FORM 4 PRE-MOCK 2 EXAMS



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FORM FOUR

PRE-MOCK 2 EXAMS

Prefer Calling Sir Obiero Amos

@ 0706 851 439

for Marking Schemes

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0706 851 439



NAME ……..……

SCHOOL……...

DATE ……INDEX NO. ……SIGN……..…

443/1

AGRICULTURE

PAPER 1 (THEORY)

TIME: 2 HOURS

AMOBI PUBLISHERS GROUP OF EXAMINERS

PRE-MOCK 2 EXAMS

INSTRUCTIONS TO CANDIDATES

1. Write your name and index number in the spaces provided above.
2. This paper consists of **THREE** sections: A , B and C
3. Answer **ALL** the questions in sections A and B and any **TWO** questions in section C
4. ALL answers **MUST** be written in the spaces provided.
5. Do not remove any pages from this booklet.

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	Questions	Maximum score	Candidate's score
A	**01-18**	**30 marks**	
B	**19-23**	**20 marks**	
C	**24-26**	**40 marks**	
		Total score	

SECTION A (30 MARKS)

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Answer ALL questions in this section.

1. Outline two ways in which agriculture promotes industrial growth in Kenya. **(1 mark)**

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2. Name two factors to consider when identifying a farming system. **(1 mark)**

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3. State two ways of increasing amount of light in a given field crop. **(1 mark)**

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4. Give four disadvantages of minimum tillage. **(2 marks)**

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5. State four influences of soil depth to crop production. **(2 marks)**

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6. Give four management practices carried out on bananas. **(2 marks)**

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7. State three basic economic concepts. **(1½ marks)**

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8. Mutua requires to apply 200kg/ ha of Nitrogen to produce a maize crop. The fertilizer available is Diammonium phosphate whose grade is 18 – 46 – 0. Calculate:

a) The amount of D.A.P he should apply. **(1 mark)**

b) The amount of P_2O_5 he should apply. **(1½ marks)**

9. List any four ways in which soil is deprived of its fertility. **(2 marks)**

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10. State four factors considered when selecting a site for a tomato nursery bed. **(2 marks)**

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11. State any two ways of breaking seed dormancy during the preparation of planting materials. **(1 mark)**

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12. State four advantages of tissue culture in crop production. **(2 marks)**

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13. Outline the role played by trees in soil and water conservation. **(2 marks)**

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14. Give four different ways in which viral diseases may spread in a crop field. **(2 marks)**

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15. Give any four insect pests with biting and chewing mouth parts. **(2 marks)**

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16. List any four types of terraces. **(2 marks)**

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17. State two possible causes of swelling of roots in legumes.**(1 mark)**

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18. Give two general symptoms of fungal diseases in crops.**(1½ marks)**

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SECTION B (20 MARKS)

Answer ALL questions in this section.

19. A farmer wanted to know the cause of his low crop yield. Give four things that may be determined during the process of soil testing.

(2 marks)

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20. Study the illustrations below and answer the questions that follow.



A



C



B

a) Name the types of grafting labeled A, B and C above. **(3 marks)**

A……

B……

C……

b) Name any two crops propagated by method C. **(2 marks)**

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c) Give any two tools or materials used in propagation method C.

(2 marks)

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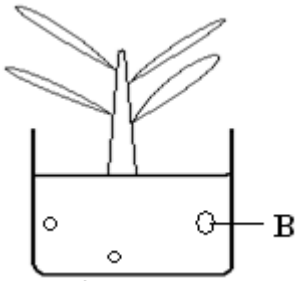
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21. Calculate the plant population in a 5.4 ha plot of a bean crop planted at the spacing 45cm x 20cm. Assume one plant per hole.

(5 marks)

22. The diagram below shows an established tea seedling in a polythene sleeve. Study the diagram and answer the questions that follow.



(i) State two functions of part B. **(1 mark)**

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(ii) Enumerate two advantages of raising seedlings in polythene sleeves. **(1 mark)**

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23. Outline four advantages of pure stand pastures. **(4 marks)**

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SECTION C (40 MARKS)

Answer ANY TWO questions in this section

24. Describe the process of water treatment. **(10 marks)**

Outline the importance of drainage as a land reclamation practice. **(10 marks)**

25. Describe production of tomatoes under the following subheadings.

(i) Ecological requirements. **(5 marks)**

(ii) Nursery establishment and management. **(8 marks)**

(iii) Control of pests. **(2 marks)**

(iv) Harvesting and marketing. **(5 marks)**

26. **(a)** Explain how the following factors influence agriculture.

(i) Cultural and religious beliefs. **(6 marks)**

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(ii) Transport and communication. **(6 marks)**

(b) State four advantages and four disadvantages of using pesticides.

(8 marks)

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SCHOOL……...

DATE ……INDEX NO. ……SIGN……..…

443/2

AGRICULTURE

PAPER 2 (THEORY)

TIME: 2 HOURS

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INSTRUCTIONS TO CANDIDATES

1. Write your name and index number in the spaces provided above.
2. This paper has **THREE** sections: A , B and C
3. Answer **ALL** the questions in section A and B and any **TWO** questions in section C
4. ALL answers **MUST** be written in the spaces provided.
5. Do not remove any pages from this booklet.

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	Questions	Maximum score	Candidate's score
A	**01-17**	**30 marks**	
B	**18-22**	**20 marks**	
C	**23-25**	**40 marks**	
		Total score	

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SECTION A (30 MARKS)

Answer ALL questions in this section.

1. State four problems associated with nomadic pastoralism method of farming. **(2 marks)**

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2. State one use of the following tools in the farm. **(2 marks)**

a) Spoke shave

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b) Pipe wrench

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c) Stock and die

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d) Wire strainer

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3. Name one exotic dairy cattle breed in Kenya which produces milk with:

a) Highest butter fat content. **(1 mark)**

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b) Lowest butter fat content. **(1 mark)**

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4. Name two dual purpose breeds of dairy cattle reared in Kenya **(1mrk)**

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5. Name two sources of energy concentrates. **(1 mark)**

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6. Using Pearson's square method, compute a 100kg ration with 20% DCP from sunflower seed cake which contains 10% DCP and simsim seed containing 60% DCP. **(4 marks)**

7. Name three livestock diseases transmitted by ectoparasites. **(1½marks)**

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8. Name an intermediate host for the following internal parasites.**(2 mrks)**

a) Tapeworms

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b) Liver flukes

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9. Give any two reasons for docking in sheep rearing. **(1 mark)**

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10. State two functions of the queen in a beehive. **(1 mark)**

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11. State three maintenance practices carried out on a piggery unit.**(1½mrks)**

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12. State four disadvantages of an electrical fence. **(2 marks)**

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13. State four advantages of using a spray race for controlling parasites.

(2 marks)

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14. Give four disadvantages of artificial insemination in livestock production. **(2 marks)**

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15. Give any four structural requirements that a calf pen should possess.

(2 marks)

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16. List two signs of infertility in cows. **(1 mark)**

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17. Give two methods of introducing vaccines to livestock. **(2 marks)**

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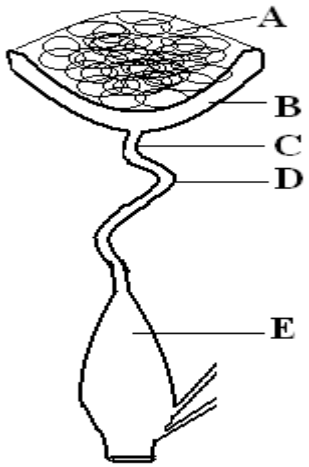
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SECTION B (20 marks)

Answer ALL questions in this section.

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



(i) Name the parts labelled A, B, C, D and E in the diagram.**(2½ marks)**

A……

B……

C……

D……

E……

(ii) State the function of each part. **(2½ marks)**

A

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B

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C

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D

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E

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19. Give two reasons why a jersey breed cattle is adapted to arid and semi arid areas. **(2marks)**

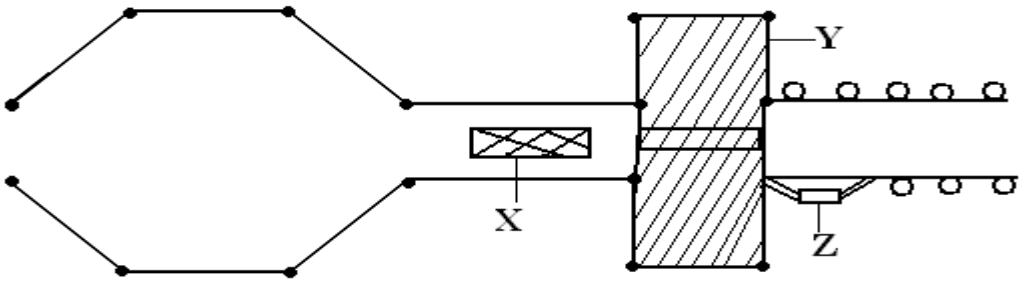
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20. The diagram below represents an aerial view of a farm structure. Study it carefully and answer the questions that follow.



