below illustrates a livestock parasite



a) Identify the parasite illustrated above **(1mk)**

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b) State the major harmful effect of the parasite **(1mk)**

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c) Explain three control measures of the parasite **(3mks)**

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SECTION C

ANSWER ONLY <u>TWO</u> QUESTIONS IN THIS SECTION

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22) a) Explain the importance of vegetables to a farmer **(5mks)**

b) Briefly describe the production of onions under the following sub-headings

i) Varieties **(1mk)**

ii) Ecological requirements **(3mks)**

iii) Land preparation **(3mks)**

v) Harvesting and marketing **(4mks)**

23a) Define the following terms as used in livestock health **(2mks)**

i) Disease

ii) Health

b) State four pre-disposing factors of livestock diseases **(2mks)**

c) Give reasons for keeping livestock healthy **(6mks)**

d) Outline methods a farmer can use to control livestock diseases **(5mks)**

e) Describe the harmful effects of parasites on livestock **(5mks)**

24a) Explain five advantages of crop rotation **(10mks)**

b) Outline five activities that may be undertaken in organic farming (5mK

c) A farmer wanted to prepare 200kg of calf rearing ration containing 20 % DCP , using the pearsons square method calculate the amount of maize containing 18% DCP and sunflower containing 35% DCP the framer would need to prepare. (**5mks** show your working)

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END TERM 2 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN: ……..… DATE: ……..

443/2
AGRICULTURE
Paper 2

2hours

INSTRUCTIONS TO THE CANDIDATES:-

a) Write your name and index number in the space provided at the top of this page.

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

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

d) Answer all questions in section **A** and **B.**

e) Answer any two questions in section **C.**

f) All answers should be written in the spaces provided.

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

h) Candidate should answer **the question in English.**

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SECTION	QUESTION	MAXIMUM SCORE	CANDIDATE SCORE
A	**1-16**	**30**	
B	**17-20**	**20**	
C		**20**	
		20	
	TOTAL SCORE	**90**	

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SECTION A: (30MARKS)

Answer all questions from this section on the spaces provided.

1(a) Give **two** qualities of milk of the Friesian breed of cattle. **(1mk)**

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b) Name **three** components of a truss**.** **(1½ mks)**

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2.(a) Give **two** reasons why Jersey breed of cattle is well suited to semi-arid conditions**.** **(1mk)**

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b) State the use soluble grit to layer birds**?** **(½mk)**

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4. Give **two** uses of a wood float. **(1mk)**

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5. Give **three** conditions may lead to culling of a breeding boar? **(1½mks)**

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6. Identify **two** practices carried out during sap displacement in timber preservation. **(1mk)**

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7(a) State **three** characteristics of the Galla goat **(1½mks)**

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b) Name the **two** breeds of camels**.** **(1mk)**

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8(a) List **three** sources of water to livestock. **(1½mks)**

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b) Maize germ, a livestock feed has a starch equivalent of 30%. Explain **(1mk)**

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9(a) State **four** ways in which fleas cause economic losses to the farmer. **(2mks)**

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b) List **three** limitations of water as a source of power in the farm**.** **(1½mks)**

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10. Tabulate **two** features that differentiate between dairy and beef cattle.

(2mks)

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11. Define the following terms as used in livestock production. (1½ **Mks)**

a) Digestibility

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b) Prolificacy

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c) Malpresentation

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12. Give **three** methods of selecting livestock for breeding **(1½mks)**

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13. Why should bees be fed on sugar syrup? **(1mk)**

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14. State **four** conditions that would encourage hens to eat eggs in poultry production **(1½mk)**

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15. Distinguish between tupping and serving. **(1 mk)**

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16. What is the advantage of using forage harvesters compared to a mower? **(1mk)**

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17. Give **three** maintenance practices of ox ploughs. **(1½mks)**

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18. State **four** disadvantages of using live fence on the farm **(2mks)**

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19(a) Give **two** pre disposing factors of mastitis. **(1mk)**

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b) Using letter **X** identify **three** areas infested with a three- host tick in the picture below. **(1½mks)**



SECTION B: (20MARKS)
ANSWER ALL QUESTIONS FROM THIS SECTION ON SPACES PROVIDED

20. Study the structure of a goat pen below and then answer the questions that follow.



a) Specify the measurements between **H** and **N**. **(½mk)**

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Give a reason for your answer in a) above. **(½mk)**

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b) State the function of part **K**. **(1mk)**

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c) Which type of floor is recommended for the pen shown in the picture above **(½mk)**

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Give a reason for your answer in (c) above **(½mk)**

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d) List **two** reasons for housing the calves singly. **(1mk)**

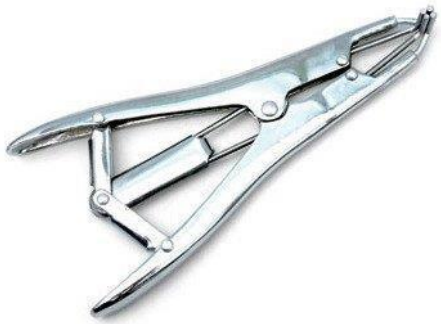
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21(a) Identify the equipment **X** and **Y** below**.** **(1mk)**



X



Y

b) State the functions of each of the equipment. **(2mks)**

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c) i) Name the tool used to castrate a piglet. **(½mk)**

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ii) Give **two** reasons for castrating a male piglet. **(1mk)**

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22(a) Identify the parasites below. **(1mk)**



U



b) Name **two** species of parasite **U**. **(1mk)**

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c) Why is it difficult to control parasite **U**? **(1mk)**

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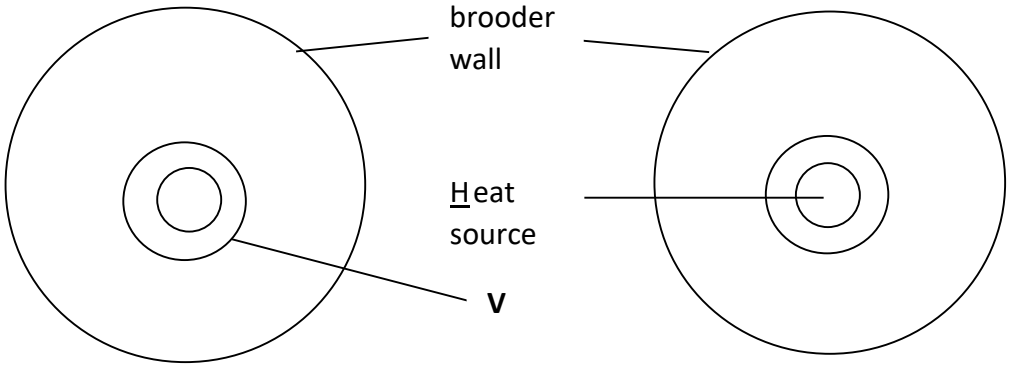
d) State the livestock commonly affected by parasite **W**? **(½mk)**

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e) A farmer wanted to mix 270kg of livestock feed containing 30% DCP by using Sorghum meal with 12%DCP and Soya bean meal containing 36% DCP. Calculate the quantities of each feedstuff he would have in the ration. **(2mks)**

23(a) Using ***x*** draw the behaviour of the chicks expected in the following conditions in a brooder**.** **(2mks)**



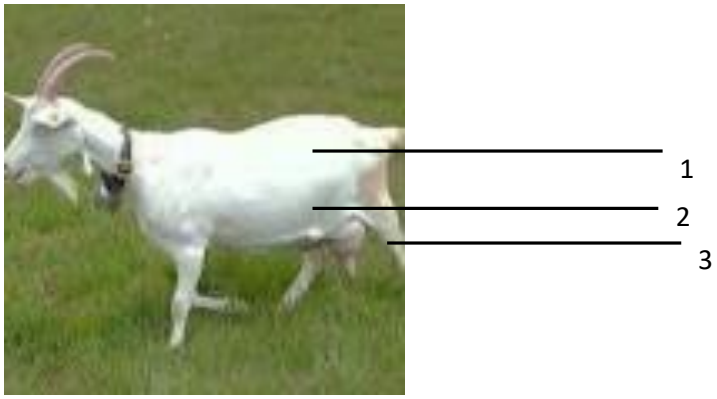
Draught wind ***Excess heat for heat source***

b) What is the role of the part labelled **V**? **(½mk)**

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c) i) Identify the got breed below. **(1mk)**



ii) On the diagram name parts 1-3**.** **(1½mks)**

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d) List two features that are used to identify the goat breed **(1mk)**

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SECTION C: (40MARKS)

Answer <u>ANY TWO</u> questions from this section on foolscaps provided.

24(a) Describe the procedure for honey harvesting in a Kenya Top Bar Hive. **(5mks)**

b) Name ten parts of an ox- drawn plough and state the function of each. **(10mks)**

c) Explain how physiological factors are used as a sign of ill or good health. **(5mks)**

25(a) Describe the process of milk let down in a cow. **(6mks)**

b) Describe the procedure of embryo transplant in cattle. **(9mks)**

c) Describe cattle management during dipping **(5mks)**

26(a) Outline the control measures of mastitis. **(5mks)**

b) Describe the marketing of eggs. **(10mks)**

c) Outline the general characteristics of chinchilla breed of rabbits. **(5mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN: ……..… DATE: ……..

Term 2

BIOLOGY

(QUESTION PAPER I)

FORM THREE

TIME:2 HOURS

INSTRUCTIONS TO CANDIDATES

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

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

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

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

(e) Candidates should answer the questions in English

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

19	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**GRAND TOTAL**

Answer all the questions in the spaces provided.

1. Name the spore producing structures in **(3mks)**

(a) Bryophyte

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(b) Pteridophyta

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(c) Fungi

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2. Name the carbohydrate stored in: **(2mks)**

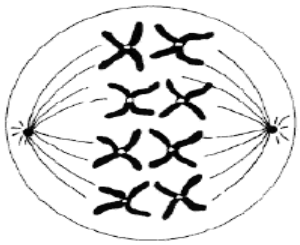
a) Cell wall

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b) Mammalian liver

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3. The diagram below represents a stage in the cell division.



a) i) Name the type of cell division. **(1mk)**

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ii) Name the stage of cell division. **(1mk)**

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4. Write **three** differences in the leaves of plants in the class Monocotyledonae and class Dicotyledonae **(3mks)**

Monocotyledonae	Dicotyledonae

5. Given the following organisms in a dam, construct a possible food chain for the dam. **(2mks)**

Small fish

Crocodiles

Mosquito larvae

Microscopic algae

Large fish

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6. Why are plants able to accumulate most of the waste products for long? **(2mks)**

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7. State the conditions in human beings that results to the following:-

(i) Production of large quantities of dilute urine. **(1mk)**

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(ii) Release of aldosterone hormone **(1mk)**

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(iii) Release of glucagon hormone. **(1mk)**

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8. State two characteristics of fungi. **(2mks)**

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9. State the changes that occur in arterioles in the human skin during thermoregulation. **(2mks)**

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10. Study the diagram of the mammalian tooth below and answer the questions that follow.



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

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

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c) State **one** adaptation of the tooth to its function. **(1mk)**

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11. Study the pictures of two organisms below and answer the questions that follow.





a) Why are the two organisms classified in the same phylum? **(2mks)**

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b) State **two** features that are used to classify the organisms above into classes. **(2mks)**

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12. Oil can be applied on stagnant water to control the spread of malaria.

a) How does this control the spread of malaria. **(2mks)**

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b) Give a reason why this practice should be discouraged. **(2mks)**

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13. A strip of raw potato whose length measured 5cm was immersed in a beaker of solution. After 45minutes the strip measured 5.2 cm.

a) Explain the change in length. **(2mks)**

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b) State one other observation that was made on the raw potato strip at the end of the experiment **(1mk)**

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14. State the use of Colchicine **(1mk)**

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15. State **three** ways in which protein are important to plant. **(3mks)**

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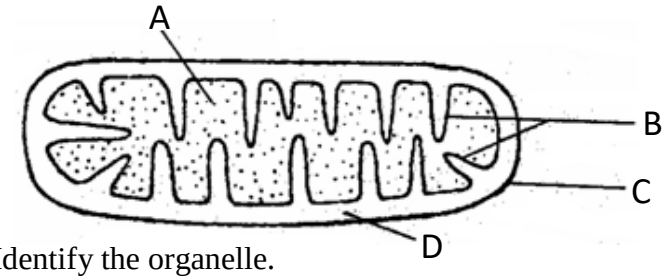
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16. The diagram **below** represents a cell organelle.



(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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17. Name any **two** problems that animal species overcome by their dispersion. **(2mks)**

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

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19. Explain how forward flow of blood is maintained in the veins? **(2mks)**

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20. Explain the function of enzyme catalase in ensuring that tissues are kept safe from poisoning. **(2mks)**

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21. State the role of light energy in autotrophic nutrition**.** **(2mks)**

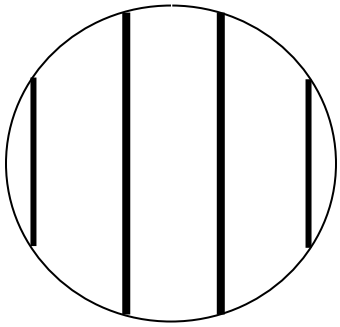
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22. A form one student trying to estimate the size of onion cells observed the following on the microscope's field of view.



(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)**

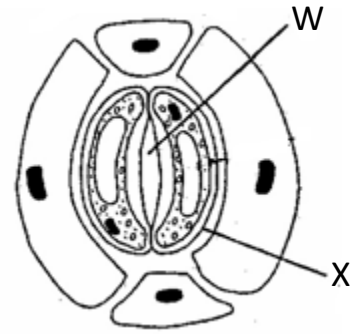
23. State the importance of peristalsis in nutrition of mammals. **(1mk)**

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24. The diagram **below** shows part of plant tissue.



(a) Name cell labeled **X** and part labeled **W**. **(2mks)**

X ……

W ……

(b) State how cell X are suited to their functions. **(2mks)**

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

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26. State any two characteristics of populations. **(2mks)**

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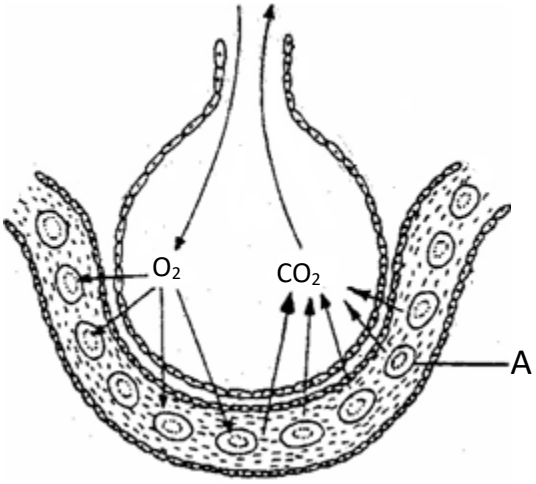
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27. The diagram **below** shows the exchange of gases in alveolus.



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

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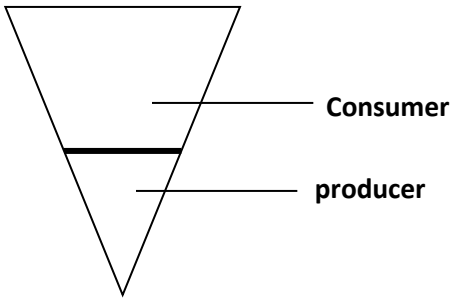
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(b) Name the cell labeled **A**. **(1mk)**

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



(a) Suggest the role of sunlight in this ecosystem **(1mk)**

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

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

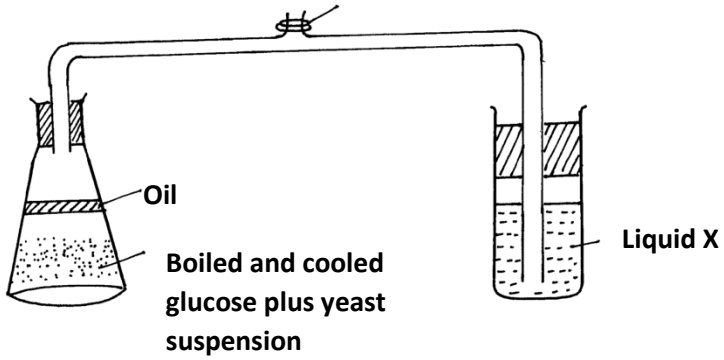
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30. The set up below shows apparatus to demonstrate a certain biological process



(a) What biological process was being investigated in the experiment **(1mk)**

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(b) Write down a word equation that represents the reaction above **(1mk)**

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(c) In the above set up, why was it important to boil and cool glucose before adding yeast? **(1mk)**

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31. State two factors which contribute to the formation of tissue fluid in the capillaries **(2mks)**

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32. a) Name structural units of lipids **(1mk)**

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b) State two functions of lipids in living organisms **(2mks)**

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33. If the nerve supply to the heart of mammal is severed, the rhythmic heart movements will still go and heart continues to beat. Explain **(2mks)**

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EXCELLING STUDENTS FORM THREE END TERM 2 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN: ……..… DATE: ……..

Term 2

BIOLOGY

(QUESTION PAPER II)

FORM THREE

TIME: 2HOURS

INSTRUCTIONS

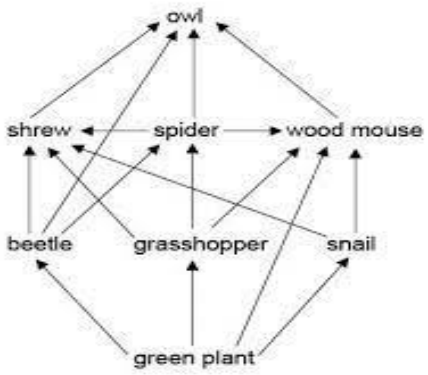
1. This paper has **TWO** sections: **A** and **B**
2. **All** Questions in Section **A** are **Compulsory**
3. Question **6** is Compulsory
4. Choose Either Question 7 **or** 8
5. Write your Answers in the Spaces Provided
6. Wrong Spelling of Technical Terms shall be **Penalized**

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 following is an illustration of feeding relationship of organisms in a given ecosystem



a) From the above, write a food chain with: **(2mks)**

i) Owl occupying third energy level

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ii) Owl as quaternary consumer

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b) Why should the green plant have the highest biomass? **(2mks)**

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c)i) Which organism is lacking for the above to be a complete ecosystem? **(1mk)**

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ii) What is the role of the organism mentioned in ci) above? **(1mk)**

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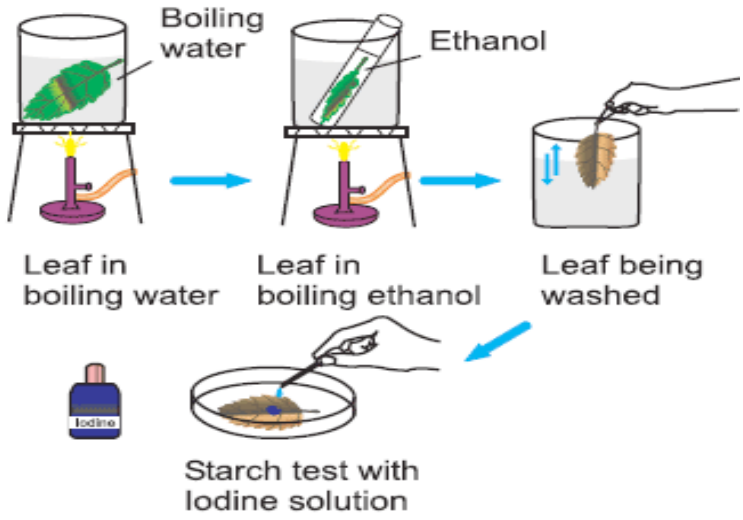
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d) A researcher randomly caught 400 grasshoppers, marked them with ink and released them back to the environment. 24 hours later, he caught 374 out of which 294 lacked the ink mark. Determine the population of grasshoppers in that habitat **(2mks)**

2. The following are steps followed when testing for starch in a leaf



a) Why would it be necessary to do the following:

i) Place the leaf in sunlight for 5 hours before the experiment **(1mk)**

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ii) Dip the leaf in boiling water for 5 minutes **(1mk)**

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iii) Place the leaf in boiling ethanol **(1mk)**

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b) State the conclusion to be made when the following colours are observed **(2mks)**

Observation	Conclusion
Brown	
Blue Black	

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c) State **TWO** reasons why plants store carbohydrates as starch and not glucose **(2mks)**

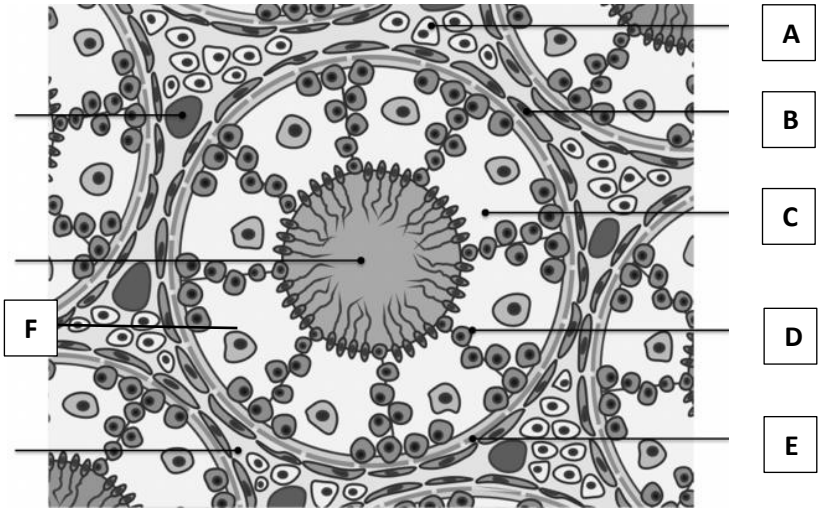
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3. The following is an illustration of an internal section of the human testis



a) Name the type of cell division that results into the formation of:

i) Cell **F** from Cell **B** …… **(1mk)**

ii) Cell **D** from Cell **F** …… **(1mk)**

b) Give the name and function of the hormone released by the cells labelled **A** **(2mks)**

Name ……

Function ……

c) Give **TWO** ways cell **C** is important to the development of the spermatids **(2mks)**

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d) State the significance of the following:

i) The human testes are found hanging outside the male body **(1mk)**

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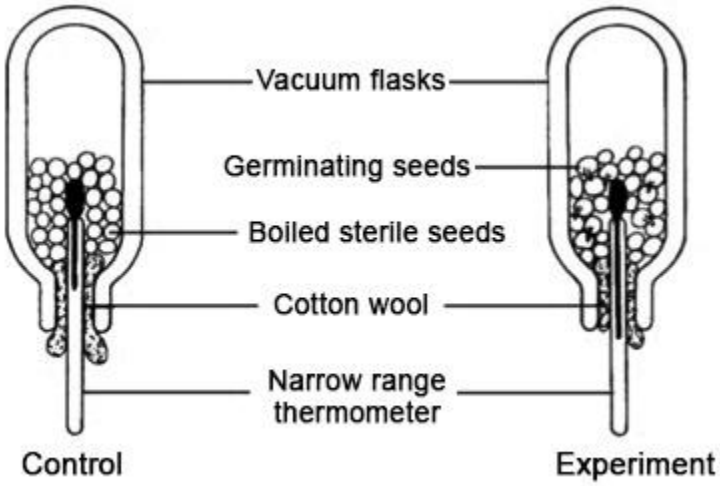
ii) One ejaculation during sexual intercourse releases millions of spermatozoa **(1mk)**

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4. The following set up was left standing for 3 days to study a physiological process



a) What was the aim of the experiment? **(1mk)**

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b) State the importance of the following during the experiment

i) Using a vacuum flask **(1mk)**

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ii) Inverting the vacuum flask **(1mk)**

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iii) Sterilizing the boiled beans in the flask marked "Control" **(1mk)**

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c) Account for the observation made in the vacuum flask marked:

i) "Experiment" **(2mks)**

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ii) "Control" **(2mks)**

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5. The following table shows variations in concentrations of forms in which Carbon (IV) Oxide is transported by blood at rest and during physical body exercise.

Form in which Carbon (IV) Oxide is Transported	At Rest (Mole/litre)	During Physical Body Exercise (Mole/litre)
Dissolved Carbon (IV) Oxide	0.52	0.97
Hydrogen Carbonate ions	12.34	13.68
Carbon (IV) Oxide bound to a protein	0.26	0.16
Total Carbon (IV) Oxide in Plasma	13.12	14.81
pH of Blood	7.42	7.09

a) Give an explanation on how involvement in physical body exercise affects pH of blood **(2mks)**

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b) i) Name the protein in the blood responsible for transport of Carbon (IV) Oxide **(1mk)**

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ii) Write a word equation for the reaction between Carbon (IV) oxide and the molecule named in bi) above **(1mk)**

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c) Explain why more Carbon (IV) Oxide is transported in form of Hydrogen Carbonate ions **(2mks)**

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d) Why is it that a person sleeping in a poorly ventilated room with a lit charcoal burner is likely to die by suffocation? **(2mks)**

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SECTION B (40 MARKS)

Qn 6 is Compulsory. Choose to do either Qn. 7 or Qn. 8

6. In a study, Peter and James each drunk a juice containing 5grams of glucose. At intervals of 15minutes, the concentration of glucose in their blood was measured and tabulated as shown below

Time in Minutes	PETER Blood Glucose Level (Mg/dL)	JAMES Blood Glucose Level (Mg/dL)
0	94	100
15	94	100
30	97	160
45	107	205
60	114	245
75	116	265
90	115	266
105	109	254
120	100	233

a) Using the same axes, plot a graph of Blood Glucose level against time for the two study participants **(8mks)**

b) From the graph account for the shape of graph at:

i) 0-15minutes **(2mks)**

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ii) 30-75minutes **(2mks)**

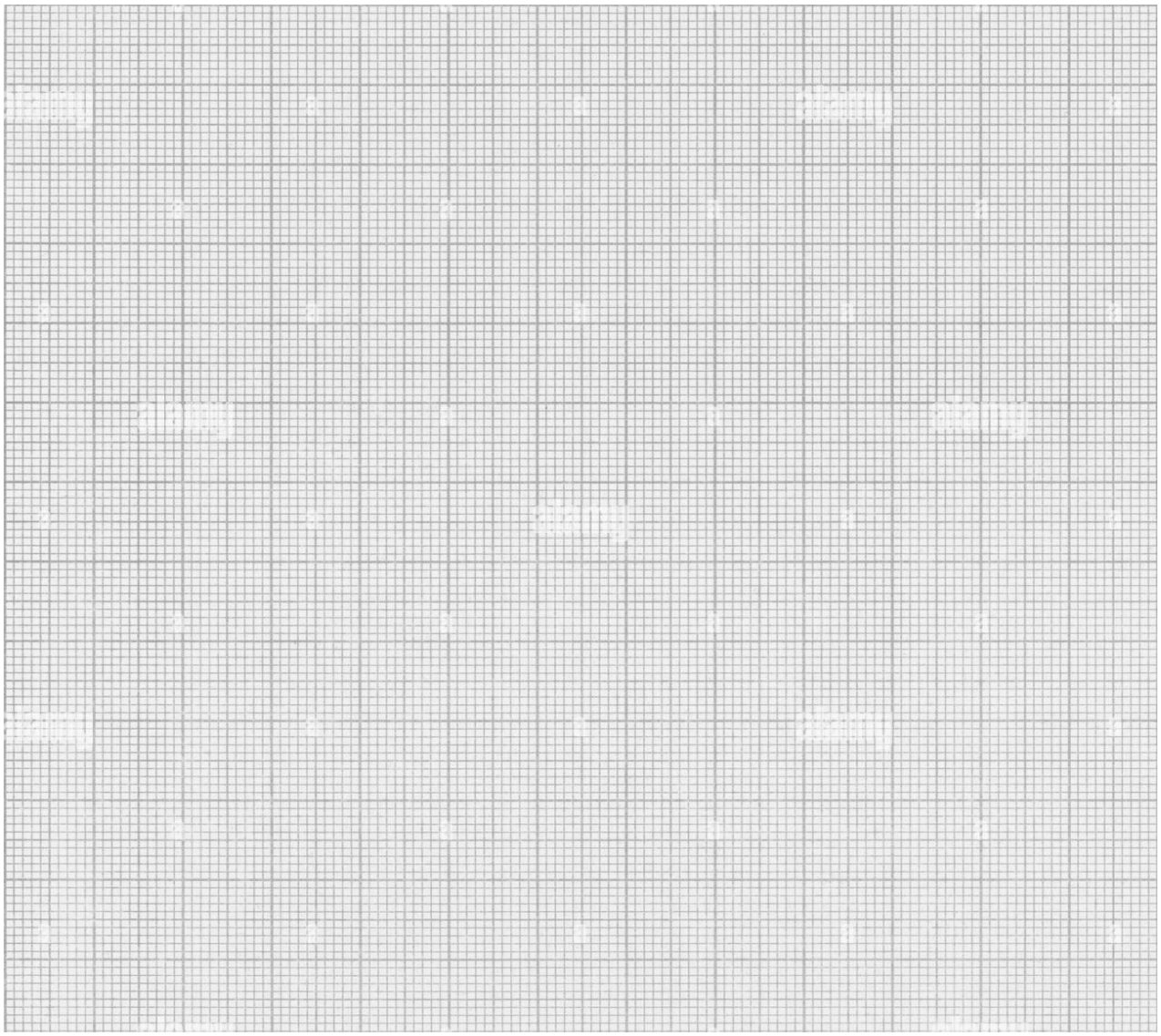
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c) Determine the concentration of glucose in the blood of the two participants at 50^{th} minute **(2mks)**

i) Peter **……**

ii) James **……**

d) Describe the role played by Pancreas in the drop of blood glucose level observed between 90^{th} and 120^{th} minute **(4mks)**

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e) i) Name the likely disorder James is suffering from **(1mk)**

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ii) State **ONE** way in which the disorder mentioned in e)i) above can be managed **(1mk)**

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7. a) Explain how various components of blood are adapted to their functions **(16mks)**

b) Outline the differences between the features of insect pollinated flowers and wind pollinated flowers **(4mks)**

8. a) Describe how the human body restore osmotic pressure of body fluids **(8mks)**

b) Describe the opening and closing of stomata using the starch-sugar interconversion theory **(12mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……

ADM NO: ……. SIGN: ……..… DATE: ……..

Term 2

BIOLOGY

(QUESTION PAPER III)

FORM THREE

TIME: 1 3/4 HOURS

INSTRUCTIONS

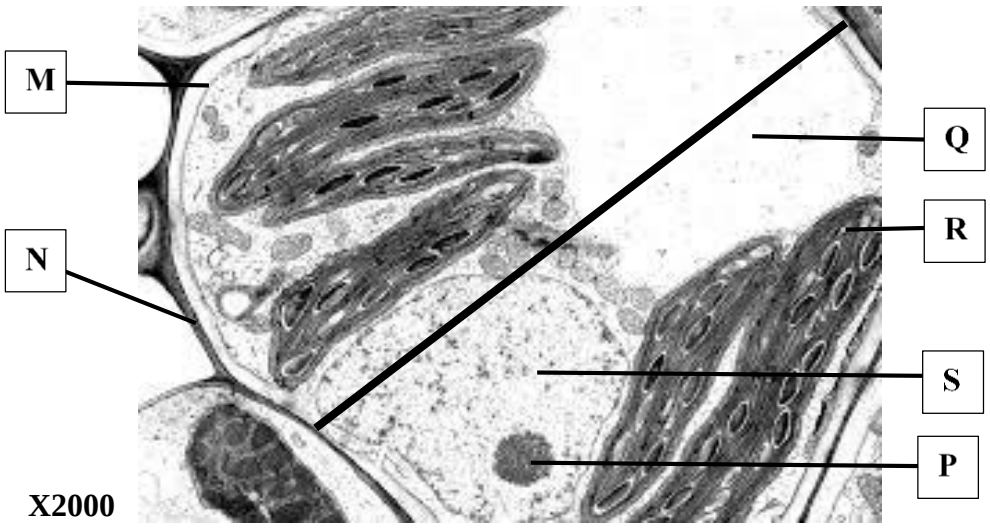
(i) This paper consists of **THREE** questions that must all be attempted

(ii) You are required to spend the first **15minutes** of the time allocated to read through the questions before beginning the practical examination.

(iii) Write your Answers in the Spaces Provided

(iv) Wrong Spelling of Technical Terms shall be **Penalized**

1. The following is an electromicrograph of a section of a cell. Use it to answer questions that follow



X2000

a) i) Is this an animal cell or a plant cell? **(1mk)**

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ii) Give **TWO** reasons for your answer in ai) above **(2mks)**

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b) State the name and functions of the following parts labelled: **(4mks)**

Part	Name	Function
M		
P		
Q		
R		

c) State the expected differences between the following structures in terms of the features given **(3mks)**

Feature	M	N
Flexibility		
Chemical Composition		
Permeability		

d) i) Measure the length from one end to the other of structure **N** represented by the straight dark line running across the cell **(1mk)**

…….. **mm**

ii) Determine the actual diameter (in micrometers) of the cell represented by the straight dark line running across the cell **(3mks)**

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2. Use the photographs shown below of common living organisms to answer questions that follow



Tapeworm



Snail



Beetle



Earthworm



Ant



Roundworm



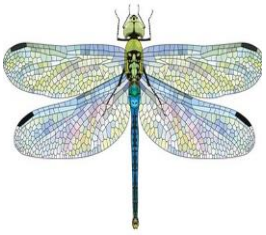
Spider



Scorpion



Housefly



Dragon fly

a) i) Name the class to which both **housefly** and **dragon fly** belong **(1mk)**

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ii) Give a reason for your answer in ai) above **(1mk)**

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b) Give an observable feature that adapts the **tapeworm** to parasitisim **(1mk)**

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c) Identify differences between **spider** and **beetle** in terms of the following features **(2mks)**

Feature	Spider	Beetle
Antennae		
Cephalothorax		

d) Fill in the following spaces to create a complete Dichotomus key for identification of the specimens provided above **(5mks)**

1. a) With limbs ……. Go to 2

b) Without limbs …… _____

2. a) With four pairs of walking legs …….. Go to 5

b) _____ …… Go to 6

3. a) Shell encloses the body …….. _____

b) Body not enclosed by a shell ……. Go to 4

4. a) Worm with Segmented body ……. Go to 7

b) _____ …… **Roundworm**

5. a) Chelicerae longer than 2cm ……. _____

b) Chelicerae less than 2cm ……. **Spider**

6. a) Winged ……..….. _____

b) _____…….. **Ant**

7. a) With anterior suckers and hooks ……. _____

b) Lack anterior suckers and hooks ……. **Earthworm**

8. a) With a pair of wings …… **Housefly**

b) _____…….. Go to 9

9. a) Membraneous forewing ……..……. _____

b) Hard and thick forewing ….……. **Beetle**

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e) Fill in the table below to show the steps and correct identity of each of the specimen **(5mks)**

Steps Followed	Identity
1b, 3a	
	Beetle
	Tapeworm
	Dragon fly
1a, 2b, 6b	

3. You are provided with:

- Solution **T1**
- Solution **T2**
- Olive oil
- Irish potato
- Iodine solution

a) Label two test tubes **X** and **Y**. Into each test tube, place 2ml of water and 8 drops of olive oil. To test tube labelled **X**, add 8 drops of liquid **T1**. Shake both test tubes and allow the contents to stand for 2 minutes.

i) Record your observations in the table below **(2mks)**

TEST TUBE	OBSERVATION
X	
Y	

ii) Name the process that has taken place in test tube **X** **(1mk)**

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iii) State the significance of the process named in ai) above in digestion **(1mk)**

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iv) Name the digestive juice that has the same effect on oil as liquid **T1** **(1mk)**

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v) Name the organ where the juice named in aiv) is manufactured **(1mk)**

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b) Label two test tubes **E** and **F**. Place 2ml of liquid **T2** into each. Add a drop of iodine solution into each test tube

i) Record your observation **(1mk)**

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ii) Suggest the identity of solution **T2** **(1mk)**

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iii) Cut a cube whose sides measure 1cm from the irish potato provided. Crush the cube to obtain a paste and place the paste in test tube labelled **E**. leave the set up for at least 30minutes.

Record your observation in test tube **E** **(1mk)**

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iv) Account for the observation made in biii) above **(2mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN: ……..… DATE: ……..

Term 2

BUSINESS STUDIES PP1

FORM THREE (3)

Time: 2½Hours

SECTION A (Answer all questions)

1. Outline **three** reasons why cash payment would be preferred to cheque payment. **(3mks)**

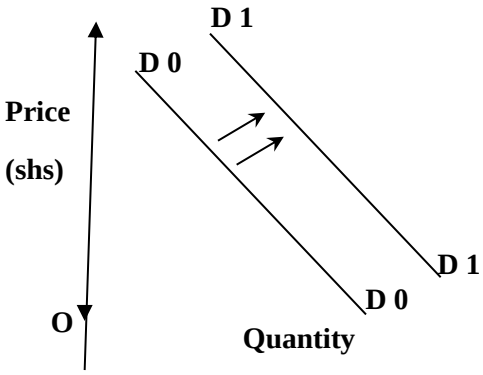
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2. The following diagram shows a shift in demand curve. Outline **four** reasons that can lead to this shift. **(4mks)**



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3. Motor cycles have recently become a very popular mode of transport in Kenya. List **four** benefits commuters enjoy by using them. **(4mks)**

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4. State **four** ways in which consumers are likely to suffer when there is no warehousing. **(4mks)**

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5. Highlight **four** roles played by an entrepreneur in the production process. **(4mks)**

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6. State **four** ways in which Kenya as a country can conserve her economic resources. **(4mks)**

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7. For each of the following descriptions, identify the corresponding method of product promotion. **(4mks)**

DESCRIPTION	**METHOD OF PROMOTION**
Free promotion of a product	
Strategies to increase sales at the point of promotion.	
Impersonal presentation of a product through the mass media	
Meant to improve the reputation of a firm	

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

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9. State **four** advantages of franking machine**.** **(4mks)**

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10. State **four** rewards for labour as a factor of production. **(4mks)**

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11. Outline **four** factors that may hinder occupational mobility of labour. **(4mks)**

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12. Highlight **four** measures that a government may take to reduce the mortality rate in a country. **(4mks)**

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13. State **four** objectives of product promotion. **(4mks)**

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14. Amobi School insured their computer laboratory against theft with Tumaini company by paying Kshs. 100,000. Later the computer laboratory was broken into and computers stolen and a compensation of Kshs. 500,000 were paid. Using insurance terms, state what each of the following stand for; **(4mks)**

a) Amobi School .....

b) Theft .....

c) Kshs 100,000 .....

d) Tumaini Company .....

15. State **four** responsibilities of a business to its customers. **(4mks)**

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16. Show the effect of each of the following transaction to capital, assets and liabilities indicating if it's increasing (+), decreasing (-) or nil (0). **(4mks)**

Transaction	Capital	Asset	Liability
a) Converted private house into business premises			
b) Paid creditors in cash			
c) Sold a business car valued at sh 400,000 for sh 300,000 on credit			
d) Sold goods on credit			

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17. Identify the terms described by the following statements in business studies**.** **(4mks)**

Statement	Term
Study of all activities carried out in an office	
All activities involved in movement of goods from the producer to consumer	
Systematic way of recording business transactions and interpretation of records made.	
Use of goods and services to satisfy human wants.	

18. Outline **<u>three</u>** ways in which the utility of a commodity may be decreased. **(3mks)**

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<u>Section B (Answer any three questions)</u>

19. Explain five benefits that could accrue to a customer who buys goods from a departmental store. **(10mks)**

20. Describe five channels followed in exporting agricultural products. **(10mks)**

21. Using a diagram illustrate the effects of a positive shift of a demand curve on the equilibrium point, price and quantity **(10mks)**

22. Explain five features of land as a factor of production. **(10mks)**

23. Describe **five** procedures to be followed when taking an insurance policy. **(10mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN: ……..… DATE: ……..

565/2
BUSINESS STUDIES
Paper 2
STUDIES
2hours

INSTRUCTIONS TO THE CANDIDATES:-

a) *This paper consists of* ***six*** *questions.*
b) *Answer any* ***FIVE*** *Questions.*
c) *Write your answers in the answer booklet provided.*
d) ***ALL*** *Questions carry equal marks.*

For examiner's use only

Question	1	2	3	4	5	6
Total Marks						

1.a) Over the years Homalime enterprises has grown into a viable business enterprise. Explain five ways in which internal environment may have contributed to the success of this enterprise. **(10mks)**

(b) One of the trends in transport includes the use of containers. Outline five factors that may limit the use of containers as a method of transporting goods in a developing country. **(10mks)**

2(a) Population census carried out in one of the states showed a high percentage of ageing population. Highlight five implications of this ageing population to the economy. **(10mks)**

(b) Manufacturer decided to sell his goods through personal selling. Outline five circumstances under which personal selling would be the most appropriate to use. **(10mks)**

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3.(a) Describe five accounting documents that are used in home trade. **(10mks)**

(b) Nyamindi Traders had the following assets and liabilities on 30th June 2016.

	shs
Creditors	60,000
Equipment	110,000
Furniture & fittings	25,500
Stock	80,000
Debtors	90,000
Cash at bank	10,000
Cash in hand	19,500
3yrs bank loan	1,000

During the first week of June ,2016,the following transaction took place

JUNE : 1 Bought furniture from Chepsire on credit for sh 38,000
" 2 Purchased a computer by cheque for sh 44,000
" 3 Paid creditors by cheque for sh 40,000
" 4. Received sh 64,000 by cheque and sh 6,000 by cash. Required:

Draw up Nyamindi's balance sheet as at 30th June 2016.after the above transaction have been completed. **(10mks)**

4 (a) Highlight five factors that may hinder economic development in Kenya being one of the developing countries. **(10mks)**

(b) Outline five features of a monopolistic competition as a form of product market. **(10mks)**

5 (a) Explain **five** importance of entrepreneurship in Kenya. **(10mks)**

(b). On 1st march 2014 Biden had shs 40,000 in hand and bank overdraft of sh.10,000

March 2nd: Bought goods shs 4000 to be paid end of next month
March 3rd: Cash sales banked shs 360
March 6th: Paid Mitei, a creditor sh 29100 by cheque in full settlement of his accounts after deducting 3% cash discount
March 16th: Received acheque for shs 72000 from PETER after allowing him a cash discount of 10%
March 20th: Withdrew shs 60000 from bank for office use
March 28th: Settled Njoroge's account of shs.50,000 by cheque less 5% cash discount
March 31st: Banked all cash except sh 19,400

Required:

Prepare duly balanced three column cash book for the month of March 2016. **(10mks)**

6. (a) Highlight five differences between a public limited company and a public corporation **(10mks)**

(b) Explain various methods used by the Kenyan government to improve its exports. **(10mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN: ……..… DATE: ……..

Term 2
FORM 3
CHEMISTRY PAPER 1(233/1)
Time: 2 Hours

Instructions to candidates

(a) Write your name, admission number, index number, and stream in the spaces provided above.

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

(c) Answer **ALL** the questions in the spaces provided.

(d) Candidates **MUST** answer all questions in English.

(e) KNEC mathematical tables and silent non-programmable electronic calculators may be used.

(f) This paper consists of **10 printed pages**

(g) Candidates should **check** the question paper to ascertain that **ALL** the pages are printed as indicated and that **NO QUESTIONS ARE MISSING**

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QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
1 – 28	**80**	

1. A certain atom is represented as $^{32}_{16}\mathbf{W}$.

a) How many neutrons are in the nucleus of atom **W**? **(1mk)**

……

……

b) Write the electron configuration of the most stable ion of **W**. **(1mk)**

……

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c) Draw the structure of the ion of **W** **(2mks)**

2. Molten aluminium oxide was electrolysed using graphite electrodes.

a) Write the anode and cathode reactions to show the overall reaction of this electrolysis process. **(2mks)**

Anode _____

Cathode _____

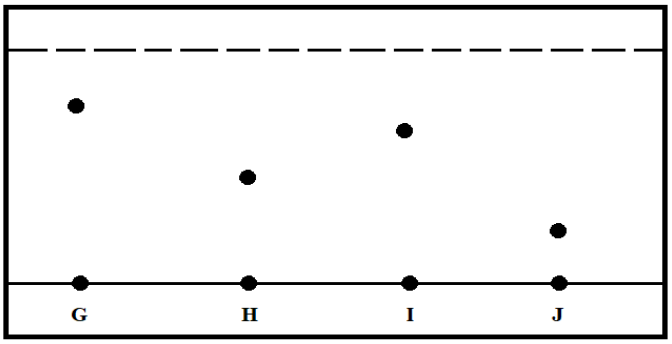
b) State the observation made at the anode **(1mk)**

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3. The diagram below represents a paper chromatogram for pure substances **G**, **H**, **I**, and **J**. Study it and use it to answer the questions that follow.



a) Paper chromatography depends on **two** main properties of pigments to achieve separation. Name these **two** properties. **(1mk)**

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b) Explain the extent of travel of pigment **J**. **(2mks)**

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4. When zinc burns in oxygen, the resultant compound can react with both dilute hydrochloric acid and with sodium hydroxide solution.

a) Write a chemical equation for the reaction between zinc and oxygen. **(1mk)**

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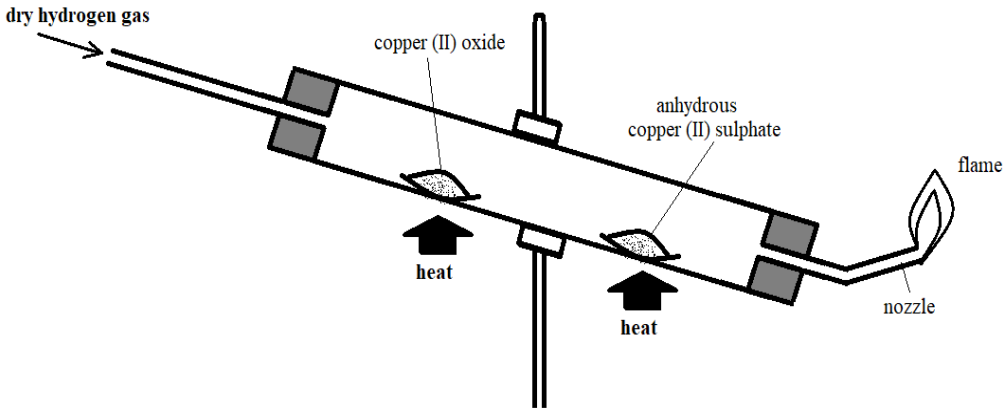
b) What property of the compound formed makes it possible to react with both dilute hydrochloric acid and sodium hydroxide solution? **(1mk)**

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5. Study the setup below and use it to answer the questions that follow.



a) What is the role of the flame at the nozzle? **(1mk)**

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b) The combustion tube is arranged in a slanting position and not horizontally. Explain **(1mk)**

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c) After the reaction, hydrogen is continuously passed through the combustion tube until the setup cools down. Explain. **(1mk)**

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6. Using a suitable example, explain the term 'unsaturated' hydrocarbon. **(2mks)**

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7. Under certain conditions, methane reacts with steam to form carbon (II) oxide and hydrogen as the only products.

a) Write a chemical equation for this reaction. **(1mk)**

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b) Determine the total volume of gas formed when $50cm^3$ of steam reacts completely with methane. **(2mks)**

8. 1.96g of zinc metal was added into a conical flask containing $100cm^3$ of 0.2M hydrochloric acid.

a) Determine the substance that was in excess. (Zn = 64, H = 1, Cl = 35.5) **(2mks)**

b) Determine the quantity of the substance that was in excess. **(2mks)**

9. A luminous flame is bright yellow. Explain **(2mks)**

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10. Study the table below and use it to answer the questions that follow. The letters **X**, **Y**, and **Z** are not symbols of actual elements.

Substance	Melting Point (^oC)	Boiling Point (^oC)	Electrical Conductivity
X	97	912	Conducts in solid and molten states
Y	-121	80	Does not conduct in any state
Z	745	1410	Only conducts in molten and aqueous states

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a) Which is the most likely structure of substance **Z**? **(1mk)**

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……

b) Which substance is likely to be lithium? Explain **(2mks)**

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11. The oxide of an element, **D**, contains 53.33% oxygen by mass. Determine the empirical formula of the oxide. (D = 7, O = 16) **(2mks)**

12. John heated some white crystals and observed fumes of a brown gas, and an orange residue which changed to yellow on cooling. A glowing splint was rekindled during the experiment.

a) Name the cation and anion present in the white solid **(1mk)**

Cation _____

Anion _____

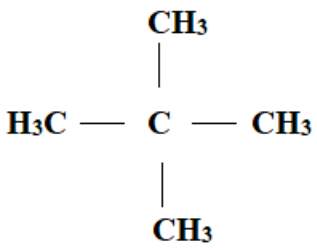
b) Name the **two** products formed when the brown fumes are bubbled through a beaker of distilled water. **(2mks)**

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13. Name the following compounds (2 marks)



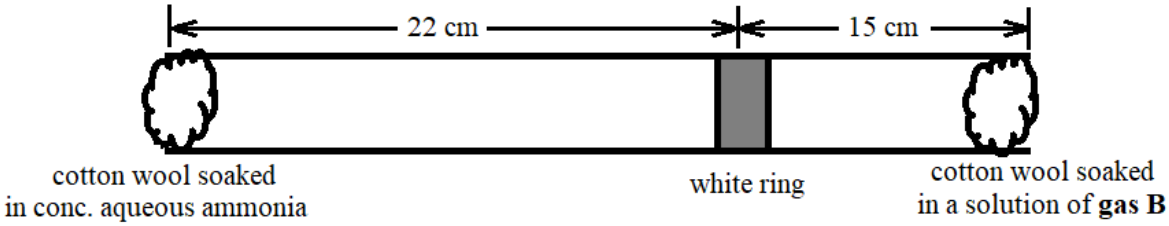
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$CH_3\,C \equiv C\,CH_2\,CH_3$

……

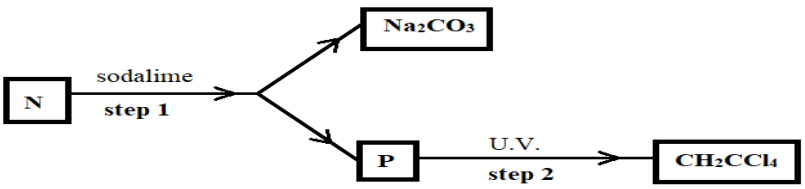
14. The diffusion of molecules of ammonia and another unknown gas **B**, containing one atom of hydrogen and another element, through air was investigated. The distance covered by the two gases is as shown by the setup below. The white ring indicated appeared after four minutes.



a) Calculate the molar mass of gas **B**. (H = 1, N = 14) **(2mks)**

b) In which group of the periodic table does the other atom of gas **B** belong? **(1mk)**

15. Study the flow diagram below and use it to answer the questions that follow.



a) Identify the following substances: **(2mks)**

N _____

P _____

b) What name is given to the process shown in **step 2**? **(1mk)**

……

……

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16. Beryllium and carbon have atomic numbers 3 and 6 respectively. Compare their atomic radii. Explain. **(2mks)**

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17. Ammonium chloride reacts with calcium hydroxide, in the Solvay Process, to generate ammonia gas. The by-product, calcium chloride, is among the products formed.

a) Write a chemical equation for the reaction **(1mk)**

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……

b) Calculate the volume of ammonia produced, at room temperature, when 2.14g of ammonium chloride reacts with calcium chloride. (N = 14, H = 1, Cl = 35.5, molar gas volume = 24L) **(2mks)**

18. Using dots (•) and crosses (×) to represent electrons, draw structures to show the bonding in the compounds formed with the following elements combine: ($^{28}_{14}Si$, $^{23}_{11}Na$, $^{35.5}_{17}Cl$)

a) Sodium and chlorine **(2mks)**

b) Silicon and chlorine **(2mks)**

19. Air was passed through several reagents as shown in the flow diagram below



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a) Write an equation for the reaction that takes place in the chamber with heated magnesium powder **(1mk)**

……

……

b) Potassium hydroxide solution, and not calcium hydroxide solution, is preferred for use in the first chamber. Explain **(2mks)**

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20. Explain the following observations: (Si = 28, S = 32, C = 12, O = 16)

a) SiO_2 has a much higher boiling point than CO_2 **(2mks)**

……

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……

b) SO_2 has a higher boiling point than CO_2 **(2mks)**

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21.

a) State the kinetic theory of matter **(1mk)**

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b) Using the theory, explain what happens when steam progressively changes to **ice** **(2mks)**

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……

22. $75cm^3$ of 3M H_2SO_4 solution was diluted to 0.2M. Calculate the volume of the dilute solution. **(2mks)**

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23. When a 3g sample of magnesium powder reacted with oxygen, 4.6g of its oxide was obtained. Calculate the percentage yield of the magnesium oxide (Mg = 24, O = 16) **(2mks)**

24. The table below shows the number of **valence electrons** of elements **P**, **T**, and **Y**. Study it and use it to answer the questions that follow.

Element	P	T	Y
No. of Valence electrons	3	5	1

a) P and **Y** cannot react to form a compound. Explain **(1mk)**

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……

b) Write a chemical equation to show the effect of heat on the carbonate of **Y**. **(1mk)**

……

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c) Write the formula of the most stable ion of **T**. **(1mk)**

……

……

25. The following is a list of metals that may be available in the laboratory: Lead, Zinc, Copper, and Sodium.

a) Suggest the most suitable metal in the list that may be reacted with dilute hydrochloric acid in the laboratory to produce hydrogen gas. **(1mk)**

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……

b) Give **one** reason for **each** of the other metals, as to why they may not be suitable for use in preparing hydrogen gas using the dilute hydrochloric acid sample. **(3mks)**

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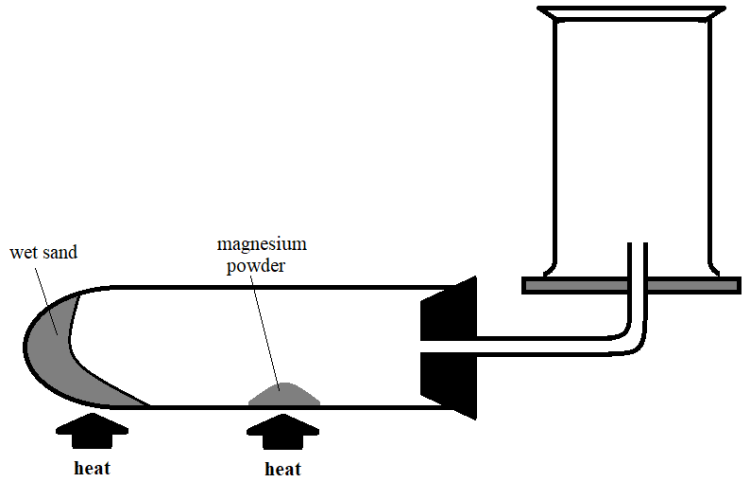
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26. Study the setup below and use it to answer the questions that follow.



a) Write an equation for the reaction that takes place in the boiling tube **(1mk)**

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b) Identify the reducing agent in the reaction in **a)** above. Explain **(2mks)**

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27. A certain mass of gas occupies 211cm^3 at 18^{o}C and 740mmHg. What volume will it occupy at -20^{o}C and 770mmHg? **(2mks)**

28.

a) Distinguish between the terms deliquescent and efflorescent as used in Chemistry. **(2mks)**

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b) Give **one** example of an efflorescent substance. **(1mk)**

……

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN: ……..… DATE: ……..

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

Instructions to candidates

(a) Write your name, admission number, index number, and stream in the spaces provided above.

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

(c) Answer **ALL** the questions in the spaces provided.

(d) Candidates **MUST** answer all questions in English.

(e) KNEC mathematical tables and silent non-programmable electronic calculators may be used.

(f) This paper consists of **10 printed pages**

(g) Candidates should **check** the question paper to ascertain that **ALL** the pages are printed as indicated and that **NO QUESTIONS ARE MISSING**

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QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
1	15	
2	13	
3	12	
4	11	
5	14	
6	15	
TOTAL SCORE	80	

1. The table below shows the properties of some elements. The letters do not represent actual symbols of elements. Study the table and use it to answer the questions that follow.