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a) Identify the structure. **(1 mark)**

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b) Name the parts labeled X, Y and Z. **(3 marks)**

X……

Y……

Z……

c) List two roles of the part labeled Y. **(2 marks)**

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21. Give two reasons for carrying out hoof trimming. **(1 mark)**

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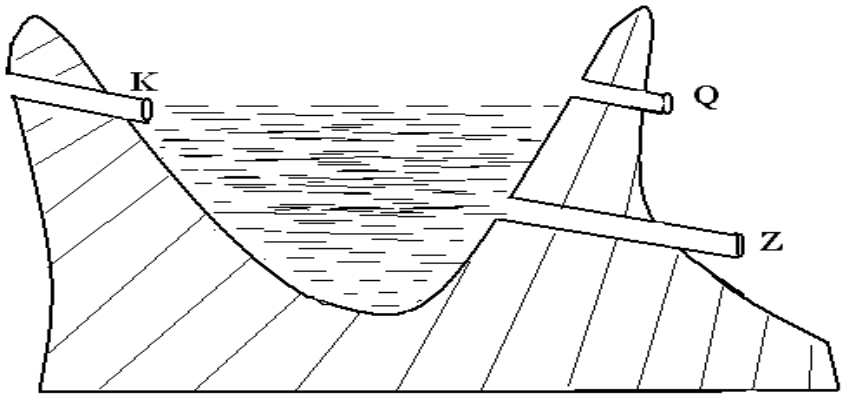
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22. The illustration below is a farm structure.



a) Identify the structure. **(1 mark)**

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b) Name the parts labeled K, Q and Z. **(3 marks)**

K……

Q……

Z……

c) Give four maintenance practices carried out on the above structure.

(2 marks)

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SECTION C (40 MARKS)

Answer ANY TWO questions in this section

23. a) Give five functions of vitamins in livestock production.**(5 marks)**

b) Describe the importance of colostrum to young animals within the first week of birth. **(10 marks)**

c) Outline five advantages of embryo transplant technology in cattle management. **(5 marks)**

24. a) Mention four methods of water harvesting. **(4 marks)**

b) Describe the different types of micro catchments used in water conservation. **(10 marks)**

c) Explain the importance of micro catchments. **(6 marks)**

25. a) Outline ten factors to consider when selecting gilt for breeding stock. **(10 marks)**

b) Explain the economic importance of parasites to livestock animals. **(10 marks)**

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AMOBI PUBLISHERS GROUP OF EXAMINERS

PRE-MOCK 2 EXAMS

231/1
BIOLOGY
PAPER 1
(THEORY)
2 HOURS

INSTRUCTIONS TO CANDIDATES

- Write your name and Index Number in the spaces provided above.
- Sign and write date of examination in the spaces provided above.
- Answer **ALL** questions in the spaces provided.
- All workings **MUST** be clearly shown where necessary.

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Question	Maximum Score	Candidates Score
1 – 28	80	

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1. Name the reagent used for testing presence of (3 **marks**)
   (a)Starch

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   (b) Reducing sugars

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   (c)Vitamin c

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2. State the processes which occur in each of the following organelles.
   (2 **marks**)

   (a)Chloroplast

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   (b) Mitochondrion

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   (c)Ribosomes

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3. A student observed a specimen through a light microscope. He used the objective lens marked X40.If he indicated the magnification of the image as x 400, what was the eye - piece magnification?
   (Show your working). (3 **marks**)

4. State the function of the following in mammalian trachea. (3 **marks**)
   (a)Rings of cartilage

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   (b) Mucus

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(c)Cilia

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5. (a)What do you understand by the term biological control? (1 **mark**)

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(b) Explain why all the energy produced by producers does not flow to the tertiary consumers. (2**marks**)

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6. Name any three forces that maintain the transpiration stream (3 **marks**)

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7. Give the form in which the following gases are transported in blood. (3 **marks**)

(a)Oxygen

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(b) Carbon (IV) oxide

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(c)Carbon (II) oxide

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8. (a) Name the main group of organisms which comprise the Kingdom Monera. (1**mark**)

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(b) State any three ways in which the organisms named in 8 (a) above affect human lives. (3**marks)**

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(d) State the main characteristics of Monera which distinguish it from all other kingdoms. (1 **mark)**

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9. State ways in which the xylem tissue is adapted to carry out its function. (3**marks**)

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10. Why is it necessary for an athlete to breathe heavily after running? (2 **marks**)

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11. State ways in which the following diseases can be prevented

(a)Typhoid and amoebic dysentery (2 **marks)**

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(b) Malaria (2 **marks**)

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12. What are the three distinguishing features of phylum Arthropoda?

(3**marks**)

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13. (a) Name the main product of the dark stage of photosynthesis.

(1**mark**)

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(b) What is the role of chlorophyll during photosynthesis (2**mark**)

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14. Name three mechanisms that prevent self-pollination in flowers that have both male and female parts. (3 **marks**)

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15. State three applications of anaerobic respiration. (3 **marks**)

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16. What is the significance of highly folded inner membrane of a mitochondrion? (2 **marks**)

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17. Why is it necessary for blood from the gut to pass through the liver before joining general circulation? (2 **marks**)

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18. A person's urine tested positive for reducing sugars.

(a)Name the type of sugar present in the urine. (1**mark**)

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(b) Name the gland and the hormone which failed to control the above condition. (2**marks**)

Gland

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Hormone

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(c)Which disease was the person suffering from? (1**mark**)

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19. State two roles played by the process of reproduction. (2**marks**)

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20. What is the habitat of the following plants? (3**marks**)

(i) Xerophytes

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(ii) Hydrophytes

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(iii) Halophytes

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21. (a) State ways in which molars are adapted to their functions. (2**marks**)

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(b) Name any two dental diseases. (2 **marks**)

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22. How is the sperm cell adapted to carry out its function? (3 **marks**)

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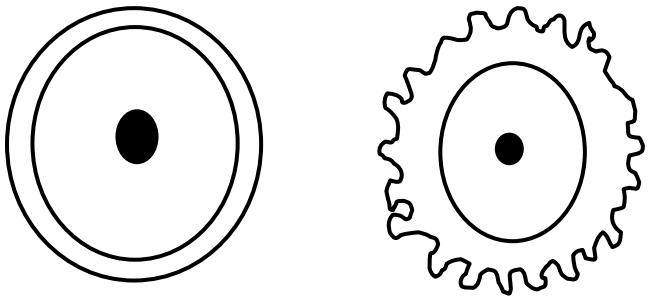
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23. The following are diagrams of two pollen grains.



K **L**

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(a)State one observable difference between K and L. (1 **mark**)

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(b) State the agent of pollination for each of them. (2 **marks**)

K

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L

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24. How do sunken stomata reduce transpiration? (2**marks**)

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25. Give the classes to which the following animals belong. (3**marks**)

(a)Human being

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(b) House fly

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(c)Spider

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26. (a) State one event that occurs in prophase of meiosis I which does not occur in prophase of mitosis. (1 **mark**)

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(b) What are the results of the above phenomena? (2 **marks**)

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27. Explain why growing grass die a few days when salt is sprinkled on it. (3**marks**)

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BIOLOGY PAPER 2

(THEORY) 2 HOURS

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PRE-MOCK 2 EXAMS

INSTRUCTIONS TO CANDIDATES

- Write your name and Index Number in the spaces provided above.
- This paper consists of **two** sections. Section **A** and section **B.**
- Answer **ALL** questions in section **A** in the spaces provided. In section **B** answer question **6** (compulsory) and either question **7** or **8** in the spaces provided after question 8

For Examiners use only.

Section	Question	Maximum score	Candidates score
A	1	8	
	2	8	
	3	8	
	4	8	
	5	8	
B	6	20	
	7	20	
	8	20	
	Total score	80	

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1. (a)What is meant by the following terms?

(i) Protandry (1**mark**)

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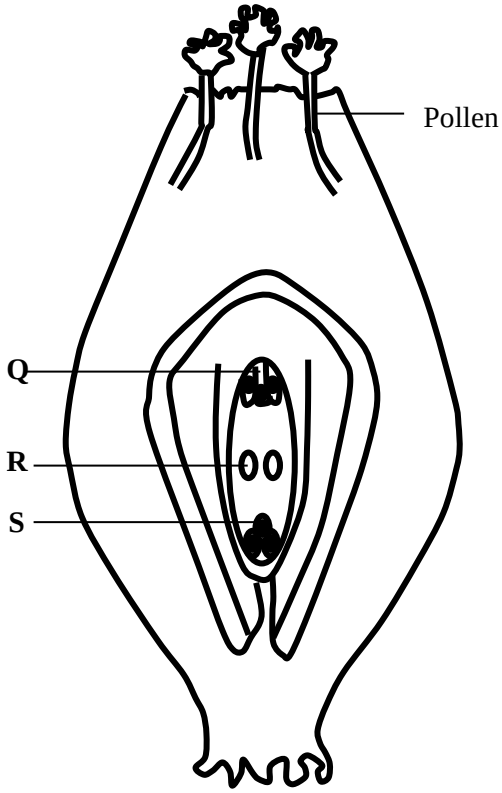
(ii) Self sterility (1**mark**)

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(b) The diagram below shows a stage during fertilization in a plant.