Element	A	D	E	G	J	L	M	Q	R	V
Atomic Number	7	8	19	15	2	9	6	16	12	11
Atomic Mass	14	16	39	31	4	19	12	32	24	23
Melting Point (^oC)	-	-	637	44	-272	-223	Vary	113	669	98

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a) Select **two** elements that can have oxidation number of -2 **(2mks)**

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b) Which elements represent:

i) The most reactive metal? **(1mk)**

……

……

ii) The most reactive non-metal? **(1mk)**

……

……

c) Which element could have the highest ionization energy? Explain **(2mks)**

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d) Select **two** elements, which when reacted:

i) Form a compound that conducts electricity in their liquid and aqueous states only. **(1mk)**

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……

……

ii) Form a compound that dissolves in water to form an acidic solution. **(1mk)**

……

……

……

e) Using a dot (•) and cross (×) diagram, show the bond between **A** and **R**. **(2mks)**

f) The melting point of **V** is higher than that of **E**, Explain **(2mks)**

……

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g) Beaker containing the sulphate of **E** poured into another beaker containing lead (II) sulphate. Describe how the two solids can be separated. **(3mks)**

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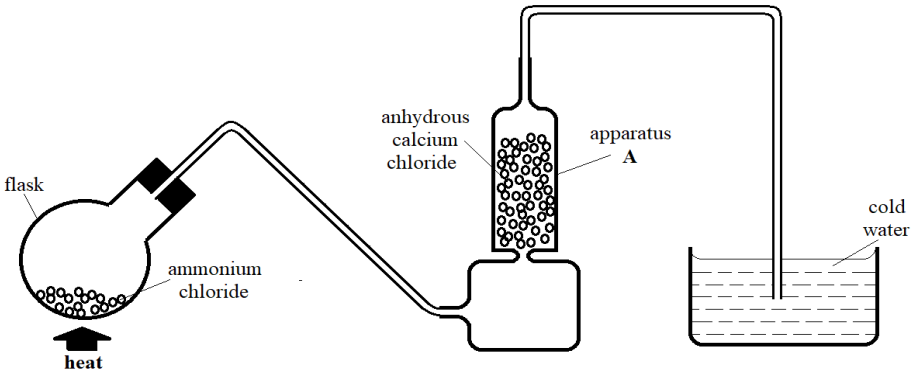
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2. A student wanted to prepare aqueous ammonia in the laboratory and set up the apparatus below.



a) State **three** mistakes made in arranging the setup **(3mks)**

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b) Name apparatus **A** **(1mk)**

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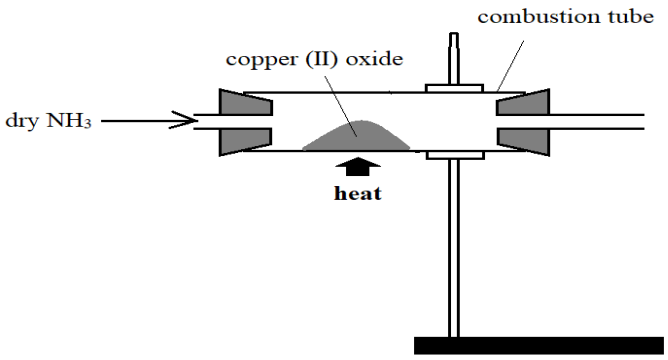
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c) Write the equation for the reaction that is expected to take place in the flask **(1mk)**

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……

d) Dry ammonia was passed over hot copper (II) oxide, as shown in the diagram below



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i) State an observation that would be made in the combustion tube. **(1mk)**

……

……

……

ii) Write an equation to show the reaction that occurred in the combustion tube. **(1mk)**

……

……

e) Ammonia gas can be reacted with a certain reagent to produce ammonium sulphate, which is a fertilizer.

i) Write an equation to show how the fertilizer would be formed. **(1mk)**

……

……

ii) Calculate the percentage by mass of nitrogen in the fertilizer. **(3mks)**

(N =14, H = 1, O = 16, S = 32)

f) State and explain the observation made when excess ammonia solution is added to copper ions. **(2mks)**

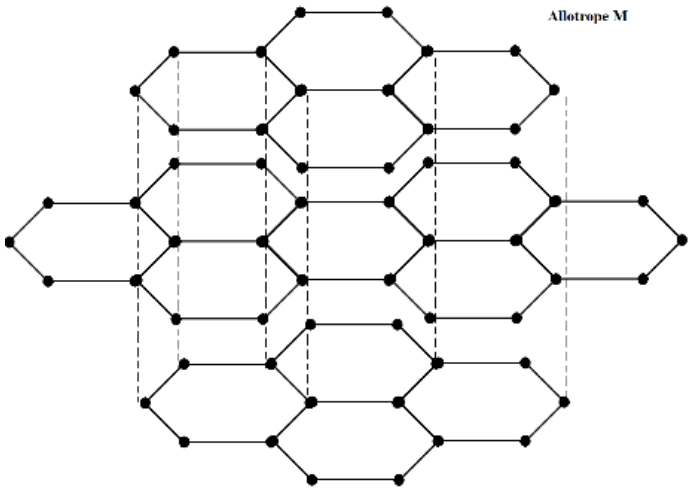
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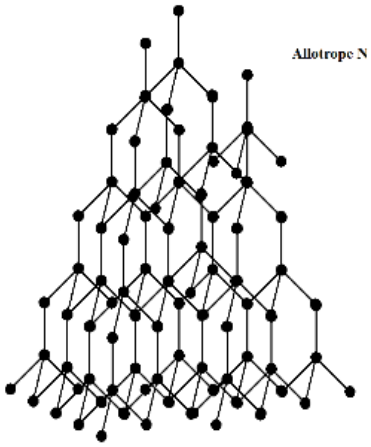
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3. The diagrams below show the structures of two allotropes of carbon. Study them and use them to answer the questions that follow.





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a) Define the term 'allotropy'. **(1mk)**

……

……

……

b) Name the allotropes illustrated above: **(2mks)**

M _____

N _____

c) Give **one** use of **N** **(1mk)**

……

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d) Which letter represents the allotrope that conducts electricity? Explain **(2mks)**

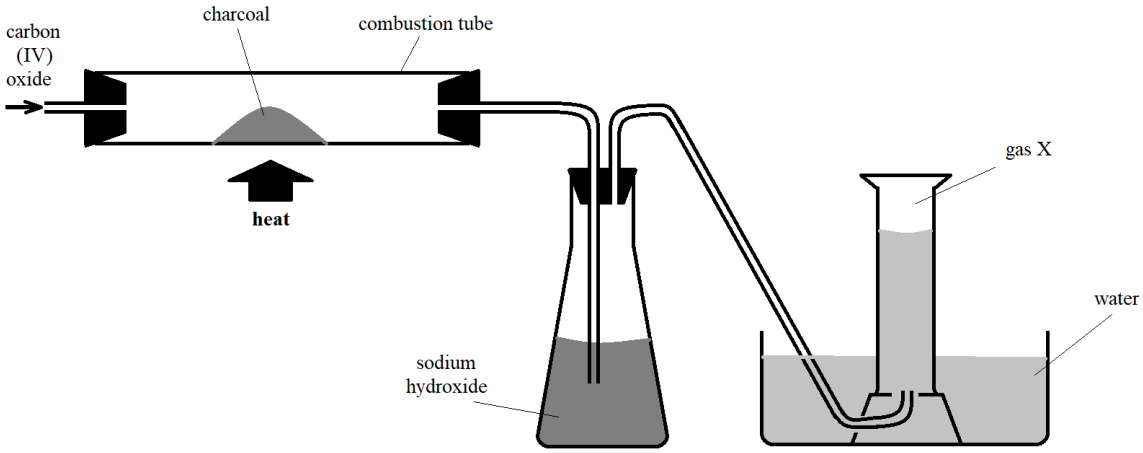
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e) In an experiment, carbon (IV) oxide was passed over heated charcoal and the gas produced collected as shown in the diagram below.



i) Write an equation for the reaction taking place in the combustion tube. **(1mk)**

……

……

ii) State the purpose of the sodium hydroxide solution. **(1mk)**

……

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iii) Name another substance that could be used in the place of the sodium hydroxide solution. **(1mk)**

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iv) Describe a simple chemical test that can be used to distinguish between carbon (IV) oxide and **gas X** **(2mks)**

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……

v) Give **one** use of **gas X**. **(1mk)**

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4. During an experiment, sulphur (IV) oxide gas diffused through an orifice at a rate of 25.0cm^3 per minute. Under the same conditions, another **gas V** diffused through the same orifice at a rate of 26.26cm^3 per minute.

a) Determine the molecular mass of **gas V** (O =16, S = 32) **(2mks)**

b) Gas **V** consists of 87.2% by mass carbon and the rest is hydrogen. Determine the molecular formula of gas **V**. (H = 1, C = 12) **(2mks)**

c)

i) Name the homologous series to which gas **V** belongs. **(1mk)**

……

……

ii) Name and draw **two** possible isomers of gas **V**. **(3mks)**

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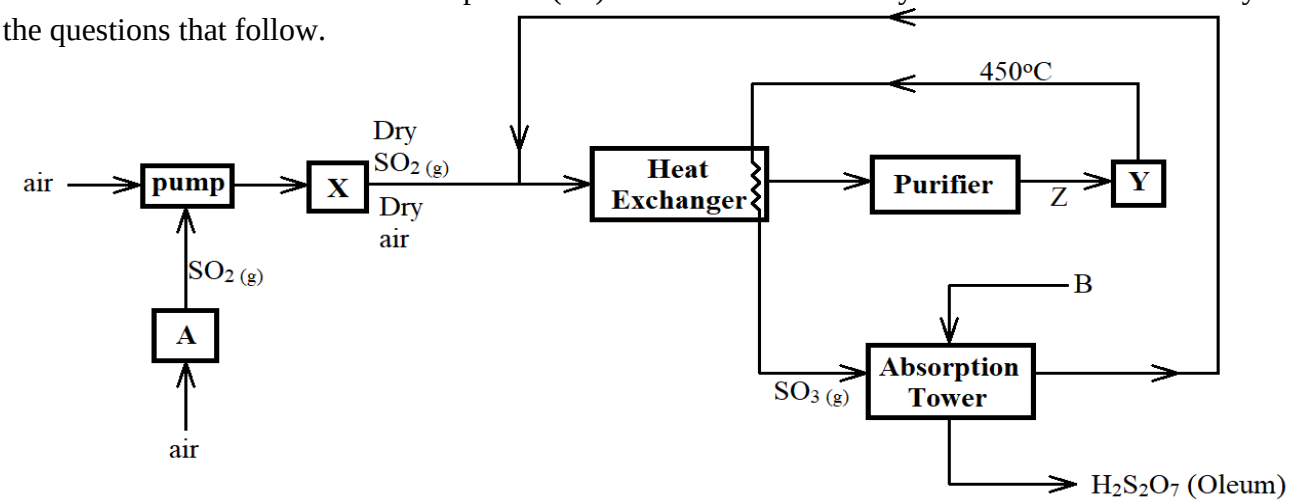
d) If one mole of gas **V** burned completely in air, white a chemical equation for the reaction that took place. **(1mk)**

……

……

e) Calculate the volume of a 0.2M sodium hydroxide solution that would react completely with a solution containing 3.0g of CH_3COOH. (C =12, H = 1, O = 16) **(2mks)**

5. The flow chart below shows how sulphuric (VI) acid is manufactured by the Contact Process. Study it and answer the questions that follow.



a) Name **two** raw materials in **A** **(2mks)**

……

……

……

……

b) Name:

i) The reagent used in **X** **(1mk)**

……

……

ii) The impurities that are removed at the purifier. **(1mk)**

……

……

……

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c) State the importance of the purifier in the Contact Process **(1mk)**

……

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d) Write chemical equations for the reactions taking place in:

i) Chamber **Y** **(1mk)**

……

……

ii) Absorption Tower **(1mk)**

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……

iii) Describe the process that takes place in the heat exchanger. **(1mk)**

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iv) Identify **B**. **(1mk)**

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……

e) Sulphur (VI) oxide gas is absorbed in substance **B** before dilution, rather than dissolving it directly in water. Explain. **(1mk)**

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……

f) Name the most suitable catalyst for the Contact Process. **(1mk)**

……

……

g) State and explain the observations made when concentrated sulphuric (VI) acid is added to:

i) Copper (II) sulphate crystals **(1½mks)**

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ii) Sucrose crystals **(1½mks)**

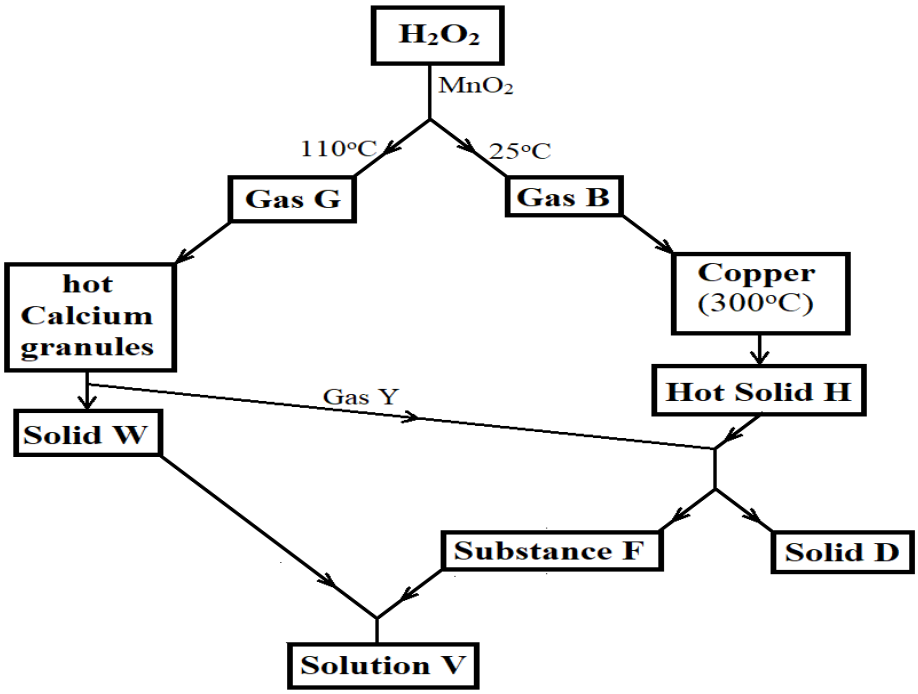
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6. Study the flow diagram below and answer the questions that follow



a) Name the following substances: **(2mks)**

i) Gas **B** _____

ii) Gas **G** _____

iii) Gas **Y** _____

iv) Solid **W** _____

b) State:

i) The property displayed by the reaction of Gas **Y** and the hot Solid **H**? **(1mk)**

……

……

ii) The observation made during the reaction of Gas **Y** and the hot Solid **H**. **(1mk)**

……

……

c) Write chemical equations for the reactions between:

i) Gas **G** and hot calcium granules **(1mk)**

……

……

ii) Gas **B** and copper **(1mk)**

……

……

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iii) Solid **W** and substance **F** **(1mk)**

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……

d) Solid **D** was added into a conical flask containing 0.5M HCl solution. The flask was then warmed. State and explain the observations made in the conical flask. **(2mks)**

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e) State **one** use of solution **V** in the laboratory **(1mk)**

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f) Describe a chemical test that can be used to identify substance **F** **(2mks)**

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g) Solid **H** was added to 0.5M nitric (V) acid and warmed

i) State the observation that was made at the end of the experiment **(1mk)**

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ii) What type of reaction is this? Explain. **(2mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN: ……..… DATE: ……..

Term 2

FORM 3

CHEMISTRY PAPER 3 (233/3)

Time: 2¼Hours

INSTRUCTIONS

1. Write your name and Number in the spaces provided above
2. Answer all the questions in the spaces provided above
3. Mathematical tables and silent electronic calculators may be used

For examiner's use only

Questions	Maximum scores	Candidates scores
1	24	
2	10	
3	06	
	40	

QUESTION 1

You are provided with solution **P** and **Q**

Solution **P** is 1M hydrochloric acid

Solution **Q** contains 4.2 grams of the hydroxide of metal **X** (with formulae XOH) in 750cm^3 of the solution

You are required to carry out the experiment to determine the R.A.M of metal **X**

Procedure

1. Measure 60cm^3 of solution P using a clean measuring cylinder and put into a 250cm^3 volumetric flask. Add distilled water up to the 250cm^3 mark and then label the resulting solution **F.**
2. Fill a clean burette with solution **F**.
3. Pipette 25cm^3 of solution **Q** into a clean conical flask and add 2 drops of phenolphthalein indicator.
4. Titrate solution **F** against solution **Q** and record the results in the table below.
5. Repeat step 3 and step 4 above two more times as you complete the table below.

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	I	II	III
Final burette reading			
Initial burette reading			
Volume of solution F used			

(5mks)

a) Calculate the:

i) Average volume of solution F used **(1mk)**

ii) Concentration of solution F in moles per litre (2mks)

iii) Concentration of solution F in grams per litre (H = 1, Cl = 35.5) **(2mks)**

iv) Number of moles of solution F that reacted with each $25cm^3$ portion of solution Q **(3mks)**

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b) Given the equation of the reaction between the solution Q (XOH) and the solution F (HCl) as:

$$XOH_{(aq)} + HCl_{(aq)} \rightarrow XCl_{(aq)} + H_2O_{(l)}$$

Calculate the:

i) Number of moles of solution Q that reacted with each portion of solution F **(3mks)**

ii) Concentration of solution Q **(2mks)**

iii) Number of moles of the metal hydroxide (XOH) in 750cm^3 of solution Q **(2mks)**

iv) R.F.M of the metal hydroxide (XOH) **(2mks)**

v) R.A.M of metal X (O = 16, H = 1) **(2mks)**

2.You are provided with solid **R**. Carryout the test and record your observation and inference in the space provided.

(i) Place the entire solid in the boiling tube. Add 10cm^3 distilled water and shake

Observation	Inference
(**1mk**)	**(1mk)**

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Divide the solution into four portions

(ii) To the first portion, add aqueous sodium hydroxide solution dropwise till excess

Observation	Inference
(**1mk)**	**(1mk)**

(iii) To the 2nd portion add ammonia dropwise till excess

Observation	Inference
(**1mk)**	**(1mk)**

(iv) To the 3rd portion add three drops of barium nitrate

Observation	Inference
(**1mk)**	**(1mk)**

(v) To the forth portion add 2cm^3 of lead [II] nitrate and warm

Observation	Inference
(**1mk)**	**(1mk)**

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3.You are provided with liquid H. Carryout the test and write your observation and inferences below.

(a) Place about third of liquid H on a metallic spatula and ignite it using Bunsen burner flame

Observation	Inference
(**1mk)**	**(1mk)**

(b) Place remaining of H in a test tube, add 5cm3 of distilled water and shake the mixture well retain the mixture for the next test

Observation	Inference
(**1mk)**	**(1mk)**

(c) To about $2cm^3$ of the mixture, add 2to 3 drops of acidified potassium manganate (VII)solution

Observation	Inference
(**1mk)**	**(1mk)**

THIS IS THE LAST PRINTED PAGE

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN: ……..… DATE: ……..

Term 2

COMPUTER STUDIES PP1

(QUESTION PAPER I)

FORM THREE

TIME: 2 1/2 HOURS

INSTRUCTION TO CANDIDATES

- Write your name and index number in the spaces provided above
- This paper consists of **Two** sections **A** and **B**
- Answer **ALL** questions in section **A**
- Answer question16 and any other **THREE** questions from section **B**
- All answers should be written in the spaces provided on the question paper

FOR EXAMINER'S USE ONLY

SECTION	QUSTIONS	CANDIDATE'S SCORE
A	1 -15	
	16	
	17	
	18	
	19	
	20	
	TOTAL SCORE	

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SECTION A (40 MARKS)
Answer ALL the questions in SECTION

1. State two difference between compilers and interpreters **(2mks)**

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2. Give three reasons why Magnetic Ink Character Recognition are too popular in banking industry for cheque processing (**3mks**)

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3. Change $\frac{14}{64}$ base 10 to binary **(3mks)**

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4. Describe the following numbering system **(4mks)**

(i) Hexadecimal

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(ii) Octal

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5. State functions a primary key in a database **(2mks)**

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6. Mention three hardware related factors that one need to consider before installing an operating system in a computer **(3mks)**

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7. Typing in Ms-Word is easier and efficient. Give three features that make this possible **(3mks)**

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8. Describe three reasons why primary storage is not used for secondary storage **(3mks)**

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9. A coding scheme represent a word as $10110101001010010001010 1_2$. Get the number of **(2mks)**

(i) Nibbles in the word

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(ii) Bytes in the word

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10. Kenya Power Lighting Company sends out staff to read power meters at the end of every month. The data collected by the staff is fed into the computer then process at the same time to generate bills

(i) Name this type of data processing **(1mk)**

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(ii) State two advantages of this approach **(2mks)**

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11. Explain how data in a computer can be secured using **(2mks)**

(i) Password

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(ii) Firewall

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12. Represent -23_{10} in three ways in 8 bit binary **(3mks)**

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13. Name three change case options supported by Ms-publisher **(3mks)**

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14. What is a database **(1mk)**

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15. Use illustrations to explain how While.... Do and Repeat..... Until can be implemented **(3mks)**

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SECTION B (60 MARKS)

16.

(a) Define the following terms with regard to programming **(3mks)**

(i) Machine dependent

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(ii) Bug

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(iii) Syntax

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(b) Distinguish between pseudo code and program flowchart as used in programming **(2mks)**

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(c) List three methods used by programmers to detect errors in a computer program **(3mks)**

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(d) Jane deposited 10000 shillings in Mwalimu Sacco at an interest rate of 10% per annum .At the end of each year, the interest earned is added to the deposit and the new amount becomes the deposit of that year. Design a flowchart for a program that would track the growth **(7mks)**

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17.

(a) Give three reasons to justify why most electronic devices prefer using binary number system **(3mks)**

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(b) Convert

(i) 1001011.001010_2 to decimal number **(3mks)**

(ii) 621_{10} to Hexadecimal number **(3mks)**

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(c) Using twos compliment subtract 9_{10} from 3_{10} , leave your answer in binary notation **(3mks)**

(d) Arrange the following numbers in order from smallest to largest **(3mks)**
1001011_2, ABH, 67_8 and 45_{10}

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18.

(a) Describe the following database features

(i) Macro **(2mks)**

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(ii) Module **(2mks)**

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(iii) Table **(2mks)**

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(b) Study Table A and B then use it to answer questions that follows

Table: A

Field Name
ID Number
Last Name
First Name
Address
Town

Table: B

Field Name
ID Number
Product ID
Product Name
Unit cost
Quantity
Date of Birth
Total

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(i) Identify the most appropriate data type for ID Number, Product Name and Quantity **(3mks)**

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(ii) Given that the data type for Total is calculated write an expression to be entered in the expression builder **(2mks)**

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(iii) Suggest how date birth can be validated to restrict entries of future dates **(2mks)**

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(iv) Explain how a relation can be created between Table A and B **(2mks)**

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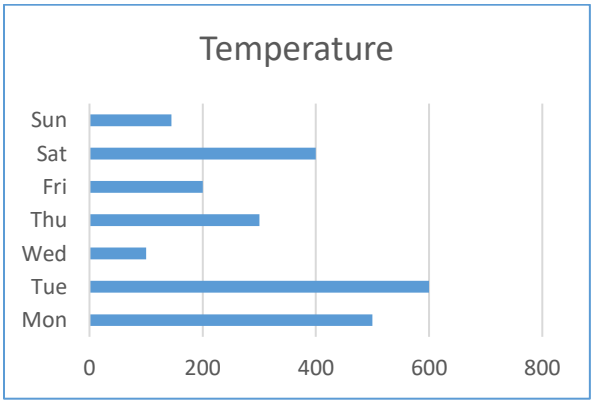
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19.

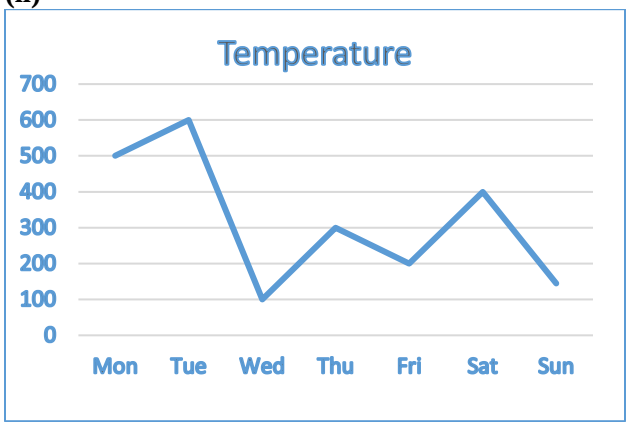
(a) Identify the type of graph represented in (i), (ii) and (iii) below **(3marks)**

(i)

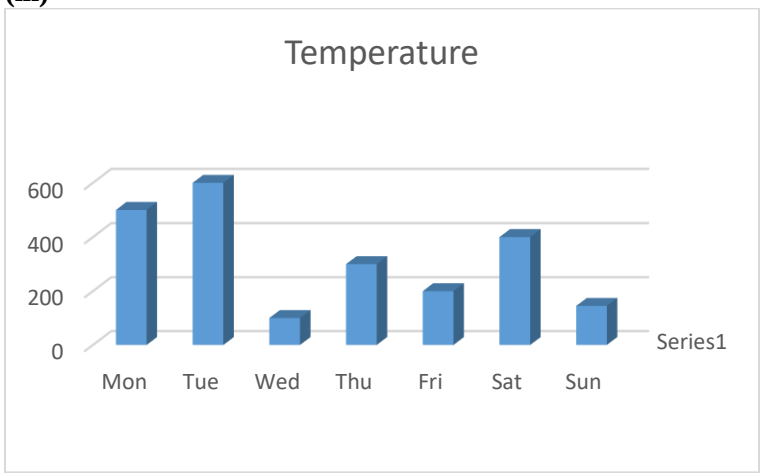


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(ii)



(iii)



(b) Explain why spreadsheet suitable for the following applications **(2mks)**

(i) Statistical

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(ii) Accounting

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(c) A form student was feeding data in a Ms-excel table. He keyed in half in cell and then the cell displayed 02-Jan after pressing the enter key. State the cause of this anomaly and how it can corrected **(2mks)**

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(d) The formula =$C1+$D$2 was typed in Cell G3. State how the formula will appear if it copied to cell H4 **(2mks)**

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(e) Enumerate three emerging issues affecting use of internet **(3mks)**

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(f) Briefly describe the functions of the following Navigation toolbar in an Internet Browser **(3marks)**

(i) History button

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(ii) Refresh button

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(iii) Download button

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20.

(a) What is intellectual property right **(2mks)**

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(b) Give four ways of controlling unauthorized access to a computer room **(4mks)**

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(c) State four signs associated with a computer infected with a virus **(4mks)**

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(d) Most organizations are now backing up their data online. State three reasons for backing data online **(3mks)**

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(e) Apart from cost and speed state any other two difference between SRAM and DRAM **(2mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES ONE EXAMS

NAME: ……

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451/2 - COMPUTER - Paper 2

STUDIES
(PRACTICAL)
2½hours

INSTRUCTIONS TO THE 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.

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Question One

Team Mafisi Association in Nairobi created a database file for their members. In addition to entering a members' numbers and names, each record contained a date of registration of each member, membership fees paid and title of the activity.

Table 1

MEMBERSHIP NUMBER	NAMES	REGISTRATION DATE	REGISTRATION FEES	ACTIVITY
97PO316	Bondo Malanda	12/20/97	100	BLACKSMITH
93P0464	Kori Blanda	08/2/93	50	SEWING
95PO218	Issa Munir	03/11/95	120	POTTERY
94PO177	Alvin Kanga	05/24/94	200	BLACKSMITH
97PO010	Adam Ayaila	09/08/97	150	PAINTING
95PO849	Valji Patel	10/28/95	240	WIRING
96PO748	Kamau Nderi	02/14/96	300	WIRING
92PO100	Otieno Omuka	04/18/92	124	BLACKSMITH

(a) Create a database file structure called tmafisi using the information given in Table 1. The field names should match those of the data provided. Choose an appropriate primary key. Save the table as EretriaT. **(5Mks)**

(b) Validate the registration date field to accept dates that follow between 1992 and 1997 **(3mks)**

(c) Restrict data entry in Registration fee column to accept only whole numbers between 40 and 400 **(3mks)**

(d) Create a form and save it as FormEretrial **(5mks)**

(e) Use FormEretial to append the data in Table 1 on the structure created in (a) above **(5Mks)**

(f) Sort the records in EretriaT on the fields you have defined for name in ascending order. Save the table as EretriaT_2. **(7Mks)**

(g) Create a report of the records in EretriaT. The report should contain the following fields: Names, date of registration, and title of the activity. The report should sum up all the fees paid. The page title of the report is "Team Mafisi Registration". Save the report as tMafis_1(7 Marks)

(h) Create a query to generate a list of members whose names end with "a" and the activity is Blacksmith or Wiring. Save the query as QueryName **(4mks)**

(i) Use the data from EretriaT to create a query to extract all the records whose activity is "Blacksmith". Save the query as queryblack **(4Mks)**

(j) Create a form for the query above name it Eretria_F **(3mks)**

(k) Print a report , queries and FormEretrial **(4mks)**

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Question Two

(a) Create a worksheet with the following entries and save the workbook as NOMA:

OMBAHEKIMA ACADEMY				
FORM THREE END YEAR EXAM MARKS				
STUDENT NAME	**ENGLISH**	**KISWAHILI**	**MATHEMATICS**	**HISTORY**
Ayuku Aseka	70	60	40	50
Irungu Wambua	50	70	60	40
Khalifa Mudigo	80	40	50	60
Nosieta Soita	30	75	60	50
Onyango Otieno	40	55	70	60

Adjust column width where necessary to display all entries in detail. Validate the cells to accept ONLY numerals between 0 –100 and return a comment "Please enter a number between 0 and 100" whenever an out of range error occurs. Save the worksheet as

MARKS. (11Mks)

(b) Obtain the following:

(i) Total score for each student **(2mks)**
(ii) Mean score for each student **(2mks)**
(iii) Highest score per subject **(2mks)**

(iv) Postion for each student **(2mks)**

(c) Grade the students using the grade for each student based on the following information (5marks)

MEAN	**GRADE**
75 – 100	**A**
70 – 74	**A-**
65 – 69	**B+**
60 – 64	**B**

(d) Insert a new row for Chege Kisilu between Ayuku Aseka and Irungu Wambua. Enter his scores as 60, 50, 80, and 20. **(3Mks)**

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(e) Sort data in the worksheet such by mean **(3mks)**

(f) Format the ranges with values for mean score and to display results to 3 decimal places. Copy the content of Marks1 and paste in a new worksheet then save it as MARKS2. **(4Mks)**

(g) Insert a column chart to represent students and mean. Label the chart appropriately so as to show chart title, legend, x and y axis **(7mks)**

(h)Select a free cell and enter 10%. Use the value entered to increment the mean score of each student**.** **(6Mks)**

(i)Print MARKS1, MARKS2 and a column chart (3 Marks)

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END TERM 2 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN: ……..… DATE: ……..

Term 2
CHRISTIAN RELIGIOUS EDUCATION PP1
FORM THREE (3)
Time: 2½ Hours

ANSWER ALL THE QUESTIONS

1 (a) Give the moral importance of studying Christian Religious Education **(6mks)**

b) Outline four similarities between traditional African view of evil and Biblical concept of sin **(8mks)**

c) Give **SIX** causes of evil in the modern society. **(6mks)**

2 (a) State reasons why David was considered the greatest King of Israel **(8mks)**

(b) How did Prophet Elijah fight against corruption and injustice in Israel? **(6mks)**

(c) Give SIX causes of evil in the modern society. **(6mks)**

3 (a) State **SIX** reasons why Jesus sent the Holy spirit to the disciples after his ascension **(6mks)**

(b) Explain how the unity of believers is expressed in the image of the body of Christ.1st Cor12:12-31. **(8mrks)**

(c) Ways in which the gift of prophecy strengthens the church today **(6mks)**

4 (a) Give the characteristics of prophets? **(7mks)**

(b) Discuss Gods judgement on Israel according to prophet Amos **(7mks)**

(c) What is the relevance of Amos' teaching on social justice and responsibility to Christians today? **(6mks)**

5(a) Describe any four moral values acquired during initiation rituals **(8mks)**

(b) Outline seven importance of payment dowry in Traditional African Societies **(7mks)**

(c) How has the Kenyan government promoted African culture? **(5mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN: ……..… DATE: ……..

313/2 - CHRISTIAN RELIGIOUS EDUCATION - Paper 2

$2\frac{1}{2}$ *hours*

INSTRUCTIONS TO CANDIDATES

a) Write your name and index number in the spaces provided above.

b) This paper consists of six questions.

c) Answer any five questions

d) Each question carries 20 marks

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Questions	1	2	3	4	5	6	TOTAL
Score							

1a) Give the prophecies about the Messiah found in psalms 41: 19 and 110:1-2. **(8mks)**

b) With reference to the annunciation of Jesus explain how his birth and life were to be extraordinary **(7mks)**

c) Why are Christians finding it difficult to apply the teachings of John the Baptist in their lives today? **(5mks)**

2a) How did Jesus demonstrate the teachings in the sermon on the plain in his ministry. **(7mks)**

b) Outline the story of the raising of the widow's son at Nain **(8mks)**

c) State ways in which a Christian can eradicate discrimination in the society today **(5mks)**

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3 a) Explain how Jesus' triumphant entry into Jerusalem failed to portray Him as an earthly Messiah **(6mks)**

(b) Outline the events that took place when Jesus was put on the cross Lk 23:33-46 **(8mks)**

(c) In what ways does the church prepare Christians for the second coming of Jesus? **(6mks)**

4 a) Outline five teachings about Jesus from Peter's message on the day of Pentecost. **(5mks)**

b) Describe Christians as the people of God in 1st Peter 2:9-10 **(8mks)**

c) Give ways in which Christians can help curb disunity in today's church **(7mks)**

5a) Why is it important for a Christian to work? **(7mks)**

b) How does work relate to leisure in the Christian Context? **(7mks)**

c) Explain the qualities of a good employee. **(6mks)**

6a) What are the possible effects of a wide gap between the rich and the poor in today's society**.** **(7mks)**

b) How has money economy interfered with Christian living? **(7mks)**

c) Write down seven reasons why Christians should participate in the law reform process **(6mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN: ……..… DATE: ……..

Term 2
ENGLISH
PAPER 1 (101/1)
FORM THREE (3)
Time: 2 Hours

(FUNCTIONAL SKILLS)

INSTRUCTIONS TO CANDIDATES

1. Write your name and admission number in the spaces provided above
2. Answer **ALL** the questions that are asked in this paper in the spaces provided
3. Candidates should check to ascertain that all pages are printed as indicated and no questions are missing
4. Candidates must answer their questions in English.

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SECTION	MAXIMUM SCORE	CANDIDATE'S SCORE
A	20	
B	10	
C	30	
TOTAL SCORE	60	

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1. <u>SECTION A(FUNCTIONAL WRITING)</u> 20 marks

You are throwing a party at home during one of the weekends. You have planned to invite your friends through a card. If there are five special guests and master of ceremonies invited, design that card.

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2. SECTION B CLOZE TEXT (10MRKS)

Read the passage below and fill in the blanks with the most appropriate word.

A student in Mandera County **(1)…….**history after scoring an A in the 2019 form four examination. Ibrahim Abdi Ali, a former student at Sheikh Ali Secondary School **(2)…….**the troubled Rhamu Sub County**,(3)…….**81 points. No Mandera student had **(4)…….**scored an A.

Speaking at Tawfiaq Secondary School where **(5)…….**has been a Volunteer teacher, Ibrahim said it was by God's (**6)…….**that he broke the record in the hardship**(7)……..** "I challenge students to keep the fire **(8)…….**since it has taken me much perseverance to achieve this," he said.

Ibrahim said he **(9)……**out of school in form two due to lack of fees**,(10)……**the Principal of Sheikh Ali came to his rescue.

3. SECTION C ORAL SKILLS (30MRKS)

READ THE POEM BELOW AND ANSWER THE QUESTIONS THAT FOLLOW.

SUNSET

The sun spun like
A tossed coin
It whirled on the azure sky
It clattered into the horizon
It clicked in the slot
And neon lights popped
And blinked "time expired,"
As on parking meter.

(Oswald Mbusiyeni)

Questions

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

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(ii) How would you say the last line of this poem. **(2mks)**

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(iii) Identify and illustrate any other sound patterns used in the poem. **(4mks)**

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(iv) State and illustrate two non-verbal cues that you would use to make the recitation of the above poem interesting. **(2mks)**

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(a) Write a word pronounced exactly the same way as: **(5mks)**

i) Break

ii) Fold

iii) Gate

iv) Hew

v) Metal

(b) Underline the silent letter(s) in: **(3mks)**

i) Chorus

ii) Months

iii) Crochet

(c) Indicate whether the following have a rising or falling intonation **(3mks)**

(i) What a wonderful watch you have.

……

……

(ii) Hand in your answer sheets now.

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……

(iii) Can I assist you?

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……

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(d) You are expected to address an assembly of noisy students. How would you ensure that they listen to you? (4mks)

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(f) <u>Below is an extract from a discussion. Read it carefully and answer the questions that follow.</u>

CHAIRPERSON: Manzee, the teacher of English left us this question. Let's hurry over it and go on with other things. The question is "What role does Mrs Linde play in the A Doll's House? Evans, what do you think?

TEDDY: Excuse me. We have not chosen a secretary. How can we go on without one? Everybody chill. Let everybody take down their notes. So, we do not need a secretary.

EVANS: What about the report we have to make. A secretary is necessary for a discussion of this nature.

CHAIRPERSON: (*Furiously*) you can't over-rule us here, Evans. You'd better shut up. Wandia is Aoro's wife who offers assistance in raising their family.

FLORA: (Loudly) Noo! But Mrs Linde abandons her relationship with Krogstad and goes for further studies A rich old man. She is……..

DAVE: We are not talking about….

CHAIRPERSON: Eeh! Stop it! Mrs Linde develops the plot in the story. She agrees to marry a rich old man so as to fend for her family. Let's stop there, discussion over.

ELIZA: (*Amid pandemonium*) But we haven't finished the assign……

CHAIRPERSON: I said over. Next time.

<u>Questions</u>

1. Based on your knowledge of group discussions, identify 3 weaknesses in the discussion. **(5mks)**

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END TERM 2 SERIES ONE EXAMS

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Term 2

ENGLISH

PAPER 2 (101/2)

FORM THREE (3)

Time: 2 ½ Hours

{Comprehension, Literary Appreciation & Grammar}

Instructions to candidates

- *Write your **Name, Index number** and the **Date** in the spaces provided above.*
- *Answer **all** the questions in this paper.*
- *All your answers **must** be written in the spaces provided in this question paper.*
- *All working **must** be clearly shown where necessary*

Questions	Maximum score	Candidate's score
1	20	
2	25	
3	20	
4	15	
Total score	80	

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A. COMPREHENSION (20MARKS)

Read the passage below and answer the questions that follow.

Napoleon Bonaparte, leader of France in the early 19th century, once said that 'impossible' is only found in the dictionary of fools. For long, the plight of needy pupils who did not benefit from the host of scholarships in the country has been brought to our attention. Through their resilience, they have given credence to Napoleon's word.

These children have gone out of their way to awaken us to the fact that education is a basic human right. Children from across the country have trekked to various secondary schools to plead with the respective principals to admit them despite their lack of school fees. Theirs have been bravery and courageous acts tinged with desperation.

Unfortunately, this is happening at a time the nation is gripped with the Building Bridges juggernaut on which colossal sums of money been allocated.

Had that money been channeled to where it matters most, it would have given relief to many families. To our politicians though the quest for power overrides any other pressing national issues. To them, our problems require political answers to be found in creating more leadership positions.

Education is a **basic** human right. **Basic education** runs **from** early childhood **to secondary** level. It is thus the duty of the government to **ensure children** are not denied this right.

Our constitution is explicit on this. Moreover, myriad international legal instruments bind the government to facilitate the enjoyment of the right by citizens unfettered.

At least the current effort at 100 per cent transition to secondary school level is laudable. However, infrastructure and personnel in schools yearn for urgent attention. The schools are bursting at the seams. If this challenge is not addressed urgently, most institutions will gradually decline.

That aside, we should revisit our approach to issuance of scholarships to needy members of society. We not only need to cater for the fees and other school requirement for the child, we should go further and look at the homes of the cases.

The parents and guardians need to be empowered to break the cycle of poverty. Learning will be best where both the home and school environment are conducive to learning. From what we have been shown by the media. It is clear that attempts at provision of scholarships have not successfully benefitted all the needy cases.
If it did, how come these cases escaped media attention? At least the private sector, and to some extent the scholarships scheme spearheaded by the Ministry of Education have, to an extent, been successful.
But I doubt whether a thumbs-up can be given to those run by our politicians. There are numerous cases where friends, relatives and a caboodle of undeserving cases have benefited while the needy cases are ignored.

This calls for a paradigm shift in our approach to scholarships for post-primary learners. Most Kenyans are poor. Nonetheless the government, corporations and individuals, can bring a smile to the faces of the many needy cases in our midst.

Donations are good. At least they give a temporary reprieve to the children. However, there is needed to come up with a more airtight approach to the problem. My prayer is that when this is done, we get people of high integrity to oversee the process. The canker of corruption as we all know is our greatest undoing as a nation.

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The point to start is by the government getting data on the needy cases from field officers before the exams. Second, the government should ensure all schemes dealing with public funds are managed by the Ministry of Education.

It is vital to divorce the scholarships from performance. We should remember that most deserving cases come from poor families where shortage of essentials of life may hamper good performance.

Harmonization of the schemes from the public coffers does not mean we do away with those managed by corporate bodies and other foundations. It is vital for the government to enter into partnership with all players in this domain.

Spreading the scope of the beneficiaries should force us to come up with other innovative measures to address the problem. There is need to encourage more bodies to include provision of scholarship to needy cases in their corporate responsibility.

Secondary schools through their boards of managements and parents associations should also chip in. Alumni associations can also be invigorated to lend a hand. The principals should also try not to expose the plight of the cases to other learners.

This might have a negative effect on the children's psychological growth. Ultimately, the government should go out of its way to provide quality basic education to its population

Adapted from the Daily Nation.

Questions.

1. What makes Napoleon Bonaparte's words credible? **(2mks)**

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2. What according to the author has motivated needy children to go out and seek admission to schools even without fees? **(2mks)**

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3. Explain the irony in the lack of school fees for needy children. **(2mks)**

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4. Define basic education. **(1mk)**

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5. A part from scholarships, which other measures can be taken to help the many needy cases. **(3mks)**

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6. Why is it wrong to expose a student's neediness? **(1mk)**

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7. Describe the tone the author uses in talking about politicians. **(3mks)**

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8. What two measures should the government take to ensure that all needy cases receive the help they deserve? **(2mks)**

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9. Explain what the following words and expressions means. **(3mks)**

Myriad

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Laudable

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Divorce.

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10. Change the sentence below to superlative **(1mk)**

- Donations are good.

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B. SAMARITAN EXCERPTS

Read the excerpt given below and then answer the questions that follow. (25 marks)

Narine: I did; maybe he has not seen 'it. (There is silence, then the principal continues) The App has sent shock waves across the Municipality. Leaders and many other people are in terrible panic. l am beginning to feel you might have to do a very long and hard thinking about the App. (Pauses again) I do not know how, but this matter has to be brought to a close with the urgency and seriousness it deserves. It is dangerous.

Nicole: I believe it will be over soon, once the President has launched the App, Madam Principal, Then it will be out of our hands.

Narine: I am not completely sure about that. What I am certain is that our Municipal leaders are convinced you are running the show behind the scenes as regards the App: and that-you are in a position of getting them out of the predicament they now find themselves in.

Nicole: It is natural for them to think so; most people do. And this is because I am not only the teåcher in charge of innovation but also a mentor to the two students.

Narine: Nothing beyond that?

Nicole: Nothing.

Narine: You see, Nicole, you are one of my best members of staff. It would be very unfortunate if you lied to me. I am an old lady, Nicole; old enough to be your mother and perceptive enough to know the kind of ambition you have.

Nicole: Well, I did midwife the idea of the two students and then guided them. As their mentor, I should also provide direction us regards their intellectual property as the originators of the App. But then, isn't that my role as a teacher and mentor?

Narine: Nicole, you have been here long enough to know me. I take my work seriously. I am single-mindedly focused on the mission of the school, whicll is to provide the students under our care with

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quality education. I have never allowed, and will not allow, any teacher in this institution to deviate from this course.

Nicole: I have absolutely no intention of deviating from my professional obligations as a teacher, Madam Principal.

Narine: Everything done in this school must serve the single purpose of preparing the students entrusted to us to be responsible and productive citizens. I will not stand or allow anything that will distract you, or any other member of staff, or the students, or even myself, from pursuing this mission. You must, therefore, figure out a way of putting this matter to rest. I think what you are doing is good. But it must not derail us from the greater good that is the mission of the school. Do you understand?

Nicole: Yes, yes, I understand, Madam Principal. But would you rather that we abandon such an ingenious innovation, with the great potential of improving governance in our Municipality, justto appease a self- seeking political class?

Narine: Listen to me, young lady. I am a seasoned administrator and I know the value of learning how to pick battles. You need to know which battles to wage, which ones to avoid and which ones to defer. What battle can a young girl like you have with the Mayor? If you dare an elephant into a wrestling match, will it not trample on you?

Nicole: An elephant that kills a rat is not a hero, Madam Principal.

QUESTIONS

a) Place this excerpt in 'its immediate context**.** **(4mks)**

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b) Identify two themes in this excerpt**.** **(4mks)**

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c) Describe the character of Narine and Municipal leaders as revealed in this excerpt. **(4mks)**

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d) Identify and illustrate two aspects of style used in this excerpt. **(4mks)**

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e) Explain the following images as used in the excerpt **(2mks)**

Wrestling match

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An elephant

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f) Listen to me, young-lady. Rewrite beginning: Will… **(lmk)**

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g) Why is Madam Narine cautious about Nicole's battle with the Municipal leaders? **(2mks)**

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h) Explain the meaning of the following expressions as used in the excerpt**.** **(4mks)**

Midwife

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Ingenious

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Figure out

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Defer

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c. ORAL NARRATIVE **20 MARKS**

Read the narrative below and answer the questions that follow.

THE BLACK AND THE RED GOD.

Once there were two gods, the black god and the red god. The black god was very humble, kind and loving, while the red god was malevolent and did not care about the people at all. These gods lived together away up in heaven but the black god lived below the red god, therefore closer to the people on the earth.

One day, famine spread all over the world. Cattle could find neither grass to eat nor water to drink and they were almost dying of starvation. Then the black god spoke to the red god and said, "Let us give people water for they are about to starve to death." The red god was reluctant to let the people have water, for he had no liking for them, but after much pleading from the black god, he relented. It was then agreed that water was to be released from heaven to earth. When this was done, it rained very hard for many days.

After sometimes, the red god said to the black god." You can now hold back the water, for the people have had enough." The black god answered; "let us leave it for a few more days for the earth has been parched dry". This was done, and when the red god again told the black god to hold back the water, he did so and the rain stopped falling.

A few more days elapsed and the black god now asked the red god to release some more water for the people. The red god refused; and there ensued an argument between them, with the red god threatening to wipe out all the people, whom he described as having been spoilt, and the black god struggling to prevent him from doing so. And so, up to this day, when one hears loud thunder, it is the red god tying to get past the black god to wipe out the people of the earth. But when the sound of thunder is not very loud, it is the black god who is trying to prevent the red god from killing the people.

Questions

a) Classify this narrative. **(2mks)**

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b) Describe one character trait of each god. **(4mks)**

(i) The red god

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(ii) The black god

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c) Discuss the effectiveness of any two literary devices. **(4mks)**

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d) Identify and illustrate any **three** features of oral narratives evident in this story **(3mks)**

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e) What economic activity is practiced by the people described in this story? **(2mks)**

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f) What moral lesson can be learnt from this story? **(2mks)**

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g) What do you infer from the fact that the black god lived below the red god? **(3mks)**

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D. GRAMMAR **(15 MARKS)**

a. Rewrite according to instructions in brackets. **(4mks)**

i. I met my friend while walking from home to school. **(Begin with: Walking)**

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ii. Who taught you Physics? **(Rewrite in the passive)**

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iii. Having persevered, he bore fruits. (Rewrite using "**perseverance**")

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iv. The little rascals ran round the ragged slope. **(End: …rascals)**

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b. Rewrite the sentences below replacing the word in bold with a phrasal verb formed from the word given in bracket. **(3mks)**

i. He **terminated** the engagement. (break)

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ii. Parents are advised to **rear** their children well. (bring)

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iii. After breaking into the mall, the criminals **stole** the loot. (made)

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c. Fill in the blank space with a suitable article. **(2mks)**

i. He planted **…….**eucalyptus tree behind **……..….**grandmother's house.

ii. ……..…umbrella can protect us from **……..**sun rays.

d. Rewrite the following sentences, correcting the error in each. **(3mks)**

(i) Most youths prefer playing football than hockey.

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(ii) Kimeli is the most highest paid employee in my company.

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(iii) I demand to know what is this.

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e. Fill in the blank spaces with an appropriate pronoun. **(3mks)**

(i) The children and **.....** ought to leave immediately if we want to arrive there before dark.

(ii) The organizers have invited Manzizi and **.....** but I don't intend to go.

(iii) Since he obtained the highest grade, the school should give the award to no one else but**……..**

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN: ……..… DATE: ……..

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

Instructions to the candidates

i.Write your name and admission number in the spaces above.
ii. Answer the questions in the spaces provided.
iii. Check to ascertain that the paper has all questions.
iv. The paper has 2 printed pages.

FOR EXAMINER'S USE ONLY

QUESTIONS	MAXIMUM SCORE	CANDIDATE'S SCORE
1.Imaginative/Creative Writing	20	
2. Compulsory Set Book Essay	20	
3. Optional Set Book Essay	20	
TOTAL	60	

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1. **Imaginative composition**(compulsory)

Either

(a) Write a story beginning with: **(20mks)**

"As he walked in through the door, I noticed he was not one of the usual customers…"

OR

(b) Write a composition explaining why students cheat in National Exams. **(20mks)**

2. **The compulsory set text**

The play:

"Despite the obvious human weaknesses, Abiola is an adorable man."Making close reference to the novel,

Fathers of Nations by **Paul B. Vitta**, write a composition to validate this statement. **(20mks)**

3. Optional Set Text

Play, A Silent Songs

(a) People with admirable traits stand out. Basing your illustrations on Vrenika Pather's Ninema, write an essay to validate this assertion. **(20mks)**

OR

(b) Intergenerational Conflicts are dominant in modern society. Basing your illustrations on ***An Artist of The floating world***, write an essay to validate this assertion. **(20mks)**

OR

C) 'Our Greatest enemies are those close to us.' Support this statement from Adipo Sidang's play "Parliament of Owls" **(20mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN: ……..… DATE: ……..

Term 2

GEOGRAPHY

(QUESTION PAPER I)

FORM THREE

TIME: 2 3/4 HOURS

INSTRUCTIONS TO CANDIDATES:

- This paper consists of **two** sections: **A** and **B**
- Answer **all** the questions in section **A**
- Answer question **6** and **any two** questions from **section B**
- All answers **must** be written in the answer booklet provided

SECTION A: 25MARKS

1. a.Name three components of the solar system **(3mks)**

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b. Give two weakness of the nebular cloud theory **(2mks)**

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2.a. What is lunar eclipse **(2mks)**

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b. List two different ways in which winds and ocean current are deflected by earth rotation in the northern and southern hemisphere respectively **(2mks)**

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3.a. What is a sea breeze? **(2mks)**

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b. Give the four main zones of the earth's atmosphere **(4mks)**

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4. a. Name three man-made lakes in Kenya **(3mks)**

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b.State two reasons why some Rift valley lakes in Kenya have saline water **(2mks)**

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5. a.Define the term climate **(2mks)**

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b. Mention any three consequences of climate changes **(3mks)**

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SECTION B: 75MARKS

Answer question 6 and any other two questions.

6. Study the map of Nyeri 1:50,000 (sheet 120/4) provided and answer the questions that follow

(a) (i) What was the magnetic variation when this map was drawn? **(2mks)**

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(ii) Calculate the area of Nyeri forest and give your answer in square kilometers **(2mks)**

(b) What is the bearing of the quarry on grid square 7457 from the trigonometrically station in the grid square 6654? **(2mks)**

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(c) Citing evidences, **identify** four social services found within Nyeri Municipality. **(4mks)**

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(d)Draw a cross section from the road junction at grid reference 732453 to grid reference 770480.On your cross section show the following: **(6mks)**

- River Kagumo
- Kiandu school
- Dry weather roads

(e) Students of Nyeri high school carried a field work in the area covered by the Map

(i) State two types of sampling that they are likely to have used. **(2mks)**

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(ii)Give three drainage features they are likely to have identified. **(3mks)**

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(f) Explain the factors influencing settlement in the area covered by the map. **(4mks)**

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7.a. i. Differentiate between a watershed and a drainage basin. **(2mks)**

ii. State three processes of river erosion. **(3mks)**

b. i. Give three ways in which river transport its load. **(3mks)**

ii. State four factors which influence river deposition. **(4mks)**

c. Give three characteristics of a river in its middle stage. **(3mks)**

d. i. Name two features produced by river rejuvenation. **(2mks)**

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ii. **Describe** how river capture occur. **(4mks)**

iii. **Explain** two positive effects of rivers to the human environment. **(4mks)**

8

a)i. Name two types of earth movements that occur within the earth crust **(2mks**

ii. Give the three processes that may lead to formation of faults in the crust **(3mks)**

b) i.Apart from the Rift valley, **name** two other features that were formed as a result of faulting **(2mks)**

ii.Explain any three characteristics of the Great Rift Valley **(6mks)**

c) Describe how rift valley lakes are formed **(5mks)**

d)Students from your school are planning to carry out a field study of an area affected by faulting.

i.State four reasons why it is important for them to have a pre-visit of the area **(4mks)**

ii.What three problems are they likely to face during field study **(3mks)**

9.a.i) Define natural vegetation **(1mk)**

ii) State four characteristics of natural vegetation found in tropical rain forests **(4mks)**

b.Explain 4 ways in which vegetation found in arid areas adapts to environmental conditions of the region **(8mks)**

c. Write the **names** of the grasslands found in the following areas **(3mks)**

i.East Africa

ii. Canada

iii. Argentina

d.i) Give two reasons why Tundra region has scanty vegetation **(2mks)**

ii) State two topographical factors that influence vegetation distribution **(2mks)**

e. State five economic importance of vegetation **(5mks)**

10. a)i.**What** is weathering? **(2mks)**

ii.Explain three factors which influence the type and rate of weathering **(6mks)**

b) List down five processes of chemical weathering **(5mks)**

c) Explain three ways in which people cause weathering. **(6mks)**

d) Explain the effect of weathering on the following

i) Tourism **(2mks)**

ii) Soil formation **(2mks)**

iii) Building industry **(2mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN: ……..… DATE: ……..

GEOGRAPHY

(QUESTION PAPER II)

FORM THREE

TIME: 2 3/4 HOURS

INSTRUCTIONS TO CANDIDATES:

- This paper consists of **two** sections: **A** and **B**
- Answer **all** the questions in section **A**
- Answer question **6** and **any two** questions from **section B**
- All answers **must** be written in the answer booklet provided

SECTION A: 25 MARKS

1.(a) Define the term mining. **(2mks)**

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(b) Name any **three** fossil fuels and energy minerals. **(3mks)**

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2.(a) What is a photograph? **(1mk)**

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(b) Name **two** types of aerial photographs. **(2mks)**

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(c) Define the term "dead ground" in reference to a photograph. **(2mks)**

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3.(a) Name two exotic beef breeds of cattle found in Kenya. **(2mks)**

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(b) State **three physical** factors that favour dairy farming in Kenya. **(3mks)**

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4.(a) Define the term derived vegetation. **(2mks)**

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(b) State any **three** edaphic and pedological factors influencing vegetation distribution. **(3mks)**

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5.(a) What is Arable farming? **(2mks)**

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(b) A part from tea, name **three** other crops grown on a large scale in the highlands East of Rift Valley. **(3mks)**

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SECTION B: 5 MARKS

Answer question 6 and any other two questions from this section.