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(i) Name the parts labelled Q,R and S (3 **marks**)

Q ……

R……

S ……

(ii) State two functions of the pollen tube (2 **marks**)

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(c)On the diagram label the microphyle. (**1mark**)

2. Explain what happens to excess amino acids in the liver of humans.
(3**marks**)

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(b)Which portions of the human nephron are only found in the cortex?

(3 **marks**)

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(c)(i) What would happen if a person produced less antidiuretic hormone? (1 **mark**)

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(ii)What term is given to the condition described in C (i) above? (1**mark**)

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3. (a) (i) What is meant by the term biological control? (1**mark**)

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(ii) Give an example of biological control. (1**mark**)

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(b)(i) What is eutrophication? (3**marks**)

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(ii) What are the effects of eutrophication? (3 **marks**)

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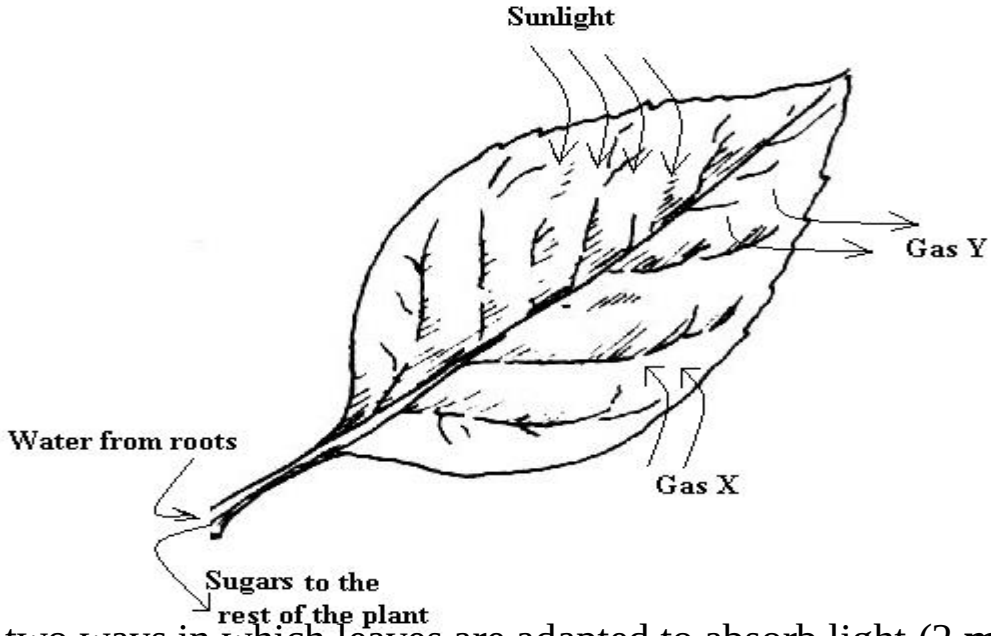
(c)Name a substance that is responsible for acid rain. (1**mark**)

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4. Leaves are the organs of photosynthesis. The following diagram shows what happens in a plant leaf during photosynthesis.



(a)Give two ways in which leaves are adapted to absorb light.(2 **marks**)

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(b) Name the gases labelled X and Y. (2**marks**)

X……

Y ……

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(c)Name the tissue which transport:

(i) Water in to the leaf. (1 **mark**)

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(ii) Sugars out of the leaf. (1 **mark**)

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(d) Explain why it is an advantage for the plant to store carbohydrates as starch rather than as sugars. (2**marks**)

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5. Some millet seeds were socked in water for two days. They were then broken into small pieces and placed on the surface of agar containing starch. After two days it was found that the agar no longer contained starch.

(a)Suggest how the test for starch in the agar was carried out. (1 **mark**)

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(b) Explain why there was no starch in the agar after two days. (2**marks**)

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(c)Why was it necessary to soak the seeds? (1**mark**)

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(d) Why were the millet seeds broken into small pieces? (1**mark**)

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(e)State the observation that would be made if the seeds had been soaked in boiling water? (1**mark**)

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(f) Suggest a control experiment that would have been suitable. (2**mrks**)

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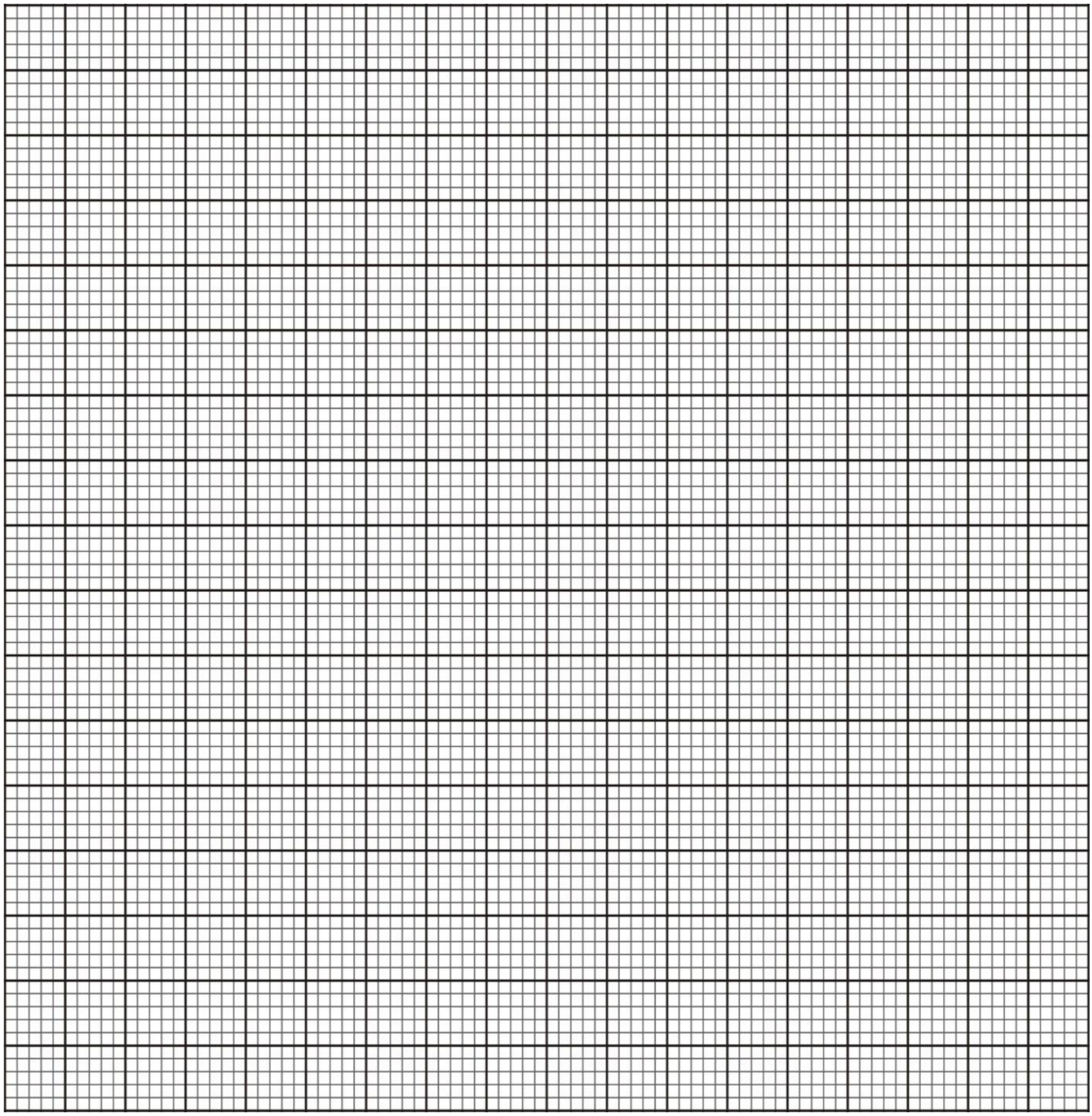
SECTION B:

Answer question 6 (compulsory) and either question 7 or 8 in the spaces provided after question 8

6. A research was carried to determine the trend of growth of some boys and girls.Their average mass in kilograms was taken separately for a period of 20 years and tabulated as shown in the table below.