6. The table below shows the estimates of cattle breeds in a country from 1990 - 1993.

Year / Cattle	1990	1991	1992	1993
Galloway	20000	15000	18000	19000
Aberdeen Angus	15000	10000	11000	9000
Ayrshire	9000	5000	9000	12000
Boran bulls	14000	20000	17000	15000
Jersey	35000	20000	25000	30000
Friesian	25000	20000	15000	17000

a.i. Calculate the percentage of Boran bulls in1990. **(2mks)**

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ii. Calculate the percentage of the Jersey breed in the given period. **(3mks)**

b.Draw a divided rectangle 15 cm long to represent the data for 1992. **(7mks)**

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c. Explain four measures that a government of Kenya has taken to improve pastoral farming. **(8mks)**

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d. State any five problems facing dairy farming in Kenya. **(5mks)**

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7.a. What is forestry? **(2mks)**

b. Explain three factors that favour the growth of natural forests on Mount Kenya forest. **(6mks)**

c. State five factors that have led to the reduction of the area under forest on Mount Kenya forest. **(5mks)**

d. Explain four measures that the government of Kenya is taking to conserve forest in the country. **(4mks)**

e. **Give** the difference in the exploitation of softwood forest in Kenya and Canada under the following sub-endings.

i. Transportation. **(2mks)**

ii. Period of harvest. **(2mks)**

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8.(a)(i) Define mining. **(2mks)**

(ii) Describe how shaft mining is carried out. **(6mks)**

(b) Describe the processing of trona in lake Magadi. **(6mks)**

(c) Name the **main** place in Kenya where the following minerals are mined. **(5mks)**

(i) Flourspar
(ii) Diatomite
(iii) Gold
(iv) Trona
(v) Titanium

(d) Explain **three** problems facing mining activities in Kenya. **(6mks)**

9.a) State **three** physical conditions that favour coffee growing in the central highlands of Kenya **(3mks)**

b) Describe the stages involved coffee production from picking to marketing **(8mks)**
c) Explain **four** problems facing coffee farming in Brazil **(8mks)**
d) What is mixed farming **(2mks)**
e) State **four** characteristics of shifting Cultivation **(4mks)**

10.(a) (i) Differentiate between horticulture farming and market gardening. **(2mks)**

(ii) State five characteristics that distinguish horticulture from other types of crop farming**.** **(5mks)**

(b) Give three similarities and three differences between horticulture farming in Kenya and in Netherlands. **(6mks)**

(c) Name any four flowers that are grown for export purposes in Kenya. **(4mks)**

(d) Explain four difficulties that farmers in Kenya experience in marketing horticultural products. **(8mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN: ……..… DATE: ……..

Term 2

HISTORY AND GOVERNMENT PAPER ONE (311/1)

FORM THREE (3)

Time: 2½ Hours

Instructions to candidates:

a) This paper consists of three sections A, B and C.
b) Answer all the questions 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 that 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 **one** example of audio – visual source of information on Kenyan History. **(1mk)**
2. State **two** practices introduced by Cushitic speakers among other Kenyan communities. **(2mks)**
3. What name did the Nandi give to their Supreme Being? **(1mk)**
4. List down **two** reasons why Omani Arabs were unable to control the coast immediately**.** **(2mks)**
5. What was the **main** pronouncement of the Devonshire White Paper of 1923? **(1mk)**
6. Give **two** features of missionary education. **(2mks)**
7. Name **one** Kenyan leader who signed the National Accord and Reconciliation Act on February 2008**.** **(1mk)**
8. State **one** aspect of Kenyan democracy. **(1mk)**
9. Give **one** strategic reason for the scramble and partition of East Africa. **(1mk)**
10. Name **two** Kenyan communities that showed mixed reactions. **(2mks)**

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11. State **two** roles of Mekatilili in the Agiriama resistance. **(2mks)**
12. State **one** objective of the Local Native Councils (LNC) in Kenya. **(1mk)**
13. List down **two** roles of chiefs and headmen during the colonial period. **(2mks)**
14. Give **two** grievances of the early political organizations in Kenya. **(2mks)**
15. State **two** reasons why the colonial government encouraged white settlers to come to Kenya. **(2mks)**
16. Define the concept 'Dual Citizenship'. **(1mk)**
17. Give **one** cause of international conflicts. **(1mk)**

SECTION B (45 MARKS)

Attempt any three questions from this section.

18 a) State **five** economic activities of the Somali. (5mks)
b) Explain **five** results of the migration and settlement of the people of Kenya. **(10mks)**

19 a) Give **three** factors that promoted trade between the East African Coast and the outside world. **(3mks)**
b) Explain **six** consequences of the long distance trade. **(12mks)**

20 a) State **five** causes of the Nandi resistance (1895-1906) **(5mks)**
b) Explain **five** effects of the Wanga collaboration. **(10mks)**

21 a) List down **five** problems faced by the Uganda railway builders. **(5mks)**
b) Explain **five** impact of urbanization in Kenya during the colonial rule**.** **(10mks)**

SECTION C (30 MARKS) Attempt any two questions from this section.

22 a) State **five** importance of National Integration. **(5mks)**
b) Explain **five** ways in which the bill of rights protects the rights of an individual. **(10mks)**

23 a) List down **three** advantages of written constitution. **(3mks)**
b) Explain **six** features of the independence constitution. (**12mks)**

24 a) Give **five** disadvantages of democracy. **(5mks)**
b) Explain **five** functions of the Kenya National Human Rights and Equality Commission. **(10mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN: ……..… DATE: ……..

Term 2

HISTORY AND GOVERNMENT PAPER TWO (311/2)

FORM THREE (3)

Time: 2½ Hours

Instructions to candidates:

a) This paper consists of three sections A, B and C.
b) Answer all the questions 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 that 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 **two** factors that influenced the Neolithic Revolution. **(2mks)**
2. State **two** results of the Buganda collaboration**.** **(2mks)**
3. Mention the **main** source of energy in early industrial revolution. **(1mk)**
4. List down **two** duties of the indigenous rulers in Northern Nigeria. **(2mks)**
5. Highlight **two** disadvantages of land enclosure system. **(2mks)**
6. Name **one** community that participated in the Chimurenga war. (1896-1897) **(1mk)**
7. State **two** ways in which a cell phone is used in communication. **(2mks)**
8. State **one** commune in Senegal where Assimilation was fully applied. **(1mk)**
9. Give **one** factor that led to the decline of Meroe as an early urban center. **(1mk)**
10. State **two** terms of the Berlin Conference. (2 marks)
11. Give **two** negative impacts of scientific inventions on industry**.** **(2mks)**
12. List down **two** types of trade. **(2mks)**

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13. Give **one** method used by Europeans to acquire colonies in Africa. **(1mk)**
14. State **two** duties of the Katikiro. **(2mks)**
15. Name the King of the Lozi who collaborated with the British. **(1mk)**
16. Define the term 'Hansard' as used by British unwritten constitution. **(1mk)**
17. State **one** characteristic of human rights**.** **(1mk)**

SECTION B (45 MARKS)

Attempt any three questions from this section.

18. a) State **five** features of early Agriculture in Britain before Agrarian Revolution. **(5mks)**
b) Explain **five** steps that Kenya has taken to solve food shortages. **(10mks)**

19. a) Give **three** factors that facilitated the scientific revolution. **(3mks)**
b) Explain **six** obstacles to Industrialization in India. **(12mks)**

20. a) State **five** factors that led to the growth of Trans – Atlantic trade. **(5mks)**
b) Describe the organization of Trans – Saharan trade. **(10mks)**

21. a) List down three positive results of African rebellion in Tanganyika. **(3mks)**
b) Explain **six** factors that enabled Samori Toure to resist the French for so long**.** **(12mks)**

SECTION C (30 MARKS)

Attempt any two questions from this section.

22. a) Give **five** political aspects of the Shona. **(5mks)**
b) Describe the economic organization of the Buganda. **(10mks)**

23. a) State **five** characteristics of a good constitution**.** **(5mks)**
b) Other than Hansard, explain **five** sources of British unwritten constitution. **(10mks)**

24. a) List down **five** consequences of the Land Apportionment Act for the Africans**.** **(5mks)**
b) Explain **five** reasons for the use of indirect rule in Northern Nigeria. **(10mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN: ……..… DATE: ……..

TERM 2

HOME SCIENCE

FORM THREE (3)
PAPER 1 THEORY (441/1)

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 in section **C***
e) *Answers to all the questions must be written in the spaces provided in the paper*
f) ***This paper consists of 13 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	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. State any **two** causes of anaemia other than nutritional deficiency. **(1mk)**

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2. Suggest **two** factors that may interfere with formation of lather during laundry. **(2mks)**

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3. State **two** factors that determine the choice of repair method. **(2mks)**

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4. Suggest **two** ways of keeping off pests in the kitchen. **(2mks)**

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5. Highlight **two** factors that may affect the price of goods. **(2mks)**

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6. Give **four** methods that can be used to manage a large amount of fullness in garments. **(2mks)**

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7. Suggest **six** items to include in a baby layette. **(3mks)**

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8. Mention **two** ways of conserving energy when using charcoal. **(1mk)**

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9. Suggest **two** ways of ensuring efficiency when working in the kitchen. **(2mks)**

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10. Mention **two** positive signs of pregnancy. **(2mks)**

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11. Give **two** reasons why synthetic detergents are more popular than soap in laundry work. **(2mks)**

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12. Suggest **two** reasons why steaming is a good method of cooking food for invalids. **(2mks)**

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13. Suggest **two** ways of conserving nutrients when preparing and cooking potatoes**.** **(2mks)**

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14. Give **two** reasons why a wooden chopping board should not be cleaned with hot water. **(2mks)**

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15. List **four** openings used when making a shirt. **(2mks)**

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16. Suggest **two** ways modern lifestyle contributes to obesity. **(2mks)**

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17. Highlight **three** advantages of buffet service when serving a large number of people. **(3mks)**

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18. Mention **two** qualities of toys for a 3 month old baby. **(2mks)**

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19. Highlight **two** limitations of nylon for baby's clothes. **(2mks)**

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20. Suggest **four** causes of skipped stitches when machine stitching. **(2mks)**

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SECTION B: (20 marks)

COMPULSORY

Answer question 21 in the spaces provided after the question

21. Your brother is going for national music festivals over the holiday.

a) Describe the procedure you will follow to launder his acrylic sweater with a hole and make it ready for the journey. **(12mks)**

b) Outline the procedure for cleaning the leather bag he will use to pack his clothes.

(8mks)

SECTION C: (40 marks)

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

22.

a) Discuss **three** ways of minimizing diarrhoea in children. **(6mks)**

b) Outline **five** possible reasons for banning of polythene bags in Kenya. **(5mks)**

c) Highlight **five** information you expect on a packet of maize meal and the importance of each. **(5mks)**

d) Give **four** reasons for using a plan when cooking in the Home Science exam. **(4mks)**

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23.

a) Highlight **five** qualities of a good cooking pot. **(5mks)**

b) Explain **five** disadvantages of using infant formula to feed a baby. **(5mks)**

c) Discuss **three** points to bear in mind when planning a meal for an individual. **(6mks)**

d) Outline **four** ways of encouraging a child to play. **(4mks)**

24.

a) Discuss **three** reasons why meals may be packed. **(6mks)**

b) Mention **four** preparations made on fabric before cutting. **(4mks)**

c) Outline **four** qualities of a good bath shelter. **(4mks)**

d) Discuss **three** advantages of building a family home. **(6mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN: ……..… DATE: ……..

441/2 - HOMESCIENCE - Paper 2

(PRACTICAL)

CLOTHING CONSTRUCTION

2 ½ hours

Instructions to candidates

a) This paper consists of 3 printed pages

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

c) Candidates **MUST** use machine stitches appropriately in the construction of the garment.

Hand stitches used **INSTEAD** of machine stitches will not be marked.

d) Hand stitches will only be allowed where specified

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Girl's pair of shorts

A pattern of a girl's pair of shorts is provided. You are advised to study the sketches, instructions and layout carefully before you begin the test. **Materials provided**

1. Pattern pieces
   - A- Short front
   - B- Short back
   - C- Front waist facing
   - D- Back waist facing

E-Pocket

2. Plain light weight cotton fabric **60 cm long and 90 cm wide**
3. Sewing thread to match the fabric.
4. One large envelope

THE TEST

Using the materials provided, cut out and make the LEFT LEG of the short to show the following processes:

(a)	Cutting out	**(12mks)**
(b)	Making of the back dart	**(8mks)**
(c)	Making knife pleats at the short front	**(9mks)**
(d)	Preparation and attaching of the patch pocket	**(17mks)**
(e)	Joining the side seam of the short using a French seam	**(10mks)**
(f)	Joining the inner leg using a machine fell seam	**(8mks)**
(g)	Preparation of facings and attaching them to the waistline	**(7mks)**

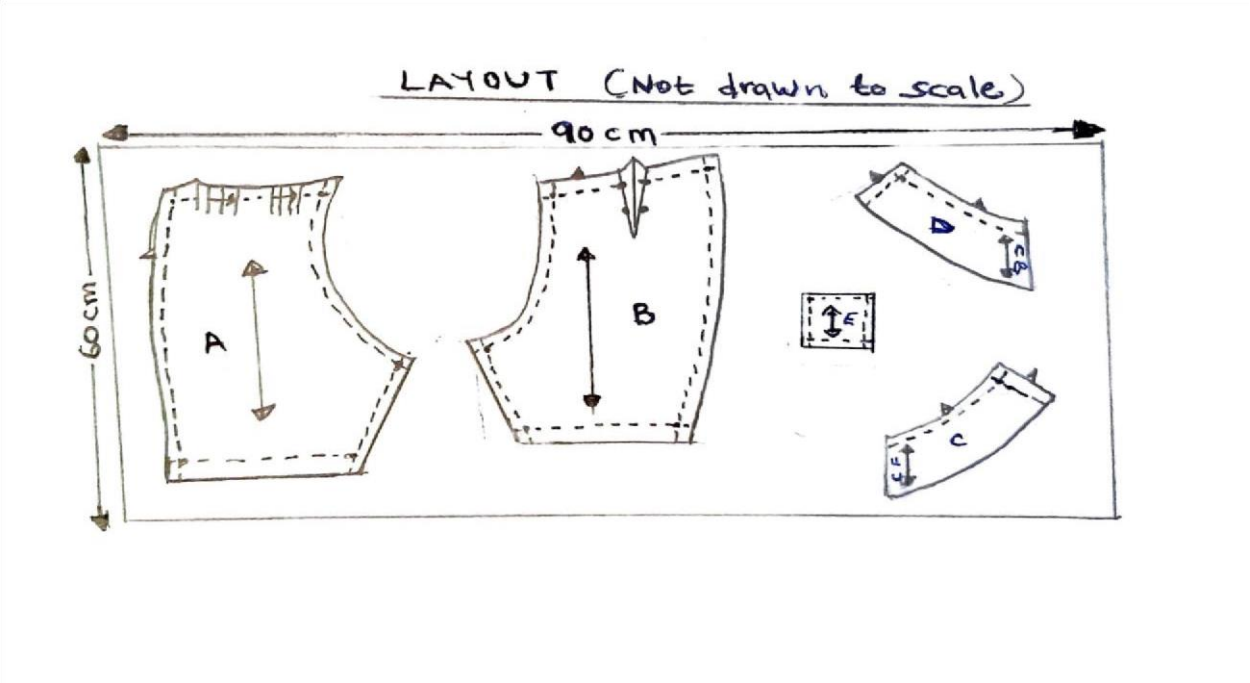
(h) Finishing the lower edge by slip hemming the front half and holding the back hem using even tacking stitches. **(12mks)**

(i)Overall presentation **(7mks)**

At the end of the examination, trim all hanging thread, press your work, and firmly sew onto your work, on single fabric, a label bearing your name and index number. Remove needles and pins from your work, fold your work neatly and place it in the envelope provided. Do not put scraps of fabric in the envelope, however any piece cut and not stitched should be included in the envelope.

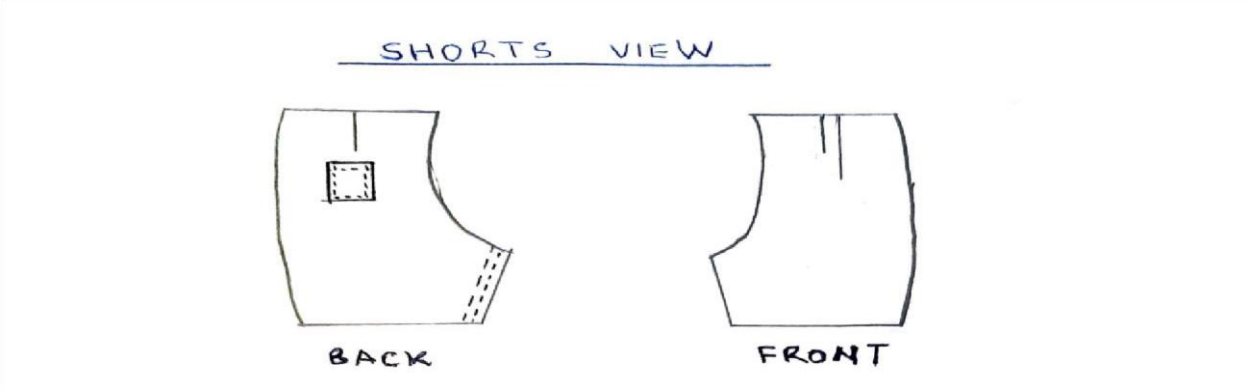
THE LAYOUT (NOT DRAWN TO SCALE)

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SHORT

FRONT AND BACK VIEW



THIS IS THE LAST PRINTED PAGE

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN: ……..… DATE: ……..

TERM 2

HOMESCIENCE (FOOD AND NUTRITION)

PAPER 3 (441/3)

FORM THREE (3)

PLANNING: 30 MINUTES

PRACTICAL TEST SESSION: 1 ¼ HOURS

TIME: 1 ¾ HOURS

INSTRUCTION TO CANDIDATES

1. Read the test carefully

2. Write your name and admission number on every sheet of paper used

3. Textbooks and recipes may be used during the planning session as reference materials

4. You will be expected to keep to your order of work during the practical session

5. You are allowed to take away ONLY your reference materials at the end of the planning session

6. You are not allowed to bring additional noted to the practical session.

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THE TEST

Your friend has slept over at your place. Using the ingredients listed below, prepare, cook and present a simple breakfast for the two of you.

INGREDIENTS

Bread

Milk

Eggs

Carrots

Tomatoes

Margarine

Lettuce

Fruit in season

Tea leaves/cocoa

Oil/Cooking fat

Sugar

Salt

PLANNING SESSION- 30 MINUTES

Use separate sheets of paper for each tasks listed below and a carbon paper to make duplicate copies. Then proceed as follows:

1. Identify the food items and write down their recipes.
2. Write down your order of work
3. Make a list of foodstuff, materials and equipment you will require.

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN: ……..… DATE: ……..

Term 2
ISLAMIC RELIGIOUS EDUCATION (314)
FORM THREE (3)
Time: 2 ½ 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) Explain why the Qur'an was not compiled during the prophet's time **(6mks)**

b) Describe the circumstances that led to revelation of *Suratul Nur* **(14mks)**

2. a) Explain the modes of wahyi **(8mks)**

b) Describe the characteristics of a *dhaif* hadith. **(6mks)**

c) Explain the importance tawheed to Muslims . **(6mks)**

3. a) State the different interpretations of the term *Imam* **(6mks)**

b) Discuss the sources of Islamic shariah. **(8mks)**

c)How did the prophets of Allah (swt) facilitate divine guidance **(6mks)**

4. a) State the contributions of *Imam Malik* to the development of *fiqh*. **(5mks)**

b) Explain **five** lessons a Muslim can learn from the life of prophet Ibrahim **(10mks)**

c) Explain the conditions of marriage in Islam **(5mks)**

5. a) Identify **six** achievements of Prophet Muhammad in Islam **(6mks)**

b) Mention the accusations that were made against caliph Uthman. **(7mks)**

c) Outline the contributions of Sheikh Said Qutub in Islam **(7mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN: ……..… DATE: ……..

314/2 - ISLAMIC - Paper 2

RELIGIOUS EDUCATION

2½hours

INSTRUCTIONS TO THE CANDIDATES:-

a) Write your name and index number on the answer sheets given

b) This paper consists of six questions.

c) Answer any five questions.

d) This paper consist of two printed pagers.

e) Candidates should check the paper to ascertain that all pages are printed and no questions are missing.

f) Candidates should answer the questions in English.

1. (a). Explain the rationale for the prohibition of lesbianism in Islam. **(10mks)**

(b) State the manners of eating according to Islam. **(5mks)**

(c) What are the effects of Kibr in the society. **(5mks)**

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2.(a) State the conditions for marriage. **(5mks)**

(b) State the rights of a girl child in Islam. **(8mks)**

(c) Identify reasons that may force a husband and wife to server their matrimonial relationship. **(7mks)**

3.(a) State the conditions of mirath. **(3mks)**

(b) Discuss five significance of the law of mirath. **(10mks)**

(c) Describe the Islamic teachings on co-existence with non-muslims. (**7mks)**

4.(a) Describe four methods used by Quraysh to persecute the early Muslims in Makkah. **(4mks)**

(b) list six accusations which were leveled against Caliph Uthman. **(6mks)**

(c) Discuss five measures put by the prophet to eradicated slavery. **(10mks)**

5.(a) Outline seven achievements of the Fatimids. **(7mks)**

(b) Discribe the influence of islam at the East Coast of Africa upto the 15th century**.** **(8mks)**

(c) What were the socio-political and economic contributions of khalif Umar bin Abdul Aziz in the history of islam. **(5mks)**

6.(a) Describe five lessons that a Muslim youth can learn from the life of Sheikh Abdallah Swaleh Farsy. **(10mks)**

(b) Enumerate five contributions made by Said Qutub to the development of Islam. **(5mks)**

(c) Identify five contributions of Ibn Sina to medicine. **(5mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES ONE EXAMS

JINA: ……

SHULE: ……

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

MUHULA WA PILI
102/1
KISWAHILI INSHA
KIDATO CHA TATU
KARATASI YA KWANZA
MUDA: SAA 1 ¾

MAAGIZO KWA MTAHINIWA:

1) Andika jina lako, nambari ya mtihani na tarehe katika karatasi ya majibu.

2) Karatasi hii ina maswali manne.

3) Jibu maswali mawili pekee.Kila swali lina alama 20.

4) Swali la kwanza ni la lazima. kisha chagua swali la pili kutoka miongoni mwa matatu yaliyosalia.

5) Majibu yote yaandikwe katika lugha ya Kiswahili.

SWALI	UPEO	ALAMA
1.	20	
2.	20	
3.	20	
4.	20	
JUMLA	40	

1.Wewe ni afisa wa Tume ya kukabiliana na ufisadi nchini. Umealikwa kuwahutubia wana funzi kuhusu athari za wizi wa mitihani kwa kizazi kijacho. Andika hotuba yako.

2.Fafanua hatua ambazo zinaweza kuchukuliwa nchini kukabiliana na umaskini .

3.Andika kisa kitachodhihirisha maana ya methali.
Ulimi huuma kuliko meno

4. Kamilisha tukio kwa maneno yafuatayo:

"….waliwasili saa tatu baadaye. Uharibifu wa mali na maisha ulikuwa umeshatendeka wala kufika kwao hakukusaidia kwa lolote."

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES ONE EXAMS

JINA: ……

SHULE: ……

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

MUHULA WA PILI

KIDATO CHA TATU

KARATASI YA PILI (102/2)

MUDA: MASAA MAWILI NA NUSU

MAAGIZO; JIBU MASWALI YOTE

SEHEMU YA A

UFAHAMU (alama 15)

Soma kifungu kifuatacho kisha ujibu maswali

Haikuwahi kunija akilini kuwa jambo kama hilo lingeweza kunikumba.Lilinipata kwa kasi sana.Nilididimia katika luja.Maisha yangu ya baadaye yalielekea kuingia giza kuu na kuniauni hakuwepo.

Nilikulia katika Kijiji cha Mwanda na wazazi wangu na mnuna wangu. Hatukuwa matajiri lakini hatukukosa mahitaji ya kimsingi. Wazazi wangu walinikumbusha kila mara nitie chudi masomoni ili angaa Maisha yangu ya mbeleni yawe mazuri kuliko yale niliyokulia.

Nilipojiunga na Shule ya Upili ya Kazana sikuwa na marafiki wengi. Nilianza vyema lakini nilipoingia kidato cha pili Maisha yangu yalichukua mkondo mwingine. Sikushiriki katika michezo yoyote au chama chochote cha wanafunzi. Nikuwepo tu! Hali hii iliniletea upweke mkuu nami nikatafuta jinsi ya kujaza ombwe hilo.

Nakumbuka likizo ya muhula wa pili vyema. Nilialikwa karamu na Rafiki yangu mmoja aliyeishi karibu na kwetu. Karamu yenyewe ilikuwa ya kusherehekea siku yake ya kuzaliwa. Karamuni, wengi walionekana kufahamiana na walipiga gumzo kwa uchangamfu. Vicheko vilihizinika katika gumzo yao.Mimi nilbaki na upweke wangu.

Baadha ya vyakula na vinywaji kwisha, muziki uliwekwa na vijana wakaanza kusakata densi. Mabanati wengi walinengua viuno nusura wakatike nyonga . Mvulana alinijia kujitambulisha kwa jina Todi. Alikuwa na maneno mengi kama chiriku.Alikuwa natafuna mairungi na mara kwa mara alikuwa akitia vidonge fulani na kuvitafuna . Anieleza kuwa vidonge hivyo vilikuwa vinampa uchangamfu wa ajabu.

“Je, ungetaka kuvijaribu”Aliniuliza.

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Kwanza nilidinda lakini akanishi na nikakubali. Alinipa vidonge viwili na chingamu. Niliifungua chingamu na nikaanza kuitafuna. Nikaweka kidonge cha kwanza mdomoni na nikatafuna vile vile. Hakikuwa na ladha chungu kama nilivyotarajia. Nikatia kidonge cha pili mdomoni nacho pia nikakitafuna.

Muda wa nusu saa uliisha nami nikaanza kuhoji ikiwa vidonge vilikuwa na athari yoyote. Fikira zile ni kama zilichochea vidonge hivyo kuanza kazi. Nilihisi kichwa change kikiwa chepesi. Mwanga wa taa uakaongezeka na utamu wa muziki ukakolea. Nilipenda jinsi nilivyohisi .Nilitamani kujihisi hivyo milele!

Uraibu wa kutumia dawa za kulevya ulianzia hapo.Nilivuta bangi , nikatumia kokeni na ketamine. Sikufikira nilikuwa katika hatari yoyote. Masomoni nilianza kushika mkia na kuchekwa na wnafunzi wengine. Nilijitafutia nafuu ya muda katika dawa za kulevya.

Jumapili moja nilialikwa na rafiki yule yule kwao. Wazazi wake walikuwa wamesafiri

Naye akaachwa nyuma ili alinde nyumba yao. Ilikuwa asubuhi na tuilkuwa na siku nzima ya kujitawala kwani wazai wake wangerudi jioni. Waama paka akiondoka panya hutawala.Tulikuwa na mihadarati ya aina aina; si heroini, si kokeni. Si bangi, si pombe; tulitaka kujaribu yote.Tulichanganya yote.

Sikumbuki yote yaliotokea.Nakumbuka tu nilitapika na baadaye nikapoteza fahamu. Nilisimuliwa baadaye kuwa wenye nyumba walirudi na kutupata tu hali mahututi; si wa maji si wa chakula. Waliita ambulensi na kutukimbiza hospitalini.Nilipopata fahamu nilijipata kitandani ndani ya chumba chenye kuta nyeupe .Wazazi wangu na mdogo wangu walikuwa wamesimama kando ya hicho na nyuso zao zilionyesha fazaa kuu. Ilikuwa wazi kuwa nilikuwa nimewasaliti upeo wa kusaliti. Machozi anilengalenga . Nilitamani ardhi ipasuke inimeze mzimamzima niondoke na aibu iliyonikabili.

Muuguzi aliingia na kuvunja kimya kilichotawala chumba kile.”Huyu na rafikiye waliponea chupuchupu ,”aliwaambia jamaa zangu. Aliongezea kuwa ikiwa nilithamini Maisha yangu sikuwa na budi kuepukana na matumizi ya dawa za kulevya.

MASWALI

a)Kwa nini msimulizi alkiumbwa na upweke alipojiunga na shule ya upili? **(alm3)**

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b)Eleza sifa moja ya msimulizi iliyomfanya ashawashike kuingilis mihadarati. **(alm1)**

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c) Eleza madhara yaliomkumba msimulizi katika matumizi ya dawa za kulevya. **(alm2)**

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d) Eleza sifa mbili za Todi. **(alm2)**

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e)Toa mifano miwili miwili ya mbinu zifuatazo kutoka kwenye ufahamu **(alm 4)**

i) Utohozi

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ii)tabaini

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f) Eleza maana ya maneno na mafungu yafuatayo kama yalivyotumika katika ufahamu **.** **(alm3)**

i) nitie chudi

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ii) tuja

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iii) fazaa kuu

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SEHEMU YA B-MUHTASARI(ALAMA 15)

Soma taarifa ifuatayo kisha ujibu maswali;

Ni dhahiri kwamba uharamia umechipuka kama desturi na mfumo wa maisha katika siku za hivi karibuni.Janga hili limeshamiri hususan pembeni mwa bara la Afrika na kanda za Affrika Mashariki .Taarifa za uharamia zimetawala vyombo vya habari , kiasi kwamba haipiti siku bila kuripotiwa visa vipya vya matendo haya mabovu ambayo yanaweza tu

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kumithilishwa na uhayawani.Matukio haya yamewalimbikizia mabaharia wa nchi husika , simanzi na masaibu yasioweza kutiwa mizani.

Yamkini tatizo hili halitokei pasi na kumotishwa na kitita kikubwa cha fidia kinachodaiwa na maharamia hawa.Aghalabu , suala hili lahusishwa pakubwa na azma na ari ya kuendeleza ujambazi wa kimataifa sawia na ulipuaji wa bomu mjini Nairobi na Dar-es-saalm mnamo Agosti 7,1998 na tukio la Septemba 11. Mwaka wa 2001 kule Marekani.Maafa na uharibifu wa mali si hoja , la mno kwa maharamia ni kutosheleza matakwa yao. Kwa upande mwingine, ukosefu wa tawala-wajibika katika maeneo kunatokea unyama huu ni thibitisho tosha la mazingira yanayowezeha na kuruhusu kuchipuka wa janga hili.

Mchipuko wa baa la uharamia umelengewa jamii ya kimataifa ambayo ni mhdumu mkuu wa harakati za kusitisha majanga makubwa kama vile njaa, umaskini na magonjwa yaliosheheni pakubwa barani.Bila shaka , hili suala linalosawisishwa na 'kinyume mbele'.Maharamia wanatishia utangamano wa kimataifa wanapotibua usafiri wa abiria na shehena zinazoelekezwa sehemu tofauti ulmwenguni.

Matumizi ya kidiplomasia na mashauriano hayaelekei kuzalisha matunda katika juhudi za kudhibiti uharamia. Zaidi ya hayo , matumiz a nguvu yahusishayo mashambulizi pamoja na maharamia kufunguliwa mashtaka nchini Kenya na Ufaransa kunaelekea kuzipiga jeki juhudi za uharamia ulimwenguni. Aidha, utawala wan chi kunapochipuka uharamia haujajizatiti kuharamia doa hili linalotisha ustawi wa kimataifa.

Mathalan, ni jambo lisilopingika inapobainika kuwa uharamia umedumaza biashara ya kimataifa hali inayochangia upungufu na ucheleweshaji wa bidhaa muhimu zinazoendeleza ustawi wa uchumi. Dosari hii inaelekea kukwamiza mojawapo wa maendeleo ya milenia yanayosisitiza uimarishaji na ushirikiano wa maendeleo na upanuzi wa masoko ulimwnguni.Harakati za kikatili katika kanda mashariki ya bara Afrika zimejuhumiwa.Ni muhali kuwa utalii kustawi kwenye maeneo yalio na tishio la usalama. Itakumbukwa bayana kwamba watalii hawasafiri tu kwa ndege bali hata kwa meli.

Jitihada za kuweka laini za mawasiliano chini ya bahari ili kurahisha na kupunguza gharama za mtandao ulimwenguni ni ndoto ambayo haijatimia hadi hivi sasa, kufuata juhudi za maharamia katika Bahari Hindi. Kwa mujibu wa hali hii , mawasiliano mepesi na nafuu yasitarajiwe hivi karibuni.Licha ya hayo , shughuli za uvuvi na biashara nnyinginezo kwenye kanda ya mwambao zimetiliwa shaka si haba.

Itabidi mikakati kabambe na suluhisho la kudumu liweze kupatikana ili vitendo vya uharamia viweze kusitishwa.

a) Fupisha aya mbili za kwanza kwa maneno 50**.** **(alm6)**

Matayarisho

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Nakala safi

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b) Onyesha jinsi ambavyo Kenya imeathiriwa na uharamia na namna hali hii iantia hofu kwa maneno 50. **(alm5)**

Matayarisho

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Nakala safi

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c) Fupisha aya mbili za mwisho kwa maneno 40. **(alm4)**

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SEHEMU YA C;

SARUFI NA MATUMIZI YA LUGHA(ALAMA 40)

a) Andika maneno yoyote yanayoanza na kwa sauti zifuatazo; **(alm2)**

i) Kitambaza na irabu ya chini **…….**

ii) Kizuiwa ghuna cha masine na kiwamizo hafifu cha koromeo **…….**

iii) Kiyeyusho cha mdomo na irabu ya nyuma wastani **……**

iv) Kimadende na irabu ya mbele juu **……**

b) Tambua kiimbo; Tafadhli niazime kalamu yako kwa muda**.** **(alm2)**

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c) Andika maneno yalio na miundo ifuatayo; **(alm 2)**

i) Kiambishi cha umoja , mzizi, kiishio –o

……

……

ii) kirejeshi cha umoja , kiambishi cha mahali

……

……

d) Unganisha sentensi zifutazo ili uweze kuunda sentensi ya masharti;(alama 2)

Wanasayansi watatabiri mapema.

Wanasayansi watafaulu kuondoa majanga

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e) Tunga sentensi kwa kutumia nomino kama kivumishi **(alm2)**

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f) Andika sentensi inayoanza kwa kiima na kumalizika kwa kijalizo. **(alm2)**

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g) Badilisha shamirisho kitondo kuwa shamirisha kipozi katika sentensi uliopewa. **(alm2)**

Mtoto wa Juma amefundishwa virai kwa kutungiwa sentensi za virai.

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h) Tunga sentensi yenye kirai nomino, kirai kitenzi na kirai kielezi **(alm3)**

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i) Andika katika hali ya ukubwa;Mtoto huyu amevaa kiatu kikubwa. **(alm3)**

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j) Kanusha;Mama hucheka sana akifurahi**.** **(alm1)**

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k) Akifisha;jichunge akasema musa msimamo wako huenda ukakuathiri sana**.** **(alm2)**

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l) Changanua kwa njia ya mshale; **(alm4)**

Juma alichoka sana alipokuwa akifanya mazoezi jana jioni.

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m) Tunga sentensi mbili kudhihirisha maana mbili za neno katia**.** **(alm4)**

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n) Andika vinyume vya maneno yaliopigiwa mstari;

Mwanafunzi **<u>jasiri hujitahidi</u>** katika masomo yake**.** **(alm2)**

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……

o) Ainisha vishazi katika sentensi ifuatayo; **(alm2)**

Kila darasa likipunguza kiwango cha kelele idadi ya wanafunzi wanaofaulu wataongezeka.

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p) Kwa kutolea mfano katika sentensi elezea matumizi mawili ya kiambishi -ki**.** **(alm2)**

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……

q) Onyesha uamilifu wa viambishi katika neno lifuatalo;Walilana **(alm2)**

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r) Tofautisha aina mbili za mofimu**.** **(alm2)**

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SEHEMU YA D-ISIMU JAMII(ALAMA 10)

Eleza sifa kumi za lugha utakayotumia ukipata nafasi ya kutangaza mchaezo wa kandanda**.** **(alm10)**

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES ONE EXAMS

JINA: ……

SHULE: ……

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

MUHULA WA PILI
KISWAHILI
KIDATO CHA TATU

KARATASI YA TATU- FASIHI(102/3)

MUDA: SAA 2:30

MAAGIZO;

a) Swali la kwanza ni la lazima
b) Usijibu maswali mawili kutoka sehemu moja
c) Jibu jumla ya maswali manne
d) Kila swali ni alama 20
e) Tumia lugha ya Kiswahili

SEHEMU YA A.(alama 20)
Swali la lazima;

Soma shairi lifuatalo kisha ujibu maswali

Sidanganyiki kwa hotuba , na mahubiri matupu
Hasa wanaokula riba , wanaojaza vikapu
Nimeamka.

Nawambia wahubiri, wanaowadanganya watu
Moyo umejaa ari, sizunguki tena katu
Nimeamka.

Ni macho nimeamka, jicho linaona mbali
Kwa kila linalozuka , linalo yake asili
Nimeamka.

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Linapenya langu jicho, liangazapo dosari
Huyaibua maficho, ya wale wenye viburi
Nimeamka.

Hupima yao maneno , na vitendo vya kadiri
Wale walao mavuno, hunikoroga suduri
Nimeamka.

Maswali;

a)Eleza tasnia ya shairi hili. **(alm2)**

b) Tambua bahari ya shairi hili kwa kuzingatia;

i) vina
ii) mishororo
iii) mizani **(alm6)**

c) Ujumbe upi unaojitokeza katika shairi hili. **(alm6)**

d) Tambua aina za urudiaji na dhima yake katika shairi. **(alm2)**
e) Andika ubeti wa kwanza kwa lugha ya tutumbi. **(alm3)**

f) Shairi hili ni la mkondo upi? (**alm1)**

SEHEMU YA B; TAMHILIA YA BEMBEA YA MAISHA

Jibu swali la 2 au la 3

2. Tambua mandhari yoyote manne na umuhimu wake katika Tamthilia hii. **(alm20)**

AU

3.”Eti la alama! My foot! Eti ameshuka nafasi darasani lakini anapandisha alama…”

a) Weka dondoo hili katika muktadha wake. **(alm4)**
b) Eleza maudhui yanayojitokeza katika dondoo hili**.** **(alm2)**
c) Jadili sifa sita za mnenaji**.** **(alm6)**
d) Tathmini umuhimu wa mneneji katika Tamthilia**.** **(alm8)**

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SEHEMU YA C: HADITHI FUPI-MAPAMBAZUKO YA MACHWEO.

Jibu la 4 au 5.

4. Fafanua ufaafu wa anwahi Fadhila za Punda**.** **(alm20)**

AU

5. Mwandishi katika hadithi ***Mwiba wa kujitakia*** alifaulu kutumia mbinu ya uwili.Thibitisha ukweli wa kauli hii. (**alm20)**

SEHEMU YA D: RIWAYA YA NGUU ZA JADI

6. "Binadamu ni viumbe wasiojali". Eleza ukirejelea riwaya ya Nguu a Jadi. **(al.20)**

7. *"Tangu lini mke amuulize mumewe kule aendako au atokako?. ..Ama kweli, wanawake wa kisasa wanavunja kila mwiko uliowekwa na wazee."*

a) Yaweke maneno haya katika **muktadha** wake. **(alm4)**

b) Kwa kutoa mfano,**taja mbinu ya lugha** iliyotumika. **(alm2)**

c) Eleza **umuhimu wa msemaji** **(alm4)**

d) Kwa kutoa mifano **kumi** kutoka riwayani, fafanua jinsi **mwanamke amesawiriwa** katika jamii ya Matuo. **(al10)**

SEHEMU YA E-FASIHI SIMULIZI-(ALAMA 20)

8.a) Wewe ni mwigizaji wa michezo ya jukwaani. Eleza mambo sita utazingatia ili kufanikisha uigizaji wako**.** **(alm6)**

b)Mbinu ya uigizaji sauti ina umuhimu gani? **(alm4)**

c)Soma kifungu hiki kisha ujibu maswali

Hamkuona jinsi tulivyowapiga magoli
Hamkuona vile tuliwala chenga kila mara
Itakuaje timu mbovu kama hii
Kuchezea miamba kama sisi
Niliwafunga baada ya sekunde wakati ule nitashindwaje leo?

i) Tambua aina ya lipera hiki na utoe ithibati**.** **(alm2)**

ii) Fafanua umuhimu wa kipera cha Fashi ulichotambua katika sehemu ya (a). **(alm8)**

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN: ……..… DATE: ……..

Term 2
MATHEMATICS (121/1)
PAPER 1
FORM THREE (3)
Time: 2 ½ Hours

INSTRUCTIONS TO CANDIDATES

- Write your name and Admission number in the spaces provided at the top of this page.
- This paper consists of two sections: Section I and Section II.
- Answer ***ALL*** questions from section I and ***ANY FIVE*** from section II
- All answers and workings must be written on the question paper in the spaces provided below each question.
- Show all the steps in your calculation, giving your answer at each stage in the spaces below each question.
- Non – Programmable silent electronic calculators and KNEC mathematical tables may be used,except where stated otherwise.

FOR EXAMINERS USE ONLY

SECTION I

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

SECTION II

17	18	19	20	21	22	23	24	TOTAL

GRAND TOTAL

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SECTION I (50 MARKS)

1. Without using tables, evaluate $\frac{\mathbf{0.51x5700}}{\mathbf{6.8x0.0095}}$ giving the answer in standard form. **(3mks)**

2. Find the value of t in the following equation $\mathbf{81^{-1}} \times \left(\frac{\mathbf{1}}{\mathbf{27}}\right)^{\boldsymbol{t}} = \frac{\mathbf{1}}{\mathbf{243^{-1}}}$ **(3mks)**

3. Simplify the expression **(3mks)**

$$\frac{\times^{\mathbf{2}} - \mathbf{9}\boldsymbol{y}^{\mathbf{2}}}{\mathbf{2}\boldsymbol{x}^{\mathbf{2}} - \ \mathbf{7}\times\boldsymbol{y} + \mathbf{3}\boldsymbol{y}^{\mathbf{2}}}$$

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4. Evaluate using tables of reciprocals and cubes only expressing your answer to 4 significant figures

$$\frac{4}{0.2356} + (0.9873)^3$$ **(3mks)**

5. Simplify; $\dfrac{\frac{2}{3} \text{ of } 5\frac{2}{5} - 2\frac{3}{10}}{\frac{3}{5} \div 4\frac{1}{2} + 1\frac{3}{5}}$ **(3mks)**

6. Find the equation of a line which passes through the point (2, 3) and is perpendicular to $y = 3x - 1$, giving your answer in the double intercepts form. **(3mks)**

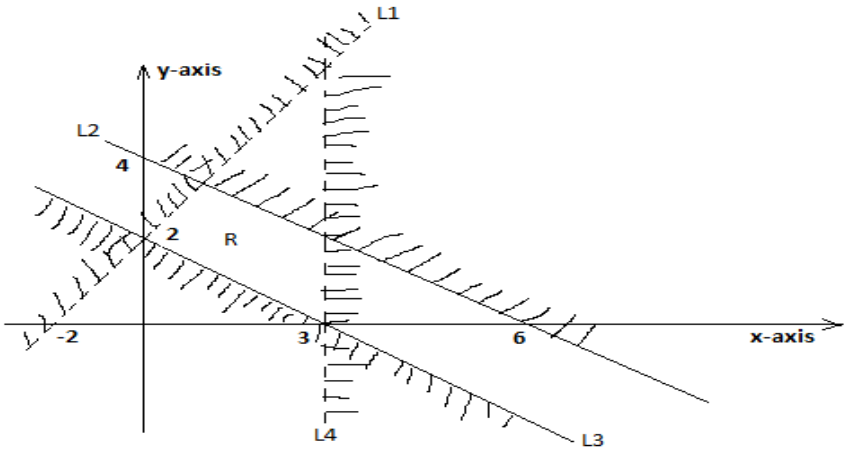
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7. George received 10,000 Euros from his brother who stays in France. He sent to his sister who stays in Japan 10,000 Yen. In addition George bought a car worth sh.200,000. Exchange rates :

	Buying	**Selling**
1 Euro	73.4226	73.52953
100 Japanese yen	62.8011	62.8822

How much was left. **(3mks).**

8. Write down four inequalities which fully describe the unshaded region R in the figure S Below. **(4mks)**



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9. A line PQ = 12.5cm. By using another line, divide PQ into nine equal parts. **(3mks)**

10. A boy walk directly from point Q towards the foot of a vertical flag post 200m away. After conveying a distance of 140m, he observes the angle of elevation of the top of the flag post is 75°. Calculate the angle of depression of point Q from the top of the flag post. **(3mks)**

11. Two similar blocks have masses of 729g and 216g respectively. If the surface area of the smaller block is $300cm^2$, calculate the surface area of the larger block. **(3mks)**

12. Solve for **y** given that **y** is acute and $\sin(3y - 50^0) - \cos(2y + 10^0) = 0$ **(3mks)**

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13. Kassim has a money box containing 100 mixed shs 5 and shs 10 coins with a total value of shs 600. How many of each type of coin does the box contain. **(3mks)**

14. Without using a calculator evaluate:

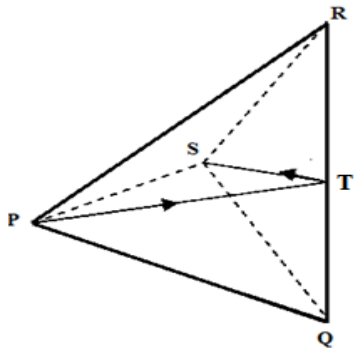
$$\frac{-2(5+3)-9\div 3+5}{-3+-16\div -8\times 4}$$

(3mks)

15. A solid block in the shape of a cylinder has a height of 14cm and weighs 22kg. If it is made of material of density $5g/cm^3$, find the radius of the cylinder. Take $\pi=\frac{22}{7}$ **(3mks)**

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16. The figure below shows a regular tetrahedron PQRS of edges 4cm. Draw its net and measure the length of the straight path of PS through the midpoint T over the edge QR. **(3mks)**



SECTION II (50 MARKS)

(Answer ANY FIVE questions in the spaces provided)

17. Complete the table below for the equation $y=2x^2+2x-8$ by filling the blank space. **(2mks)**

x	-5	-4	-3	-2	-1	0	1	2	3	4
y	**32**			**-4**		**-8**			**16**	

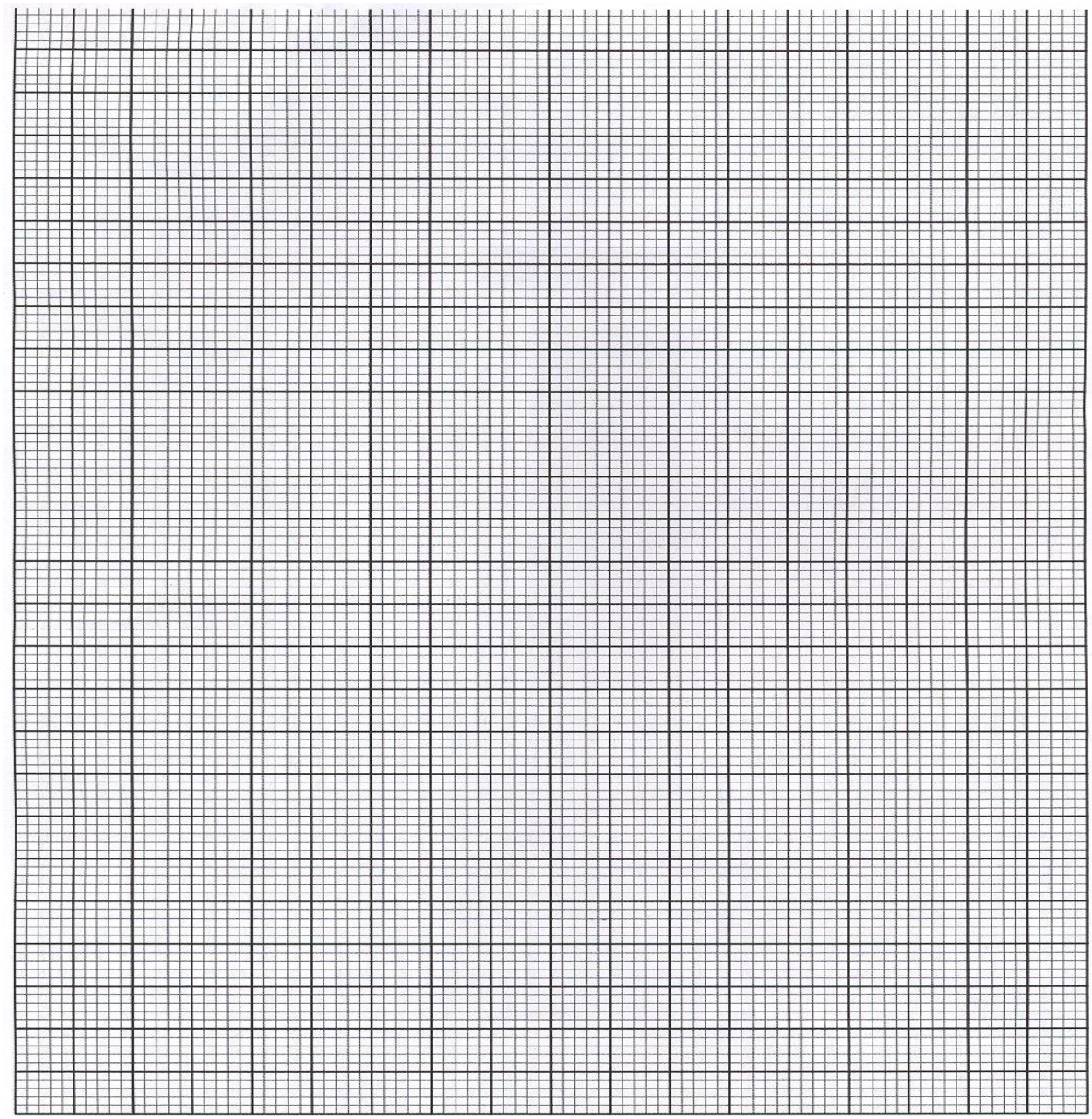
a). On the graph provided below, plot the graph of $y=2x^2+2x-8$. **(4mks)**
(use the scale: y-axis=1unit, x-axis=1unit)

b) Use your graph to solve:

i) $2x^2+2x-8=0$ **(1mk)**

ii) $2x^2+x+2=0$ **(3mks)**

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18. A bus left Kisumu at 9.30 am towards Nairobi at an average speed of 81km/hr. A matatu left Nairobi for Kisumu at 10.10 a.m at an average speed of 72km/hr. The distance between Kisumu and Nairobi is 360km. Determine:

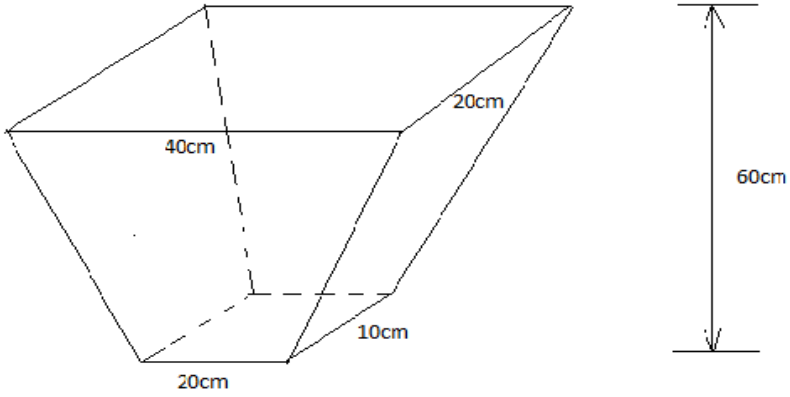
(i) The time taken before the two vehicles met. **(4mks)**

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(ii) The distance between two vehicles 40 minutes after meeting. **(3mks)**

(iii) A car left Kisumu towards Nairobi at 9.50am at an average speed of 90km/hr. Determine the time the car caught up with the bus. **(3mks)**

19. The Figure shows a frustum of a right pyramid open container for storing water.



Calculate:

a) The height of the pyramid from which the frustum was cut from. **(2mks)**

b) The surface area of the frustum **(4mks)**

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c) The capacity of the frustum in litres **(4mks)**

20. The table below represent marks in percentage scored by 50 students in a class

Marks	Frequency
40-44	6
45-49	4
50-54	7
55-59	6
60-64	12
65-69	4
70-74	5
79-79	3
80-84	3

a) State the modal class **(1mk)**

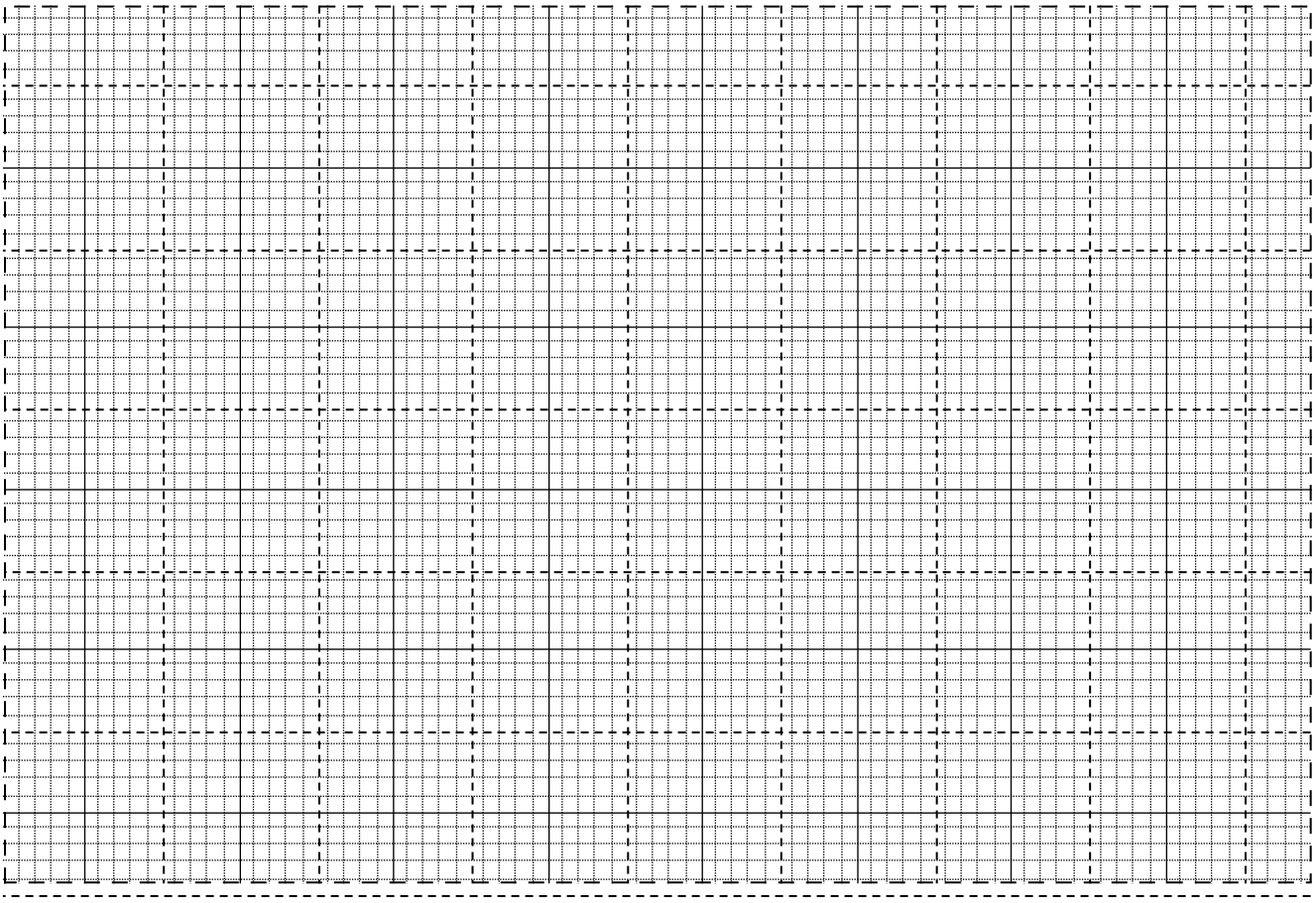
b) Estimate:

i.The mean mark **(2mks)**

ii. The median **(3mks)**

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c) On the grid provided draw a frequency polygon to represent the above information. **(4mks)**