Age	Average mass of boys (kg)	Average mass of girls (kg)
0	2.5	2.5
2	11.5	11.5
4	15.0	16.0
6	18.5	19.3
8	22.1	27.1
10	25.1	27.1
12	27.5	30.5
14	37.0	35.5
16	44.0	44.0
18	46.9	52.0
20	48.5	55

(a)On the same axis draw a graph of the average mass of the girls and boys against age. (7**marks**)



(b) From the graph , determine the;-

(i) Mass of boys at the age of 11 years. (1 **mark**)

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(ii) Growth rate of girls between ages 13 and 15. (3 **marks**)

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(c)Account for the change in the mass of girls during the age stated in (ii) above. (2 **marks**)

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(d) Explain the trend observed in the curves for both boys and girls.(2 **marks**)

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(e)Why do girls above 10 years require in take of food that is richer in iron than boys of the same age? (2 **marks**)

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(f) Part from using average mass to estimate growth in human beings, name two other parameters that can be used. (2 **marks**)

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7. Describe how the various parts of the human digestive system are adapted to their functions. (20 **marks**)

8. (a)State the causes of air pollution. (5 **marks**)

   (b) State how air pollutants affect organisms hence state how air pollution should be controlled. (15 **marks**)

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NAME ……..……

SCHOOL……...

DATE ……INDEX NO. ……SIGN……...…

231/3 BIOLOGY

PAPER 3 (PRACTICAL) $1^{3}/_{4}$ HOURS

AMOBI PUBLISHERS GROUP OF EXAMINERS

PRE-MOCK 2 EXAMS

INSTRUCTIONS TO CANDIDATES

- Write your name and Index Number in the spaces provided above.
- Sign and write date of examination in the spaces provided above.
- Answer **ALL** questions in the spaces provided in the question paper.
- You are **NOT** allowed to start working with the apparatus for the first 15 minutes of the $1^{3}/_{4}$ hours allowed for this paper. This time is to enable you to read the question paper and make sure you have all the chemicals and apparatus that you may need.
- All workings **MUST** be clearly shown where necessary.
- Mathematical tables and silent electronic calculators may be used.

For Examiners use only.

Question	Maximum Score	Candidates Score
1	12	
2	14	
3	14	
TOTAL SCORE	40	

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1. (a)You are provided with a solution L. Using the reagents provided; determine the food compounds in L. Fill in the table below.

FOOD COMPOUND	PROCEDURE	OBSERVATION	CONCLUSION

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(b) Place 10mls of solution L in a visking tubing. Tie both ends and place it in 50mls of distilled water contained in a beaker.leave the set up for 20 minutes and make observations.

(i) Observations. (1**mark**)

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(ii) Account for the observation in b (i) above. (2**marks**)

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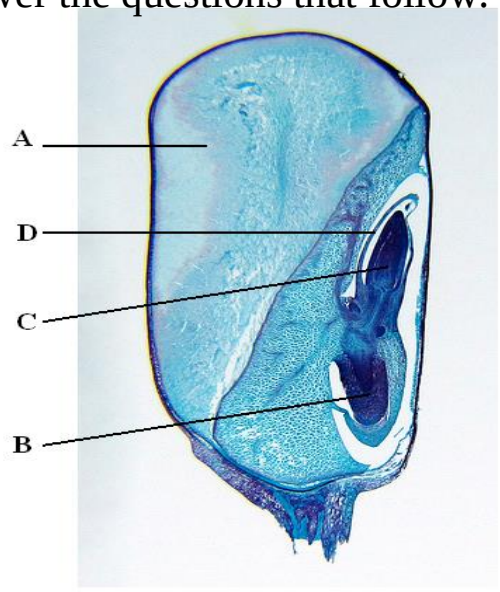
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(iii)Give the equivalent of a visking in the bodies of living organisms. (1mark)

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2. Study the photomicrograph of the longitudinal section of a maize fruit below and answer the questions that follow.



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(a)(i) Name the parts labelled A, B, C and D. (4**marks**)

A……

B……

C……

D……

(ii) Give the role played by A and D. (2 **mark**)

A

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D

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(b) (i) Name the type of germination exhibited by maize grain.(1 **mark**)

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(ii) Place the organisms from where the photomicrograph was obtained into its (3**marks**)

Kingdom**……..**

Division **……..**

Class **……**

(iii) State three characteristics of members of the class identified in b (ii) above (3**marks**)

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(c)Give one reason why the maize grain is classified as a fruit.

(1**mark**)

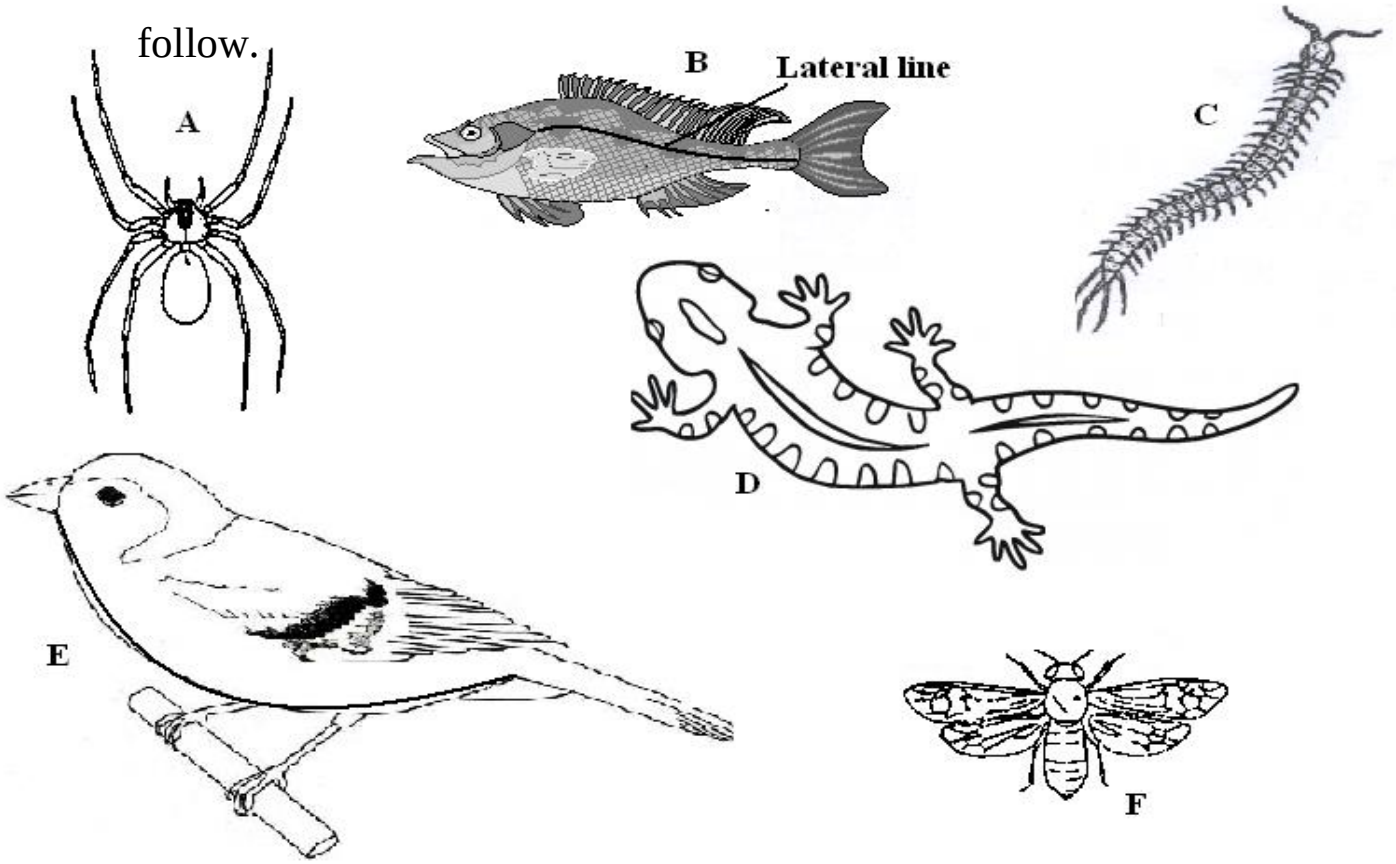
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3. Study the organisms drawn below and answer the questions that follow.



(a)Use the dichotomous key below to identify the class the organisms belong to. (12 **marks**)

1. (a)Phylum Chordata …… go to 2
   (b) Phylum arthropoda …… go to 3
2. (a)Has scales on the body …… go to 4
   (b) Has no scales on the body ……..… Mammalia
3. (a)Has cephalothorax ……..……. Arachnida
   (b) Has no cephalothorax …… go to 5
4. (a)Has fins …… Pisces
   (b) Has no fins ……... go to 7

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5. (a)Has three pairs of legs ……. Insecta
   (b) Has more than three pairs of legs …… go to 6
6. (a)Two pairs of legs per segment …… Diplopoda
   (b) One pairs of legs per segment …….. Chilopoda

7. (a)Has feathers ……. Aves
   (b) Has no feathers …… go to 8
8. (a)Has a tail …….. Reptilia
   (b) Has no tail …….. Amphibia

Specimen	Step followed	Identity
A		
B		
C		
D		
E		
F		

(b) If the actual length from the tip of the mouth to the tip of the tail of the specimen B is 100mm, calculate the magnification.(2**marks**)

NAME ……..……

SCHOOL……...

DATE ……INDEX NO. ……SIGN……...…

BUSINESS STUDIES

PAPER 1

TIME: 2 HOURS

AMOBI PUBLISHERS GROUP OF EXAMINERS

PRE-MOCK 2 EXAMS

INSTRUCTIONS TO CANDIDATES

Answer all the questions in spaces provided.

FOR EXAMINERS USE ONLY

QUESTIONS	1	2	3	4	5	6	7	8	9
MARKS									

10	11	12	13	14	15	16	17	18

19	20	21	22	23	24	25

TOTAL MARKS

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1. State four factors that you would consider before extending credit facilities to a customer. (4 **Marks**)

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2. Give four characteristics of human wants. (4 **Marks**)

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3. The following information relates to businesses W, X, Y and Z. (4 **Marks**)

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

BUSINESS	ASSETS	LIABILITIES	CAPITAL
W	350,000	b	150,000
X	a	160,000	240,000
Y	800,000	450,000	d
Z	700,000	c	280,000

Determine the figures represented by a, b, c and d. (4 **Marks**)

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4. State any four principles that govern the operations of co-operative societies in Kenya. (4 **Marks**)

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5. Highlight four limitations posed by the use of national income statistics as a way of comparing the living standards of people for different countries. (4 **Marks**)

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6. State four merits associated with internal borrowing. (4 **Marks**)

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7. What four measures would you advice the government of Kenya to apply so as to curb the inflationary tendencies the country is currently experiencing? (4 **Marks**)

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8. State four factors that may influence the price elasticity of demand of a commodity. (4 **Marks**)

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9. State four possible factors that may contribute to a case of an abnormal demand curve. (4 **Marks**)

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

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10. The data below relates to Kimeu's business as at 31st Dec 2010. (4 **Mark**)

	Shs
Capital as at 1st Jan 2010	100,000
Additional investment in the year	40,000
Profit realized in the year	25,000
Drawings made in the year	45,000

Determine Kimeu's capital as at 31st Dec 2010

11. State four features of labour as a factor of production (4 **Marks**)

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12. The table below shows descriptions relating to some documents used in home trade. Name the document fitting the description. (4 **Marks**)

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DESCRIPTION	DOCUMENT
(i) Used to correct an undercharge error	
(ii) Seeking information on items stocked and their prices	
(iii) Inform the buyer that the goods ordered have been dispatched	
(iv) Requests payment for goods before they are sent to the customer	

13. Outline four reasons why governments participate in business. (4 **Marks**)

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14. State four features of an oligopolistic type of Market. (4 **Marks**)

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15. The following information relates to Blue star traders in the year 2009. Jan 1 started business by depositing Shs. 150, 000 in the business' bank account Jan 2 bought stock worth shs. 10,000 by cash. Enter these transactions in the relevant ledger accounts.

16. State four possible errors that may not be detected by a trial balance.

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17. Under what four circumstances would a producer opt to sell his goods directly to his customers? (4 **Marks**)

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18. The balances below were extracted from the books of Kazu traders as at 30th June 2010.

ITEM	KSHS
Furniture	20,000
Debtors	30,000
Creditors	42,000
Cash in hand	25,000
Cash at bank	60,000
Delivery van	280,000
Capital	348,000

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Bank van	120,000
Net loss	45,000

Prepare Kazu's balance sheet as at 30th June 2010.

19. State four gaps in the market that may provide an opportunity to an entrepreneur. (4 **Marks**)

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20. State four reasons why an insured may not be compensated despite an insured risk occurring. (4 **Marks**)

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21. Under what four circumstances would an office manager think of replacing an existing machine with a modem one? (4 **Marks**)

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22. State four ways through which a consumer may be exploited.(4 **Mrks**)

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23. Give four differences between an ordinary share and a preference share.

ORDINARY SHARE	PREFERENCE SHARE

24. Kim insured his motor vehicle value at shs.1,000,000 for shs. 800,000. The motor vehicle was involved in an accident and declared a write off. Calculate the amount Kim should get from the insurer. (4 **Marks**)

25. State four ways through which the piece of a commodity may be determined. (4 **Marks**)

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

NAME ……..……

SCHOOL……...

565/2

BUSINESS STUDIES

PAPER 2

TIME: 2 ½ HOURS

AMOBI PUBLISHERS GROUP OF EXAMINERS
PRE-MOCK 2 EXAMS

INSTRUCTIONS TO THE CANDIDATES

Answer any **FIVE** questions

All questions carry equal marks

All working must be shown

1. a) Explain five causes of unemployment in Kenya. (10 **Marks**)

b) Explain five circumstances that would influence a producer to use wholesalers in distributinghis produce. (10 **Marks**)

2. a) Explain five ways in which the insurance industry contributes to the development of Kenya's economy. (10 **Marks**)

c) Explain five demerits of government involvement in the running of public corporations. (10 **Marks**)

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

3. a) Explain five factors that may be considered in determining the appropriate channel fordistributing goods. (10 **Marks**)

b) Explain five reasons why business organizations may merge with one another. (10 **Marks**)

4. a) Explain five benefits that a country would get by encouraging investors to locate industries in rural areas. (10 **Marks**)

b) On 1st May 2010 Musa Traders had sh. 15, 000 cash in hand and Sh. 160, 450 at bank.During the month, the following transactions took place.

May 2	Bought goods for Sh. 5, 400 and paid by cheque.
May 8	Received sh. 7, 200 cash from a debtor
May 15	Paid a creditor Sh. 18, 300 by cheque
May 16	Paid salaries sh 4, 200 in cash
May 18	Sold goods for sh. 9, 200 and was paid by cheque
May 20	Withdrew sh. 30, 000 from bank for office use
May 25	Received sh.8, 000 cash from a debtor
May 28	Paid general expenses sh. 4, 000 cash.
May 29	Deposited sh.10, 000 cash in bank
May 30	Paid for electricity sh. 2, 500 by cheque

Record the above transactions in a two column cash book and balance it off. (10 **Marks**)

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5. a) Explain five ways which traders can apply to attract more customers. (10 **Marks**)

b) Explain five factors that could affect the quantity of cabbages supplied in a Market. (10 **Marks**)

6. a) Explain five factors to consider when choosing an appropriate means of transport. (10 **Marks**)

b) The following balances were extracted from the ledger accounts of Bidii traders for the yearended 31st December 2010.

Capital	940, 000
Bank	100, 000
Accrued expenses	20, 000
Debtors	60, 000
Creditors	60, 000
Stock	100, 000
10 Years Bank loan	200, 000
3 year ICDC loan	100, 000
Vehicle	300, 000
Plant and machinery	200, 000
Land	500, 000
Drawings	40, 000
Cash	20, 000

Using these balances prepare Bidii traders trial balance for that year dully balanced.(10 **Marks**)

NAME ……..……

SCHOOL……...

DATE ……INDEX NO. ……SIGN……...…

AMOBI PUBLISHERS GROUP OF EXAMINERS

PRE-MOCK 2 EXAMS

565/2

BUSINESS STUDIES

PAPER 2

TIME: 2 ½ HOURS

INSTRUCTIONS TO CANDIDATES

a) Write your **NAME** and **INDEX NUMBER** in the space provided above
b) Sign and write the date of examination in the spaces providedabove
c) Answer **ALL** the questions in the spaces provided
d) **ALL** working must be clearly shown where necessary.
e) Mathematical tables and silent electronic calculators may be used.

FOR EXAMINER'S USE ONLY

Question	Maximum score	Candidate's score
1 –31	80	
Total score	80	

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1. An element K has atomic number 20 while element M has atomic number 8.

a) Write the electronic configuration for K and M

K……**1mark**

M ……**1mark**

b) Write the symbol of the most stable ion of K and M

K…… **1mark**

M ……..…… **1mark**

2. Molten Lead (II) bromide is electrolyzed using carbon electrodes. Write the half equations of the reactions that occur at the anode and the cathode.

a) Anode ……**1mark**

b) Cathode……...……..…**1mark**

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3. Explain why the conductivity of metals decreases with increase in temperature. **2marks**

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4. Three metal oxides XO, YO, and ZO are heated with powdered metal Y. Hot powdered Y will remove oxygen from XO but not from ZO. Arrange the metals in order of reactivity, starting with the most reactive. **1mark**

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5. Some sodium chloride was found to be contaminated with copper (II) oxide. Describe how a sample of sodium chloride can be separated from the mixture. **2marks**

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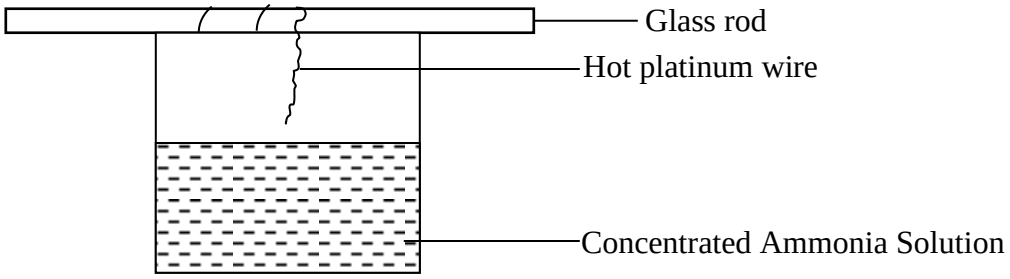
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6. Hot platinum wire was lowered into a flask containing concentrated ammonia solution as shown below.