21. Given that the column vectors

$$\underset{\sim}{p} = \begin{pmatrix} -3 \\ 4 \end{pmatrix}, \underset{\sim}{q} = \begin{pmatrix} 16 \\ -4 \end{pmatrix}, \underset{\sim}{r} = \begin{pmatrix} 9 \\ 6 \end{pmatrix} and\ that\ \underset{\sim}{a} = 2\underset{\sim}{p} - \frac{3}{4}\underset{\sim}{q} + \frac{2}{3}\underset{\sim}{r}$$

Express as a column vector and hence calculate its magnitude **(4mks)**

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b) Given that the midpoints of PQ is (-3,1) and Q (7,5), obtain the co-ordinates of P. **(3mks)**

c) A translation $T\begin{pmatrix}2\\1\end{pmatrix}$. maps triangle ABC onto triangle $A^1B^1C^1$. Given the co-ordinates A(2,3) , B(2,5) and C(4,4). Find the co-ordinates of A^1B^1 and C^1. **(3mks)**

22. The coordinates of triangle ABC are A(1, 1), B(3, 1) and C(1, 3).

(a) Plot the triangle ABC. **(1mk)**

(b) Triangle ABC undergoes a translation vector $\begin{pmatrix}2\\2\end{pmatrix}$. Obtain the image of A'B'C' under the transformation, write the coordinates of A'B'C. **(2mks)**

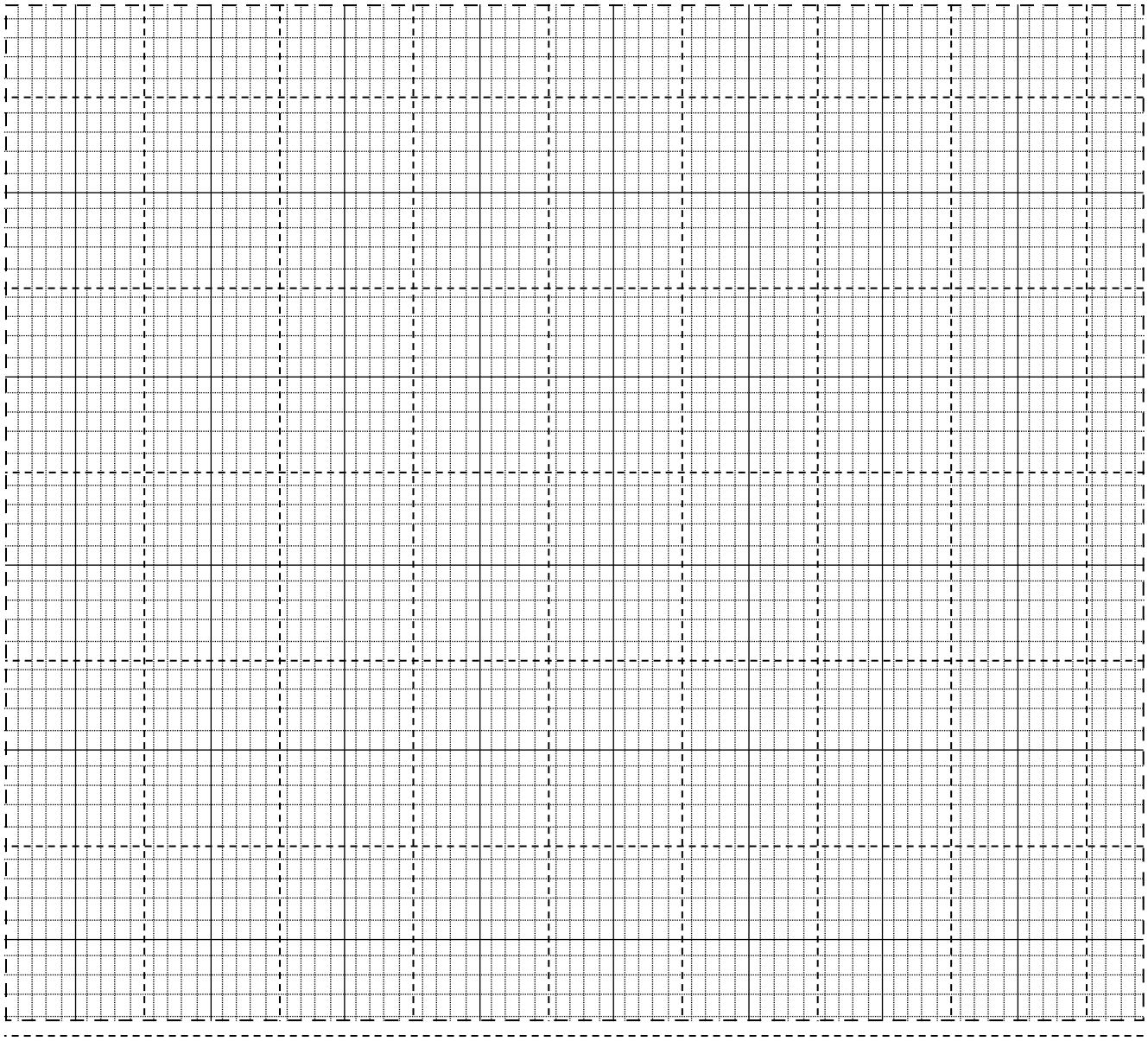
(c) A'B'C undergoes a reflection along the line X=0, obtain the coordinates and plot on the graph points A"B"C" under the transformation. **(2mks)**

(d) The triangle A"B"C" undergoes an enlargement scale factor -1, centre origin. Obtain the coordinates of the image A"'B"'C"'. **(2mks)**

(e) The triangle A"'B"'C"' undergoes a rotation centre (1, -2) angle 120^0. Obtain the coordinates of the image A"B"C". **(2mks)**

(f) Which triangles are directly congruent? **(1mk)**

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23. A pilot intends to fly from A to D through B and C, B is 750km from A and on a bearing of N50°$E. C$ $is\ on\ a\ bearing\ of$ N 40° W from B and their distance apart is 600km. D is on a bearing of S 85° W from C and at a distance of 1050km.

a) Using the scale of 1cm for 100km, show the flight route. **(4mks)**

b) If the pilot on its way back decides to fly directly from D to A;

i) By use of compass bearing find the direction of A from D. **(1mk)**

ii) Find the distance from D to A in kilometers. **(1mk)**

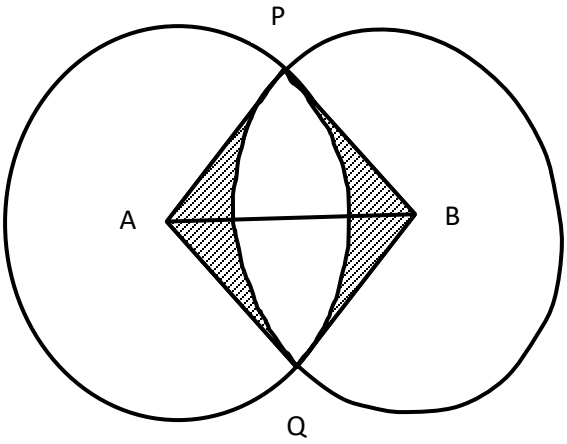
c) The plane flies at 500km/h. If it leaves D at 9.00a.m at what time did it arrive at A. **(2mks)**

d) i) Using your diagram in (a) above, (i) find the distance between A and C **(1mk)**

ii) Find the compass bearing of A from point C **(1mk)**

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24. In the figure below A and B are centres of the circle intersecting at point P and Q. Angle PBQ = 97.2^0 while PAQ = 52^0. PB = 4cm while AP = 10 cm.



Determine;

a) The length of AB **(3mks)**

b) The area of the sector APQ **(2mks)**

c) The area of the quadrilateral APBQ **(3mks)**

d) Area of the shaded region **(2mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN: ……..… DATE: ……..

Term 2
MATHEMATICS (121/2)
PAPER 2
FORM THREE (3)
Time: 2 ½ Hours

Instructions

1. Write your **Name, Admission Number** and **Class** in the spaces provided.
2. This paper contains **Section I** and **II.**
3. Attempt ALL questions in Section I and any **FIVE** in **Section II.**
4. Show all your workings in the spaces provided below each question.
5. Marks may be given for correct working even if the answer is wrong.
6. Use **Electronic Calculator** and **Mathematical Tables** where possible.
7. Candidates must check the question paper to ascertain that no pages are missing.

SECTION I

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

SECTION II

17	18	19	20	21	22	23	24	TOTAL

GRAND TOTAL

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SECTION I

Answer all questions

1. Make x the subject in $y = \left(\frac{ax^2+b}{bx^2-9}\right)^{1/3}$. **(3mks)**

2. Using logarithms evaluate. $\left(\frac{0.07292 \times 492.9}{82.9}\right)^{1/3}$ **(4mks)**

3. Solve the following linear inequalities and list the integral values of x. **(3mks)**

$\frac{1}{3}x + 7 \geq -2x$

$0.5x + 4 > 1.5x$

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4. Simplify $\frac{3}{\sqrt{7}-2} - \frac{5}{\sqrt{7}+2}$. **(3mks)**

5. Find the value of k if $4x^2 + 9x + 2 + k$ is a perfect square. **(3mks)**

6. The cash price of a music system is kshs. 30,000. It can be bought under hire purchase terms by paying a deposit of kshs. 10,000 and twelve monthly installments of Kshs. 3,200 per month. Determine the percentage rate of interest per month. **(3mks)**

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7. Expand and simplify $(2-x)^6$ hence using the first 4 terms, evaluate $(1.98)^6$. **(4mks)**

8. Solve for x in $\log(2x+4)-\log(x-1)=3\log 2$ **(3mks)**

9. $A=\begin{pmatrix}3 & 4\\ 1 & 2\end{pmatrix}$ $B=\begin{pmatrix}2 & 4\\ 6 & 8\end{pmatrix}$ Find C if $C=A^{-1}B$. **(4mks)**

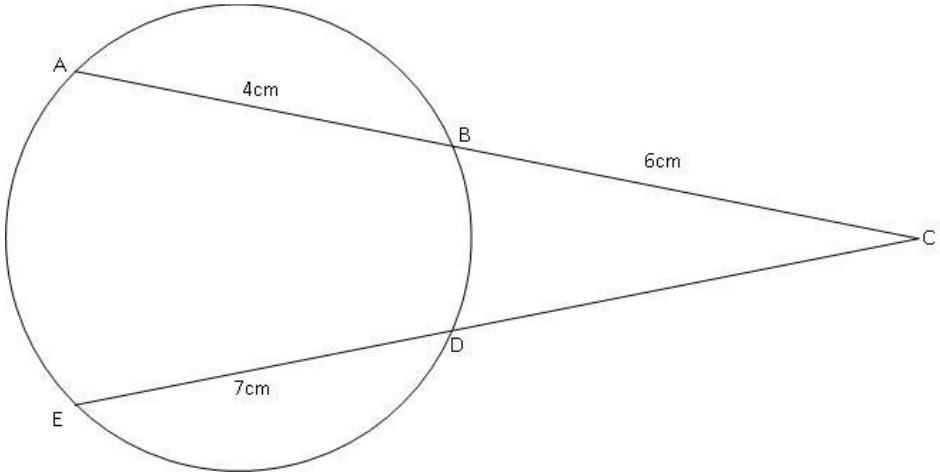
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10. Find the percentage error in estimating the volume of a cuboid whose dimensions are 8.2cm by 6.4cm by 5.3cm. **(3mks)**

11. A varies partly as the square of R and partly as a constant.
When A= 23, R=3. When A is 55, R=5. Find A when R = 7. **(3mks)**

12. $OA = 2i + 3j + 4k \quad OB = 4i - 3j - 2k$
P divides AB internally in the ratio $2:1$. Find the coordinates of R. **(3mks)**

13. In the figure below AB = 4cm, BC=6cm, ED = 7cm. Find the length DC. **(3mks)**



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14. The average of the first and fourth terms of a GP is 185. Given that the first term is 27, find the common ratio. **(3mks)**

15. The equation $3x^2 - 8px + 12 = 0$ has real roots. Find the value of P. **(3mks)**

16. Solve for x in the equation. $2cos\ (3x + 60°) = \sqrt{3}$ for $0 \leq x \leq 180°$. **(4mks)**

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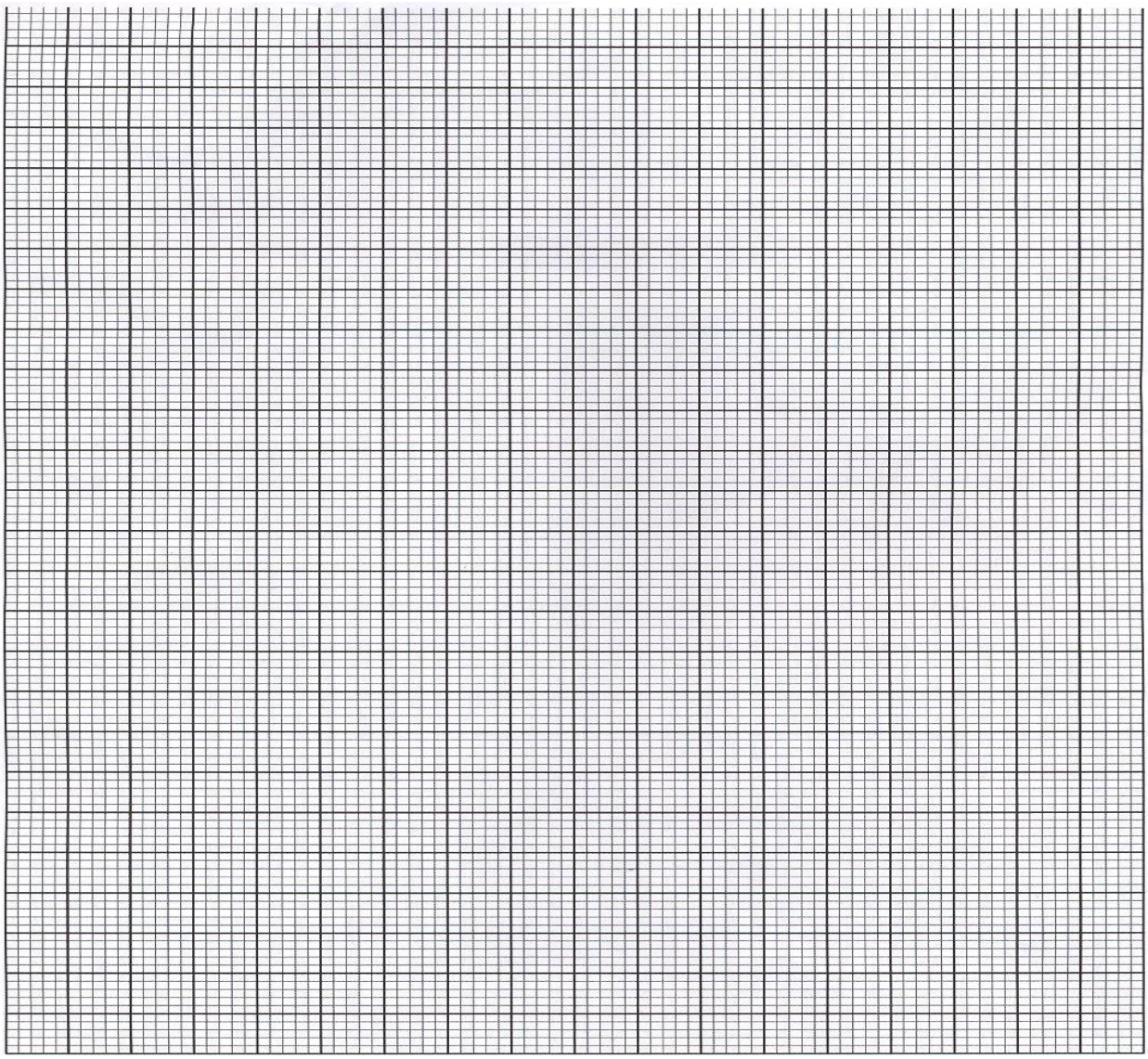
SECTION II

Answer any five questions in this Section

17. Complete the table below for the equation $y=2x^2+2x-8$ by filling the blank space. **(2mks)**

X	-5	-4	-3	-2	-1	0	1	2	3	4
Y	**32**			**-4**		**-8**			**16**	

a). On the graph provided below, plot the graph of $y=2x^2+2x-8$. **(4mks)**
(use the scale: y-axis=1unit, x-axis=1unit)



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b) Use your graph to solve:

i) $2x^2+2x-8=0$ **(1mk)**

ii) $2x^2+x+2=0$ **(3mks)**

18. a) Find A^{-1}, the inverse of matrix A = $\begin{pmatrix} 6 & 5 \\ 4 & 7 \end{pmatrix}$ **(2mks)**

b) Ibanda sells white and brown loaves of bread in his kiosk. On a certain day he sold 6 white loaves of bread and 5 brown ones for a total of Kshs. 520. The next day he sold 4 white loaves and 7 brown ones for a total of Kshs. 530.

i. Form a matrix equation to represent the above information. **(1mk)**

ii. Use matrix method to find the price of a white loaf of bread and that of a brown loaf of bread. **(3mks)**

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c) A school canteen bought 240 white loaves of bread and 100 brown loaves of bread. A discount of 10% was allowed on each white loaf whereas a discount of 13% was allowed on each brown loaf of bread. Calculate the percentage discount on the cost of all the loaves of bread bought. **(4mks)**

19. Income tax for all income earned by Joyce were taxed as follows.

Income per month in Kshs.			Rate in Kshs. per K£
1	-	8,100	2
8,101	-	16,200	3
16,201	-	24,300	4
24,301	-	32,400	5
32,401	-	40,500	6
40,501	and above		7

Joyce earns a basic salary of Kshs.38,400 per month. She gets monthly house allowance of Kshs.12,600, and medical allowance of shs.2,400. She is entitled to a personal relief of Kshs.1,160 pm. Her deductions per month includes NHIF shs.840, NSSF Kshs.1,720 and cooperative loan of shs.4,780. Determine:-

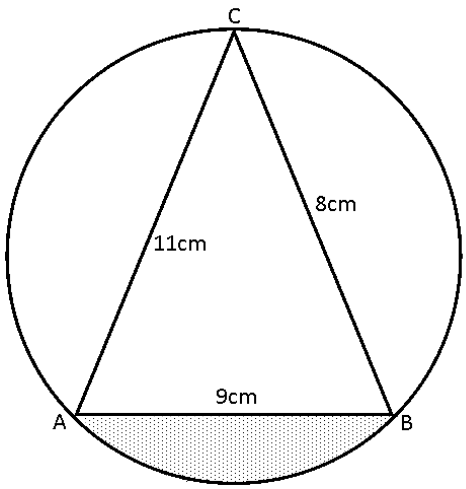
(a) The taxable income per month in Kenya Shillings. **(2mks)**

(b) The net tax p.m. in Kenya Shillings. **(5mks)**

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(c) The net earnings per month in Kenya Shillings. **(3mks)**

20. The figure below shows a triangle ABC which is circumscribed.
AB = 9cm, BC = 8cm, and AC = 11cm.



By leaving your answer to 1 decimal place, determine,

(a) The area of triangle ABC. **(3mks)**

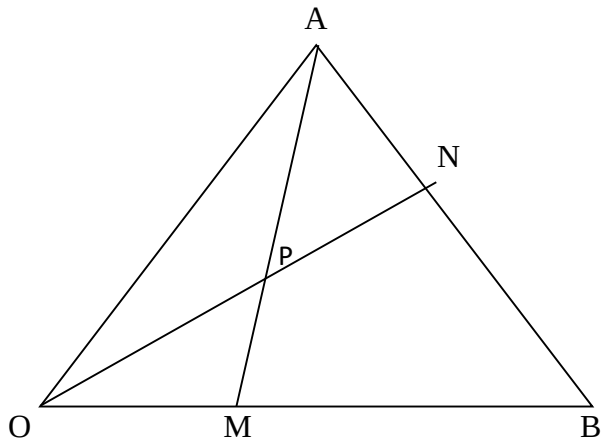
(b) The size of angle ACB. **(2mks)**

(c) The radius of the circle. **(2mks)**

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(d) The area of mirror segment AB. **(3mks)**

21. The figure below shows triangle OAB in which **OA =a** and **OB=b**. M and N are points on OB and AB respectively such that **OM**=$\frac{1}{3}$**OB** and 5**AN**=2**AB**. Lines AM and ON meets at P such that **OP** =$\frac{5}{9}$ **ON**.



(a) Express the following vectors in terms of a and b

(i) $\overline{AB}$ **(1mk)**

(ii) $\overline{ON}$ **(2mks)**

(iii) $\overline{AM}$ **(1mk)**

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(b) Express $\overline{AP}$ and $\overline{PM}$ in terms of ***a*** and ***b*** and hence show the points A, P and M are collinear **(5mks)**

(c) State the ratio AP: PM **(1mk)**

22. (a) The 18^{th} term of an arithmetic progression is 59. The sum of the 7^{th} and 11^{th} term of the arithmetic progression is 58. Find:-

(i) The first term and common difference. **(3mks)**

(ii) The sum of the first 50 terms of the arithmetic progression. **(2mks)**

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(b) The Basic Salary per month of John during first month of employment is kshs.32,400. His salary is increased by 4% at the end of each year. If he was employed on 1st Jan, 2002.

Find:-

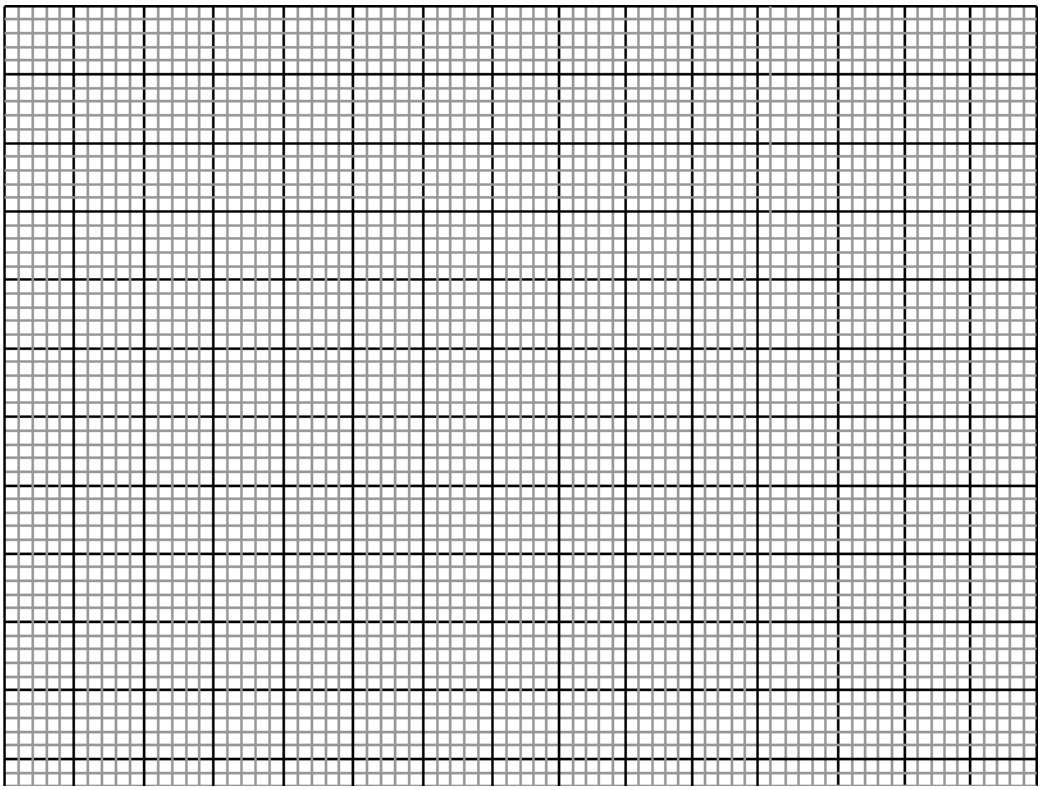
(a) His monthly earnings during the month of August 2014 if his incremental date is the month of January each year.

(b) His total earnings by 31st December, 2014. **(3mks)**

23. (a) Complete the table below for $y = 2\ Sin\ 2x\ \ and\ y = 3\ Cos\ x$. **(2mks)**

x	**0**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**	**330**	**360**
$2\ Sin\ 2x$		**1.73**	**1.73**					**-1.73**	**-1.73**	**0**			
$3\ Cos\ x$	**3**			**0**			**-3**					**2.60**	**3**

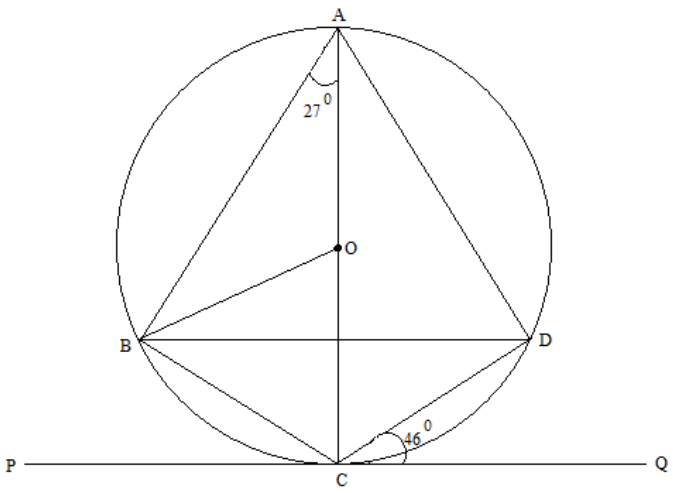
(b) Draw the graph $y = 2\ Sin\ 2x\ \ and\ 3\ Cos\ x$ on the same grid. **(6mks)**



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(c) Using your graph solve $2\ Sin\ 2x - 3\ Cos\ x = 0$ **(2mks)**

24. The diagram below shows a circle centre O. PQ is the tangent to the circle at C. Angle DCQ= 46^0 and angle BAC=27^0.



Find giving reasons the size of each of the following angles.

a) Angle OAD. **(2mks)**

b) Angle DBO. **(2mks)**

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c) Angle ACD. **(2mks)**

d) Angle BDA. **(2mks)**

e) Reflex angle BOC. **(2mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN: ……..… DATE: ……..

Term 2
PHYSICS (232/1)
FORM THREE (3)
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.
- You may use 'g' as $10m/s^2$

For Examiner use only

SECTION	QUESTION	MAX MARKS	ANDIDATE'S SCO
A	1 – 13	25	
	14	13	
	15	14	
	16	12	
	17	10	
	18	06	
	TOTAL	80	

SECTION A (25 MARKS)

1. The diagram below shows a micrometer screw gauge used by a student to measure the thickness of a wire. If it has a zero error of 0.06mm, determine the actual thickness of the wire? **(2mks)**

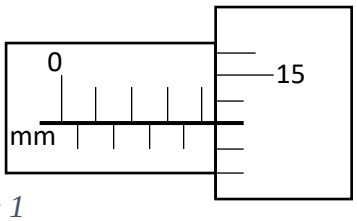


Figure 1

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2. Give a reason why a thick glass bottle cracks when boiling hot water is suddenly poured inside it **(1mk)**

……

……

……

3. Give a reason why water is not a suitable liquid for use in a barometer **(1mk)**

……

……

……

4. State and explain any one factor that would affect surface tension of pure water in a beaker of water. **(2mks)**

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5. The diagram below shows apparatus used to observe the behavior of smoke particle in air.