State and explain the observations made. **3marks**

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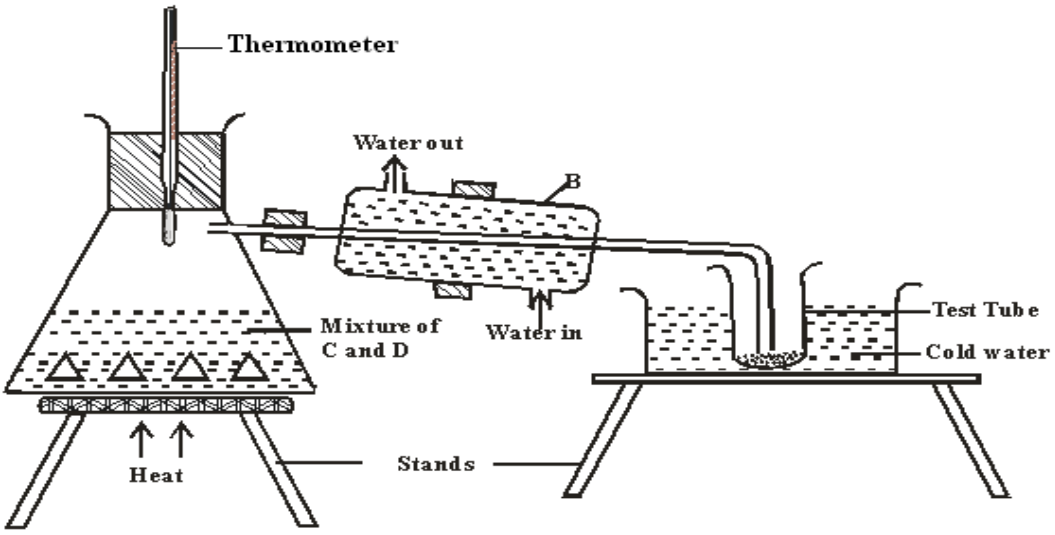
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7. The set up below represents the apparatus that may be used to separate a mixture of two miscible liquids C and D whose boiling points are 80^0C and 110^0C.



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a) Name B **1mark**

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b) What is the purpose of the thermometer **1mark**

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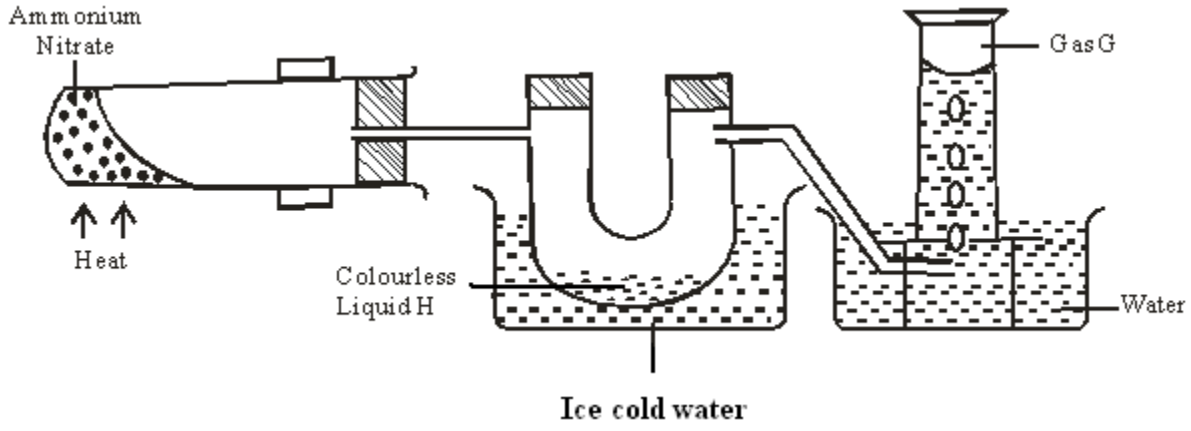
c) Which liquid was collected in the test tube? **1mark**

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8. Draw a dot (.) and cross (x) diagram to show bonding in carbon (II) oxide. **2marks**

9. Ammonium nitrate was gently heated and the products collected as shown in the diagram.



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a) Identify:

i. Colourless liquid H **1mark**

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ii. Gas G **1mark**

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b) Describe one physical and one chemical test that can be used to identify gas G. **2marks**

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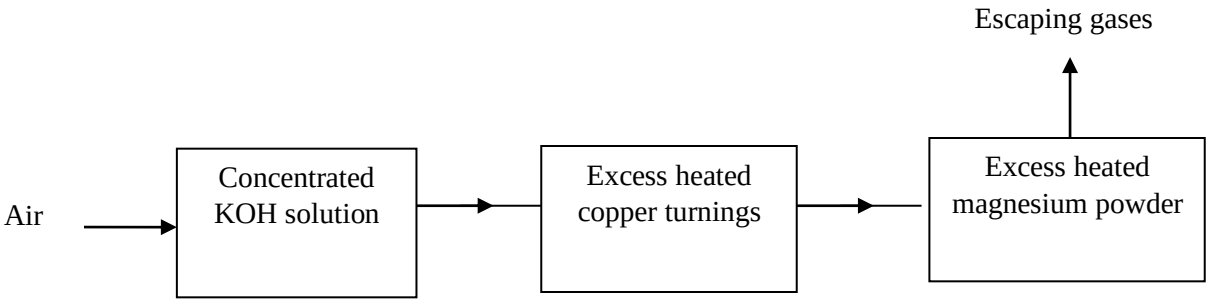
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10. Air was passed through several reagents as shown in the flow chart below.



a) What is the purpose of concentrated potassium hydroxide solution?

1mark

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b) Write an equation for the reaction which takes place in the chamber with magnesium powder. **1mark**

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

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(d) Give a reason for your answer **2marks**

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11. Name the following substances.

a) $CH_2\,CH\,CH_2\,CH_3$ **1mark**

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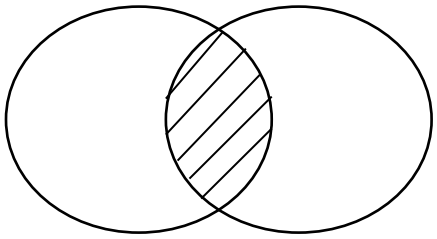
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b) $CH_3\ CH\ CH\ CH_2\ CH_3$ **1mark**

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12. The diagram below shows the acidic and basic oxides fit into the general family of oxides.



Acidic Oxide Basic Oxide

a) State the name given to the type of oxide that would be placed in the shaded area. **1mark**

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b) Give the name of any oxide that would be placed in the shaded area. **1mark**

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13. Study the information in the table below and answer the questions that follow. The letters do not represent the actual symbols of the elements.

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

Substance	**Solubility in water**	**Electrical conductivity**	
		Solid	**Molten**
A	Insoluble	Good	Good
B	Soluble	Poor	Good
C	Insoluble	Poor	Poor

i) Which of the substances is highly likely to be sodium chloride? Explain **2marks**

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ii) What type of bond exists in substance A? **1mark**

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iii) State a possible structure in substance C? **1mark**

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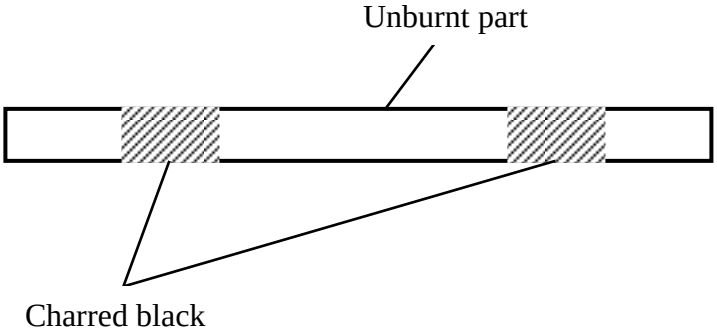
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14. Laboratory results showed the composition of a compound to be 58.81% barium, 13.72%, sulphur and 27.47% Oxygen. Calculate the empirical formula of the compound. Ba=137, S = 32, O = 16. **2marks**

15. The diagram below shows a wooden splint that was placed horizontally across the middle part of a non-luminous flame.



a) Explain the observation made **2marks**

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b) Explain why non-luminous flame is preferred for heating than the luminous flame. **2marks**

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16. $200cm^3$ of oxygen gas took 60 seconds to diffuse through a porous plug. Determine the time taken by $300cm^3$ of sulphur (IV) oxide to diffuse through the same plug under the same conditions.
(O=16, S = 32) **3marks**

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17. Explain why?

i) Both methane and diamond are covalently bonded. Methane is a gas but diamond is a solid with very high melting point. **2marks**

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ii) Ammonia is dissolved in water using an inverted funnel. **1mark**

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18. Explain giving reasons why?

a) Sulphuric acid is not used with marble in the preparation of carbon (IV) oxide **2marks**

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

b) Water cannot be used to distinguish oil fire. **1mark**

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19. A gas occupies $4dm^3$ at -23^0C and 152 mmHg. At what pressure will its volume be halved, if the temperature then is 227^0C.? **2marks**

20. a) Sodium, Magnesium and Aluminium are elements in the periodic table. Explain why aluminium has a higher melting and boiling point than sodium and magnesium. **2marks**

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b) The ionization energy of an atom is strongly influenced by three atomic parameters. State two of these parameters. **2marks**

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

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21. 15cm^3 of a solution containing 2.88g/dm^3 of an alkali XOH completely reacts with 20cm^3 of 0.045M sulphuric acid. Calculate the molarity and relative atomic mass of X present in the alkali. **3marks**

22. Describe how a solid sample of calcium sulphate can be prepared using the following reagents; dilute nitric (v)acid, dilute sulphuric (vi) acid and solid calcium carbonate **4marks**

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23. Crude oil is the main source of organic compounds such as hydrocarbons. The hydrocarbons in the crude oil have to be separated.

a) Name two important hydrocarbons obtained from crude oil. **2marks**

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b) Give the uses of the two hydrocarbons named in (a) above. **2marks**

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24. A hydrocarbon Q was found to decolourise potassium manganate (vii) solution. When two moles of Q were burnt completely six moles of carbon (iv) oxide and six moles of water were formed.

a) Write the structural formula of Q. **1mark**

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b) Name the homologous series to which Q belongs **1mark**

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25. Dilute sulphuric acid was added to a compound X, of magnesium. The solid reacted with the acid to form a colourless solution, Y and a colourless gas Z which formed a white precipitate when bubbled through lime water.

Name:-

(i) Compound X **1mark**

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……..……..

(ii) Solution Y **1mark**

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(iii) Colourless gas Z **1mark**

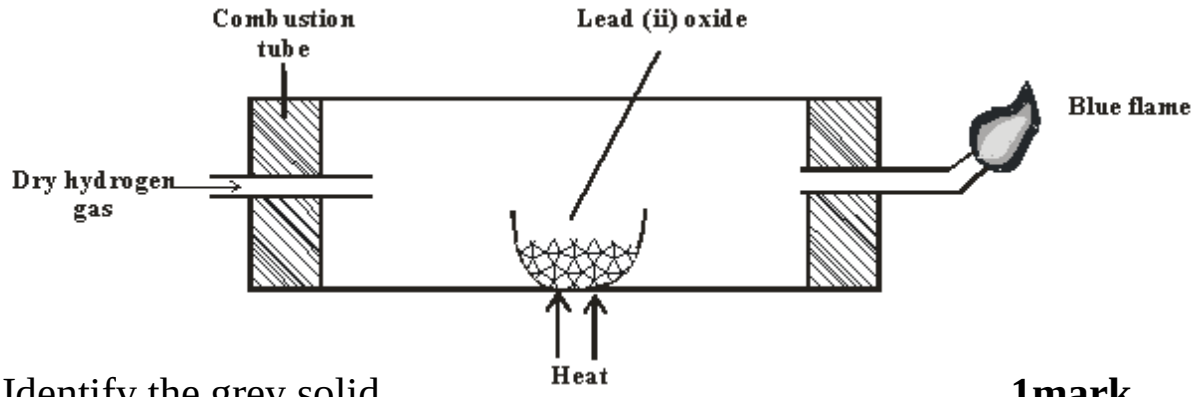
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26. When dry hydrogen gas passed over heated Lead (II) oxide in combustion tube, a grey solid was formed.

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a) Identify the grey solid. **1mark**

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b) Write the equation of the reaction taking place in the combustion tube. **1mark**

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c) Write the equation involving the blue flame. **2marks**

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27. What do (C F C' S) mean? **1mark**

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28.

a) What is meant by the term allotrophy? **1mark**

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b) Explain in terms of structure and bonding why graphite is soft with greasy feeling. **2marks**

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SCHOOL……...

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233/2 CHEMISTRY PAPER 2 (THEORY) TIME: 2 HOURS.

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PRE-MOCK 2 EXAMS

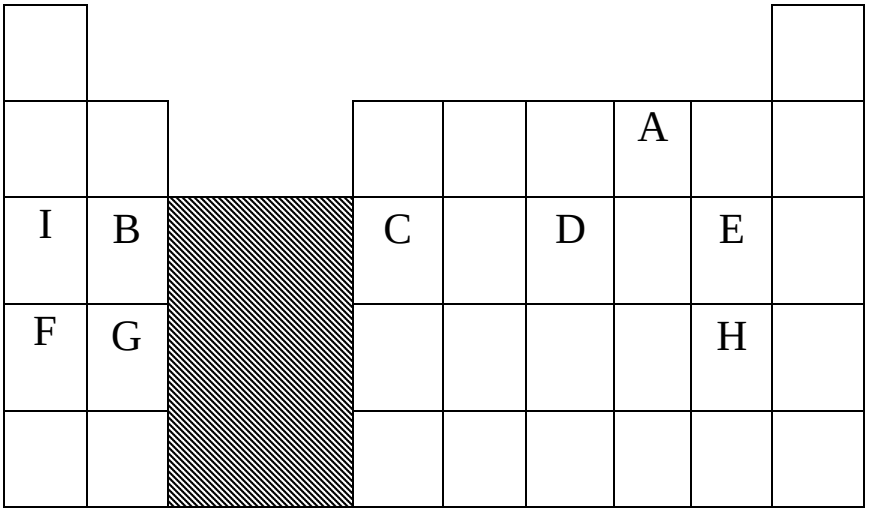
INSTRUCTIONS TO CANDIDATES

- Write your name and index number in the spaces provided above.
- Sign and write the date of exam in the spaces provided above.
- Answer **ALL** the questions in the spaces provided.
- Mathematical tables and silent electronic calculators may be used.
- All working **MUST** be clearly shown where necessary.

FOR EXAMINER'S USE ONLY

Questions	Maximum score	Candidates score
1	13	
2	11	
3	13	
4	10	
5	10	
6	12	
7	11	
Total score	**80**	

1. The grid below shows part of the periodic table. Study it and answer the questions that follow. The letters do not represent the true symbols of the elements.



a) Which element forms an ion of charge - 2? Explain your answer **2marks**

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b) What is the nature of the oxide formed by element C? **1mark**

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c) How does the reactivity of H compare with that of E? Explain.**2marks**

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d) Write the chemical equation for the reaction between B and chlorine?

1mark

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e) Explain how the atomic radii of the following compare; **2marks**

i) F and G

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ii) B and G

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f) The oxides of B and D are separately dissolved in water. State the effect of each product on litmus paper.

2marks

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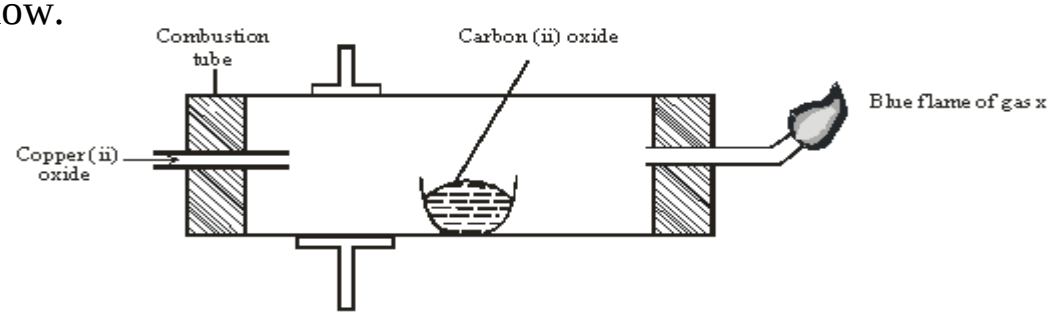
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g) 20cm^3 of a solution of a hydroxide of I completely neutralizes 17.5cm^3 of 0.5M sulphuric (VI) acid. Calculate the concentration in moles/litre of solution of the hydroxide of I **3marks**

2. The diagram below shows an experiment set-up to investigate a property of carbon (ii) oxide. Study it and answer the questions that follow.



a) Name one condition that is missing in the set up that must be present if the experiment to proceed. **1mark**

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b) If the experiment was carried out properly. What observation would be made in the combustion tube? **1mark**

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c) Give an equation for the reaction that occurs in the combustion tube.