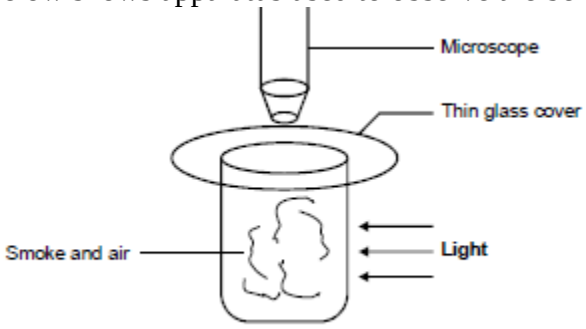


Figure 2

i. Why are smoke particles suitable for use in this experiment? **(1mk)**

……

……

ii. State and explain the behavior of the smoke particles **(2mks)**

……

……

……

6. Define the term Centre of gravity of a body. **(1mk)**

……

……

……

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7. A machine of velocity ratio of 50N overcomes a load of 4.5 $\times 10^3$ N when the effort of 120N is applied. Find the efficiency of the machine. **(3mks)**

8. Figure below shows a fluid flowing in a tube of varying cross-sectional area.

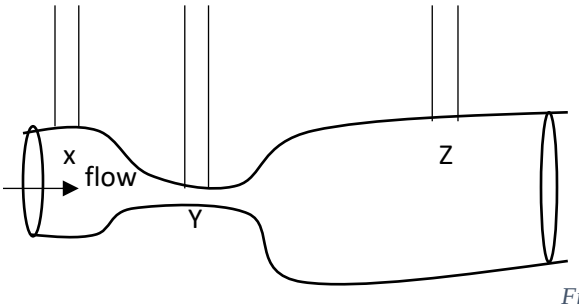


Figure 3

Show on the diagram the relative position of the levels of the liquid in section marked X, Y Z **(1mk)**

9. A uniform metre rule is pivoted at the 15cm mark and it balances when a mass of 40g is hung from the 2cm mark. Calculate the mass of the rule. **(3mks)**

10. Figure 4 shows a solid cylinder standing on a horizontal surface. The cylinder is in stable equilibrium. In the horizontal space provided, sketch the cylinders in neutral equilibrium **(1mk)**

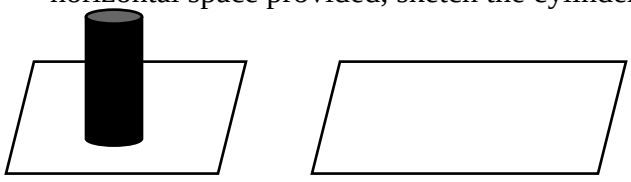


Figure 4

11. An object dropped from a height, h attains a velocity of 6m/s just before hitting the ground, find the value of h. **(2mks)**

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12. Figure 5 shows a Bunsen burner.

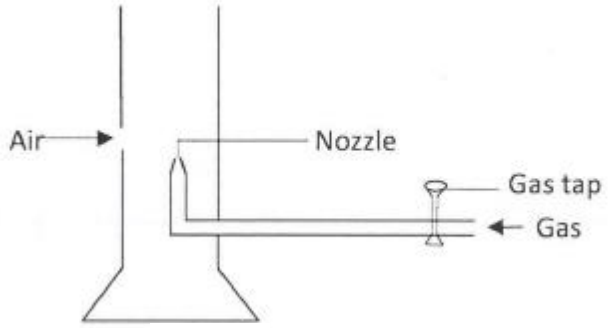


Figure 5

Explain how air is drawn into the burner when the gas tap is open. **(3mks)**

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……

13. State **two** measurements you would take in an experiment to determine the upthrust of an object which is immersed in a fluid. **(2mks)**

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……

SECTION B (55 MARKS)

14.

a) Distinguish between streamline and turbulent flow. **(1mk)**

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b) The figure below shows two light sheets of paper arranged as shown.

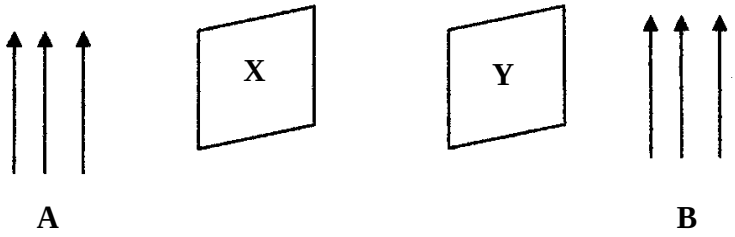


Figure 6

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Explain the observation made when air is blown at the same speed and time at points A and B.
(2mks)

c) The figure below shows an incompressible fluid moving through a tube of varied cross- sectional area. If the area of the small tube is $0.05m^2$, calculate the diameter of the large tube in cm.

(3mks)



Figure 7

d) Use the figure below to answer the questions that follow.

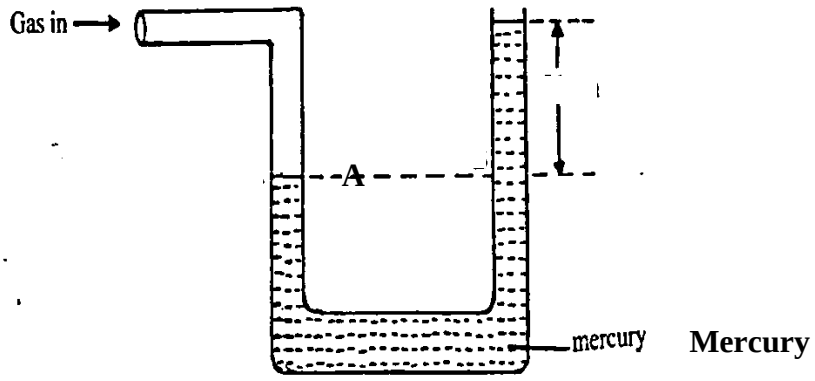


Figure 8

i.Which pressure is acting on point A? **(1mk)**

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ii. If the atmospheric pressure is 760mm of mercury, what is the value of gas pressure? **(3mks)**

e) A small nail may pierce an inflated car tyre and remain there without pressure reduction in the tyre. Explain this observation **(2mks)**

15. The figure below shows a velocity – time graph for the motion of a certain body.

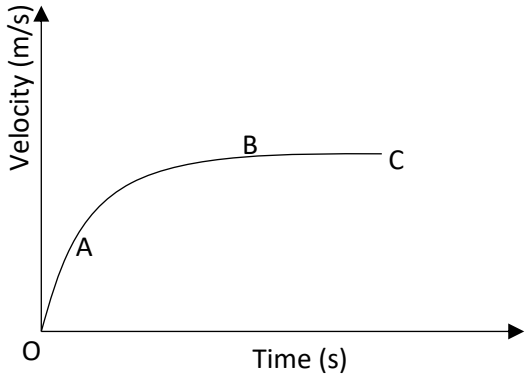


Figure 9

a) Describe the motion of the body in the region:

i) OA: **(1mk)**

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ii) AB: **(1mk)**

iii) BC: **(1mk)**

b) A car moving initially at 10m/s decelerates uniformly at 2.5m/s^2

Determine:

i. Its velocity after 1.5seconds. **(2mks)**

ii. Distance travelled in 1.5 seconds. **(3mks)**

iii. The time taken for the car to stop. **(3mks)**

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iv. Sketch the velocity – time graph for the motion of the car up to the time the car stopped. **(1mk)**

v. From the graph determine the distance the car travelled before stopping. (2**mks**)

16. In an experiment to determine the density of a soil using a density bottle, the following measurements were recorded.

Mass of empty density bottle	= 42. 9g
Mass of density bottle full of water	= 66.1g
Mass of density bottle with some soil	= 67. 2g
Mass of density bottle with soil filled up with water	= 82.0g

Use the above data to determine the:

a) Mass of water that completely filled the bottle **(2mks)**

b) Volume of water that completely filled the bottle **(1mk)**

c) Volume of the density bottle **(2mks)**

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d) Mass of soil **(1mk)**

e) Mass of water that filled the space above soil **(2mks)**

f) Volume of soil **(2mks)**

g) The density of the soils **(2mks)**

17.

a) Define the following terms as used in machines:

i. Load **(1mk)**

……

……

ii. Effort **(1mk)**

……

……

iii. Mechanical advantage **(1mk)**

……

……

iv. Velocity ratio **(1mk)**

……

……

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b) An electric crane uses 8.0×10^4J of energy to lift a load of 2.0×10^4N in 4 seconds. Determine:

i. The power developed by the crane **(2mks)**

ii. Height to which the load is lifted **(2mks)**

c) State two forms of energy transformations that lead to the crane's inefficiency **(2mks)**

18.

a) Distinguish between heat and temperature **(1mk)**

……

……

……

b) Two identical copper cans are filled with boiling water. The can in b is covered in cotton wool as shown.

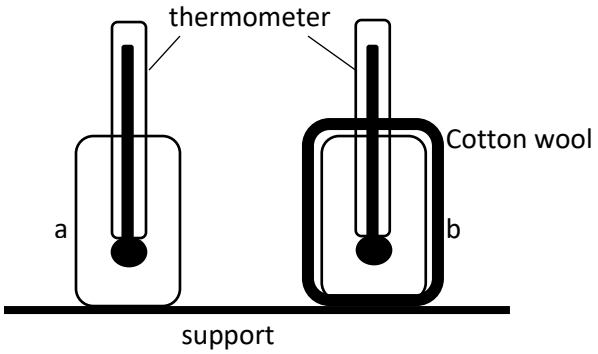


Figure 10

Which can would record lower temperature after 30 minutes. Explain **(2mks)**

……

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……

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c) Figure 11 is a clinical thermometer. Identify the parts labelled A and B. **(2mks)**

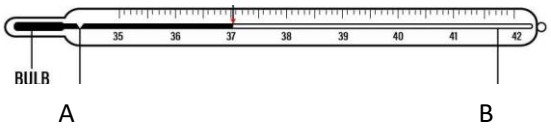


Figure 1

A ……... B …….....

d) State the function of the part labelled A **(1mk)**

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Term 2

PHYSICS (232/2)

FORM THREE (3)

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.
- You may use 'g' as $10m/s^2$

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SECTION	QUESTION	MAX MARKS	CANDIDATE'S SCORE
A	1 – 11	25	
	12	12	
	13	13	
	14	11	
	15	11	
	16	08	
	TOTAL	80	

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SECTION A (25 MARKS)

1. State the laws of reflection of light. **(2mks)**

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2. State the two advantages of optical fiber over the ordinary cable**.** **(2mks)**

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3. A driver looked into his side mirror and saw a diminished image of a car behind him.

(a) State the type of mirror the side mirror is made of. **(1mk)**

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(b) State two reasons why (a) above is preferred as side mirror**.** **(2mks)**

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4. State the basic law of electrostatics**.** **(1mk)**

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5.a) Define electric current. **(1mk)**

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b) A student was investigating the brightness of bulbs when set up in circuits. He used identical bulbs and cells. He set up circuit A and B consisting of two bulbs and two cells as shown in figure 1 below.

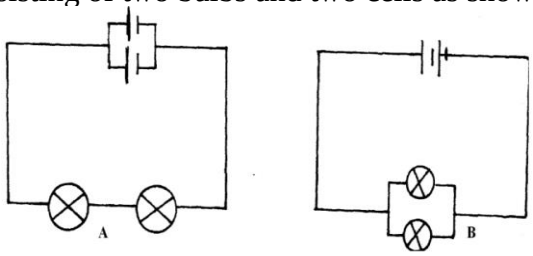


Figure 11

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State and explain which set – up had the bulbs brighter **(2mks)**

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6. State two factors that affects the resistivity of an electrical conductor. **(2mks)**

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7. The figure 2 below shows light travelling from less dense to more dense medium.

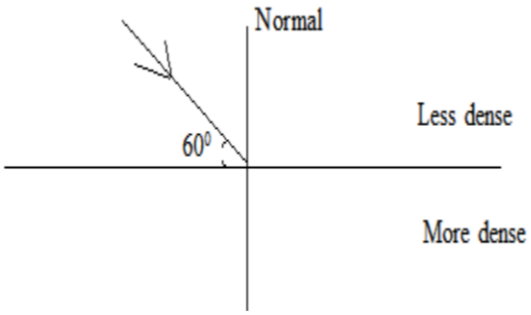


Figure 12

If the refractive index of the more dense medium is 1.4, calculate the angle of refraction. **(3mks)**

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8. The wavelength of a radio wave is 1km. Determine its frequency if the speed is $3 \times 10^8\, m/s$ **(2mks)**

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9. State two uses of gold leaf electroscope. **(2mks)**

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10. Why is repulsion the surest way of identifying a magnet**?** **(2mks)**

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11. A boy strikes a railway line with a hammer. A railway worker 60m away hears two sounds, one from the railway line and the other from air. If the time interval between the sounds is 0.16 seconds, and the average speed of the sound in air is 320 m/s. Determine the speed of sound in the rail. **(3mks)**

SECTION B (55 MARKS)

12. The figure 3 below shows an object O placed in front of a concave mirror as shown.

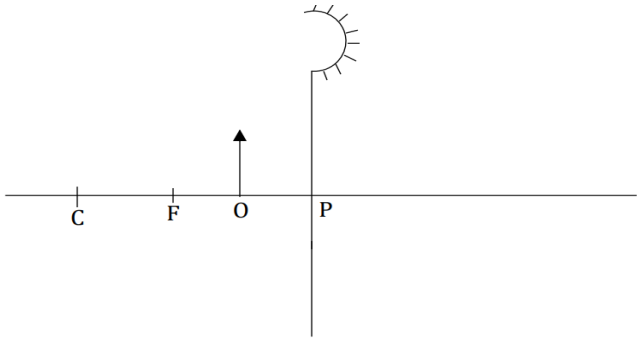


Figure 13

(i) Complete the diagram to show the image formed. **(3mks)**

(ii) State two characteristics of the image formed. **(2mks)**

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(iii) Give one application of the set up above **(1mk)**

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(iv) A pinhole camera of length 15 cm forms an image 3cm high of a man standing 9m in front of the camera what is the height of the man**?** **(3mks)**

……

……

……

……

(v) State the changes that would occur in the size and brightness of the image formed by a pinhole camera if;

a) The object distance is made large **(1mk)**

……

……

……

b) The length of the camera is made longer **(1mk)**

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c) The single hole is replaced by four pinholes close together. **(1mk)**

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13. (a) State Ohms law**.** **(1mk)**

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(b) A device allows current of 10A to pass through a point in a circuit for 25 seconds. Calculate the total charge passing through the point within the period**.** **(2mks)**

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(c) State two maintenance precautions for lead-acid cells **(2mks)**

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(d) The figure 4 below shows three resistors connected to 12v supply.

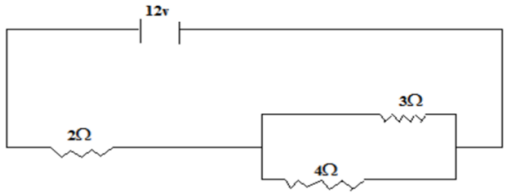


Figure 14

Calculate.

i) the effective resistance. **(3mks)**

……

……

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ii) The total current in the circuit. **(2mks)**

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iii) The current through the 4Ω resistance. **(3mks)**

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14. a) Describe two ways how a magnet can be destroyed **(2mks)**

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b) (i) Distinguish between soft and hard magnetic materials. **(2mks)**

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(ii) Which of the two types of materials is suitable for use as:

• Compass needle? **(1mk)**

……

……

• Core of an electromagnet? **(1mk)**

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c) State two ways by which the strength of an electromagnet can be increased. **(2mks)**

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d) The figure 5 illustrates a complete circuit diagram of an electric bell

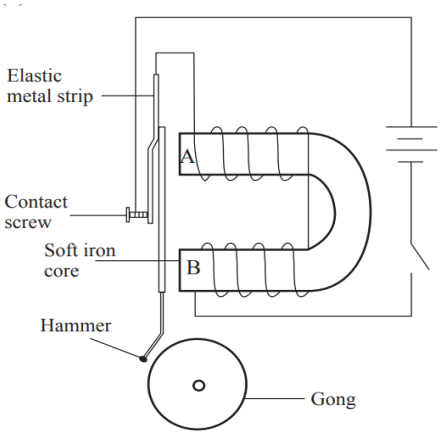


Figure 15

Explain how the bell works. **(3mks)**

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15. a) A spoon partly submerged in a glass of water appears bent. Explain. **(1mk)**

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b) Define refractive index in terms of real and apparent depth**.** **(1mk)**

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c) What do you understand by the terms;

(i) Total internal reflection **(1mk)**

……

……

(ii) critical angle? **(1mk)**

……

……

d) Diamond has refractive index of 2.4. Calculate critical angle. **(2mks)**

e) Describe an experiment to illustrate dispersion of white light. **(3mks)**

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f) Explain why dispersion occurs. **(2mks)**

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16. The figure 6 below shows a wave in progress

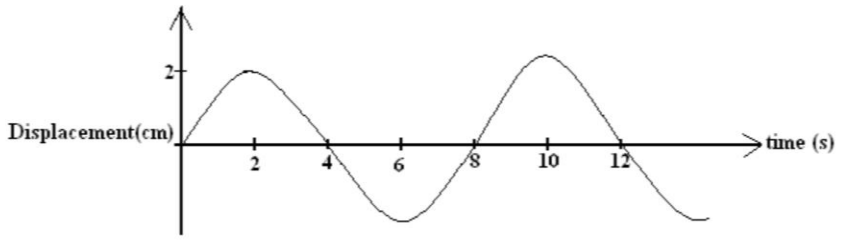


Figure 16

Determine the;

a) Amplitude **(1mk)**

b) Frequency **(2mks)**

c) What is an echo? **(1mk)**

d) State and explain the effect of temperature and pressure on the speed of sound **(2mks)**

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e) A person standing 110 m from the foot of a cliff claps his hands and hears a sound 0.75 seconds later. Find the speed of sound in air. **(2mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 2 SERIES ONE EXAMS

NAME: ……

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Term 2

PHYSICS (232/3)

FORM THREE (3)

Time: 2 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.

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QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
1	20	
2	20	
TOTAL	40	

QUESTION ONE

You are provided with the following;

- a rectangular glass block
- 4 optical pins
- a soft board
- a plain paper
- Two tuck pins
- Protractor (to be provided by the candidate)

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Proceed as follows:

a) Place the glass block on the plain paper with one of the largest face upper most. Trace round the glass block using a pencil as shown below.

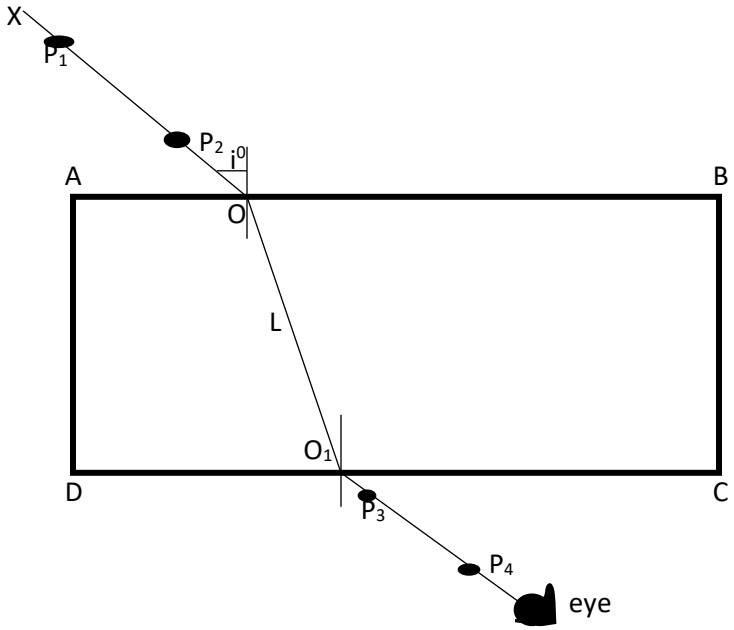


Figure 17

b) Remove the glass block and construct a normal at O (about mid-point of side AB). Construct an incident ray XO of angle of incidence, $i = 20^0$

c) Fix two pins, P_1 and P_2 along the line XO which will act as the path of the ray light at the given angle of incidence.

d) Replace the glass block on its outline and while viewing through the glass block from side CD (as shown above), fix two pins, P_3 and P_4 such that they appear to be in line with the pins P_1 and P_2.

e) Remove the glass block and the pins. Join point P_3 and P_4 with as a straight line and extend the line to meet the outline of the glass block at O_1, as shown above.

f) Measure the length, OO_1 and record it as L.

L = ... cm **(1mk)**

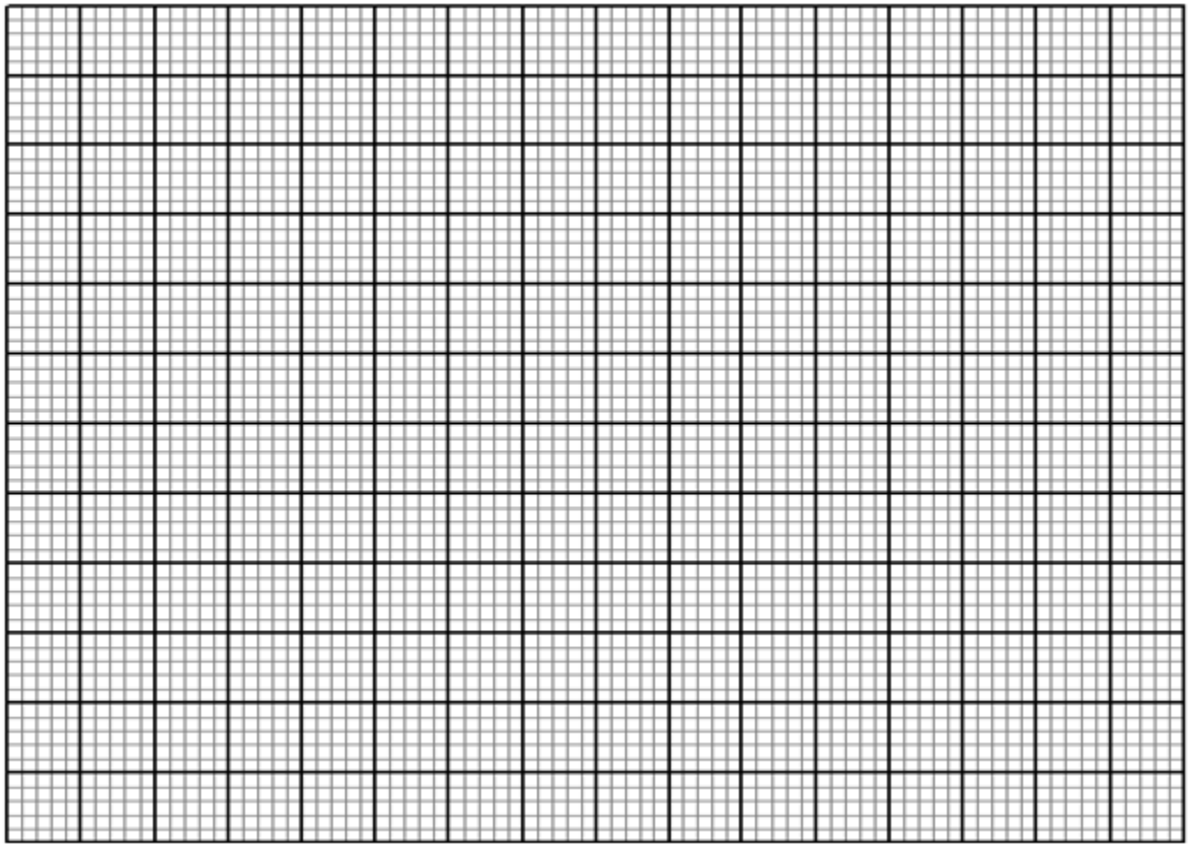
g) Repeat the above procedure for the angles shown in the table,1 and complete the table 1 accordingly.
(6 marks)

Table 1

Angle i^0	L (cm)	L^2 (cm^2)	$\frac{1}{L^2}$ (cm^{-2})	$Sin^2 i$
20				0.1170
30				0.2500
40				0.4132
50				0.5868
60				0.7500

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h) Plot a graph of $\frac{1}{L^2}$ (y-axis) against $\text{Sin}^2 i$. **(5mks)**



i) Calculate the gradient, S. **(3mks)**

j) Given that the equation of that graph is: $\frac{1}{L^2} = -\frac{1}{b}sin^2 i + c$, determine the values of b and c

i. $b =$ **.....** **(1mk)**

ii. $c =$ **.....** **(1mk)**

k) Calculate the value of Q given by; **(2mks)**

$Q = -\left(\frac{C}{S}\right) + b$

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l) Hand in your constructions on the plain paper together with the answer script. **(1mk)**

QUESTION TWO

You are provided with the following apparatus

- A complete stand
- Copper wire
- A stop watch
- A piece of thread
- Electric balance
- A meter rule
- Corked optical pin
- A protractor (to be provided by the candidate)
- One bar magnet

PART A

Procedure

a) Measure the length L of the copper wire.

L = ... cm **L = ... m** **(2mks)**

b) Bend the wire to form an angle $\theta = 60^0$, suspend it from the corked optical pin as shown in the diagram below.

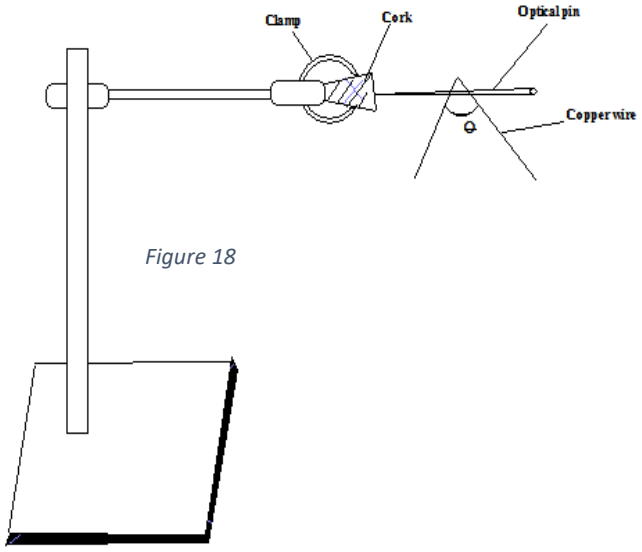


Figure 18

c) Give it a small displacement so that it oscillates about a point on the pin. Measure the time, t for 10 oscillations of the wire.

t = ... (s) **(1mk)**

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d) Repeat the procedure (c) above for the values of $\theta = 70^0, 80^0, 90^0, 100^0, 110^0$ and record your results in the table 2 below. **(8mks)**

Table 2

θ^0	60	70	80	90	100	110
$\cos\frac{1}{2}\theta$						
$time, t\ for\ 10\ oscillations\ (s)$						
Periodic time T (s)						
$T^2\ (s^2)$						
$\frac{1}{T^2}\ (s^{-2})$						

PART B

Proceed as follows:

e) Using the meter rule, measure the length L and breadth b for the magnet. **(2mks)**

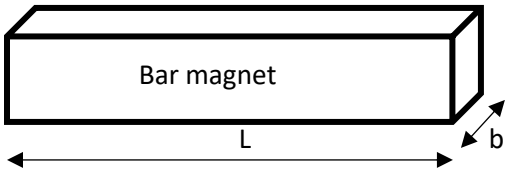


Figure 19

L = ... m

b = ... m

f) Use the balance to measure the mass M of the magnet.

M = ... kg. **(1mk)**

g) Determine P given that: $P = \frac{M}{3}(L + b)^2$ **(2mks)**

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h) Clamp the meter rule between the two retort stands. Using a piece of thread suspend the magnet at the 50 cm mark and in a horizontal plane such that the plane of the magnet is 20cm from the metre-rule (as shown in figure 4).

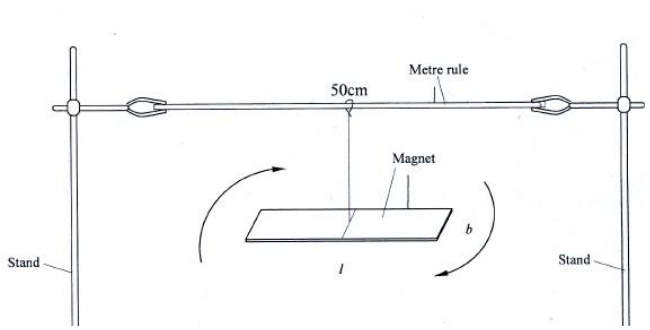


Figure 20

i) Keep away all unnecessary magnetic materials including voltmeter form this bar magnet.

j) Displace one end of the bar magnet through a small angle and let it oscillate 10 oscillations about vertical axis through its centre as shown by the arrows. Measure the time t for 10 oscillations:

i. t = ... s **(1mk)**

ii. period, T = …… s
(1mk)

k) Determine r, given that : $2r = \frac{P}{\sqrt{T}}$ **(2mks)**

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