1 ½ mark

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d) Give an equation for the reaction that takes place as gas x burns.

1 ½ marks

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e) Why is it necessary to burn gas x? **1mk**

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f) Name the reducing and oxidizing agent. **2marks**

(i) Reducing agent

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(ii) Oxidising agent

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g) Identify any other substance that would have the same effect on copper (ii) oxide as carbon (ii) oxide. **1mark**

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h) What would happen if copper (ii) oxide was replaced with sodium oxide? Explain **2mark**

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3. a) Sulphur occurs naturally in two different forms called allotropes;

(i) What are allotropes? **1mark**

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(ii) The two allotropes of sulphur are stable at different temperatures, as shown in the equation below.

Above 95.5^0C

Rhombic sulphur $\rightleftharpoons$ Monoclinic sulphur

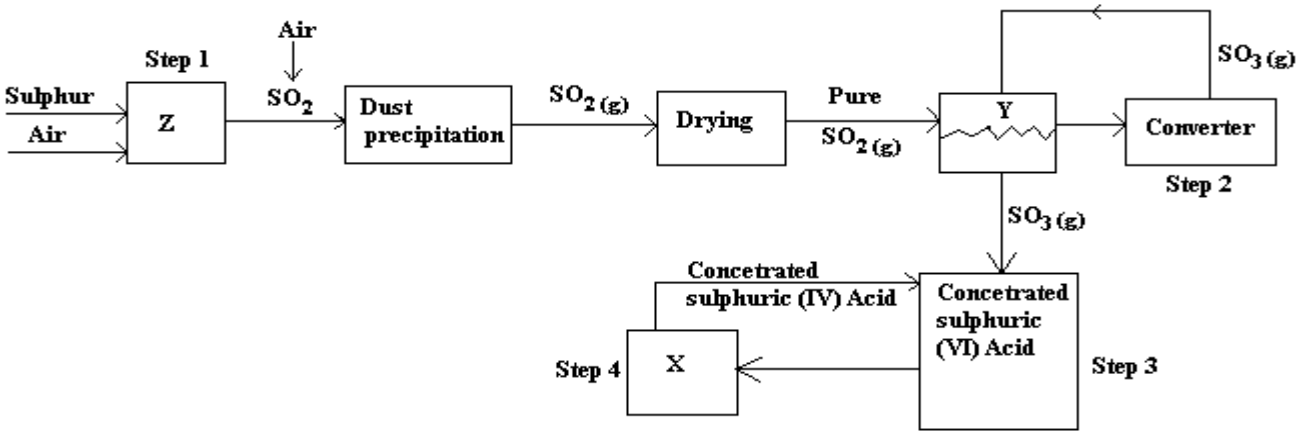
Below 95.5^0C

Give a name to the temperature 95.5^0C **1mark**

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b) Below is a flow chart diagram for the contact process for the manufacture of sulphuric (VI) acid.



(i) Give the name of chambers labeled **1 ½ mark**

X……

Y ……

Z……

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(ii) State the three conditions in the converter. **1 ½ mark**

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(iii) Explain why gases are passed through ; **2marks**

I – The dust precipitator and drying power

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II- The chamber labeled Y

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(iv) Write the balanced equations for the reactions in; **3marks**

Step 2:

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Step 3:

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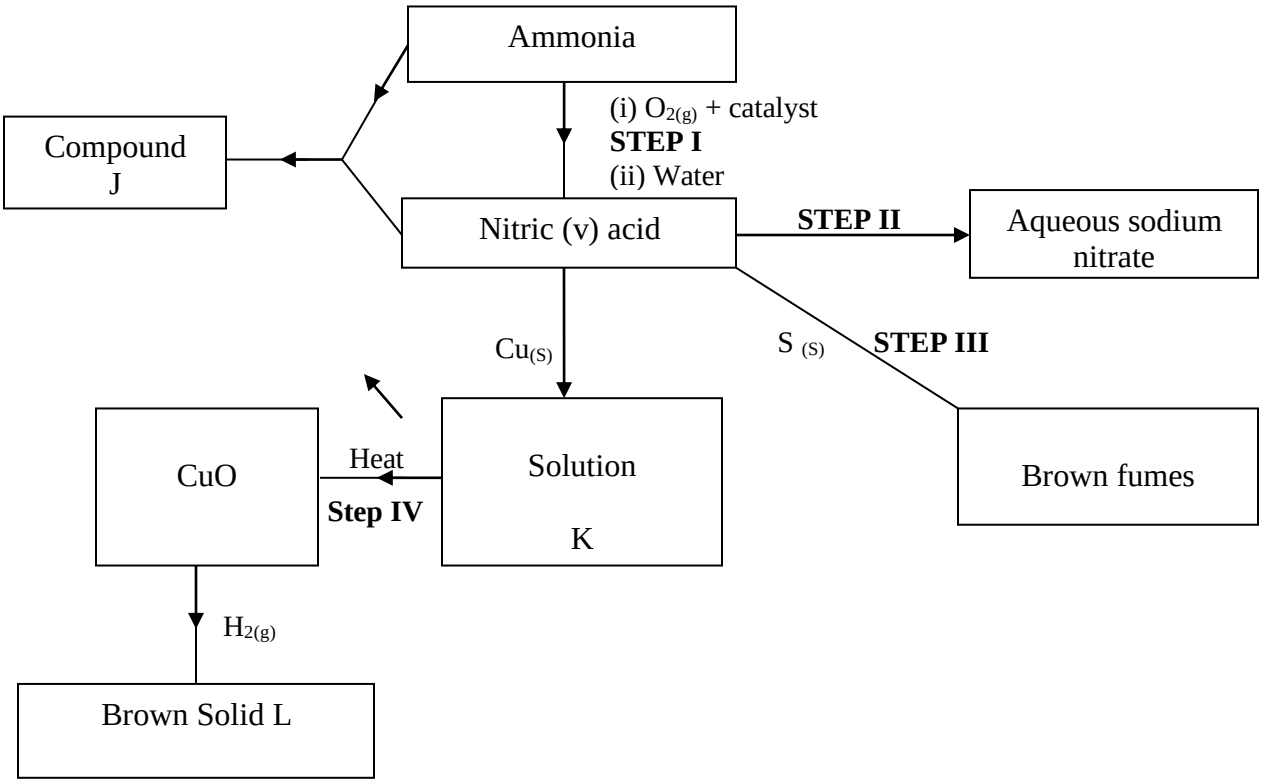
Step 4:

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c) Calculate the volume of sulphur (VI) oxide gas in litres that would be required to produce 178kg of Oleum in step 3. (Molar gas volume at s.t.p.=22.4l, H=1, O=16, S=32) **3marks**

4. a) The scheme below shows various reactions starting with ammonia. Study it and answer the questions that follow.



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(i) List the raw materials used in the manufacturer of ammonia gas. **1mark**

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(ii) What catalyst is used in step I? **1mark**

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(iii) Write an equation for the reaction that occurs between ammonia and oxygen gas in the presence of a catalyst. **1mark**

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(iv) Identify the process is step II? **1mark**

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(v) Using an appropriate equation, explain how the reaction in step III occurs **(1 mark)**

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(vi) What should be added to solution K to form solid L?

(1 mark)

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(vi)

(a) I. Write the formula of compound J.

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II. Calculate the mass of compound J that would contain 14g of nitrogen.

(N=14, O=16, H= 1) **(2marks)**

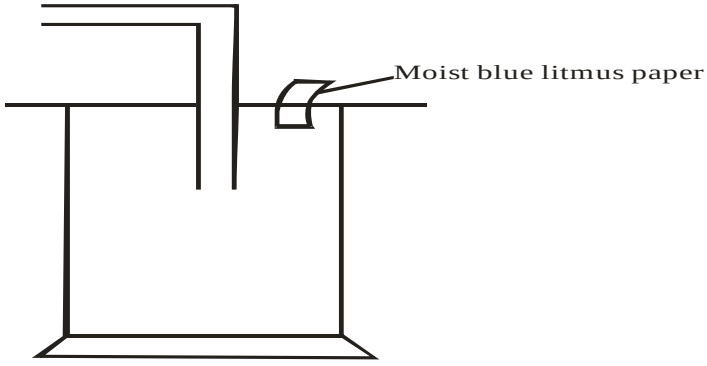
b) Explain the advantage of using ammonium phosphate fertilizer over the other nitrogenous fertilizers. (**1mark)**

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5. Dry chlorine was collected using the set up below.



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a) Name a suitable drying agent for chlorine gas? **1mark**

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b) State one property of chlorine gas which facilitates this method of collection. **1mark**

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c) State the observations on the moist blue litmus paper. **2marks**

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d) Chlorine gas was bubbled through distilled water. With aid of an equation show the formation of chlorine water. **1mark**

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e) Write the formula of the compounds formed when chlorine gas reacts with warm dry phosphorous.

2marks

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f) Chlorine gas is mixed with moist hydrogen sulphide gas, state and explain the observations **2marks**

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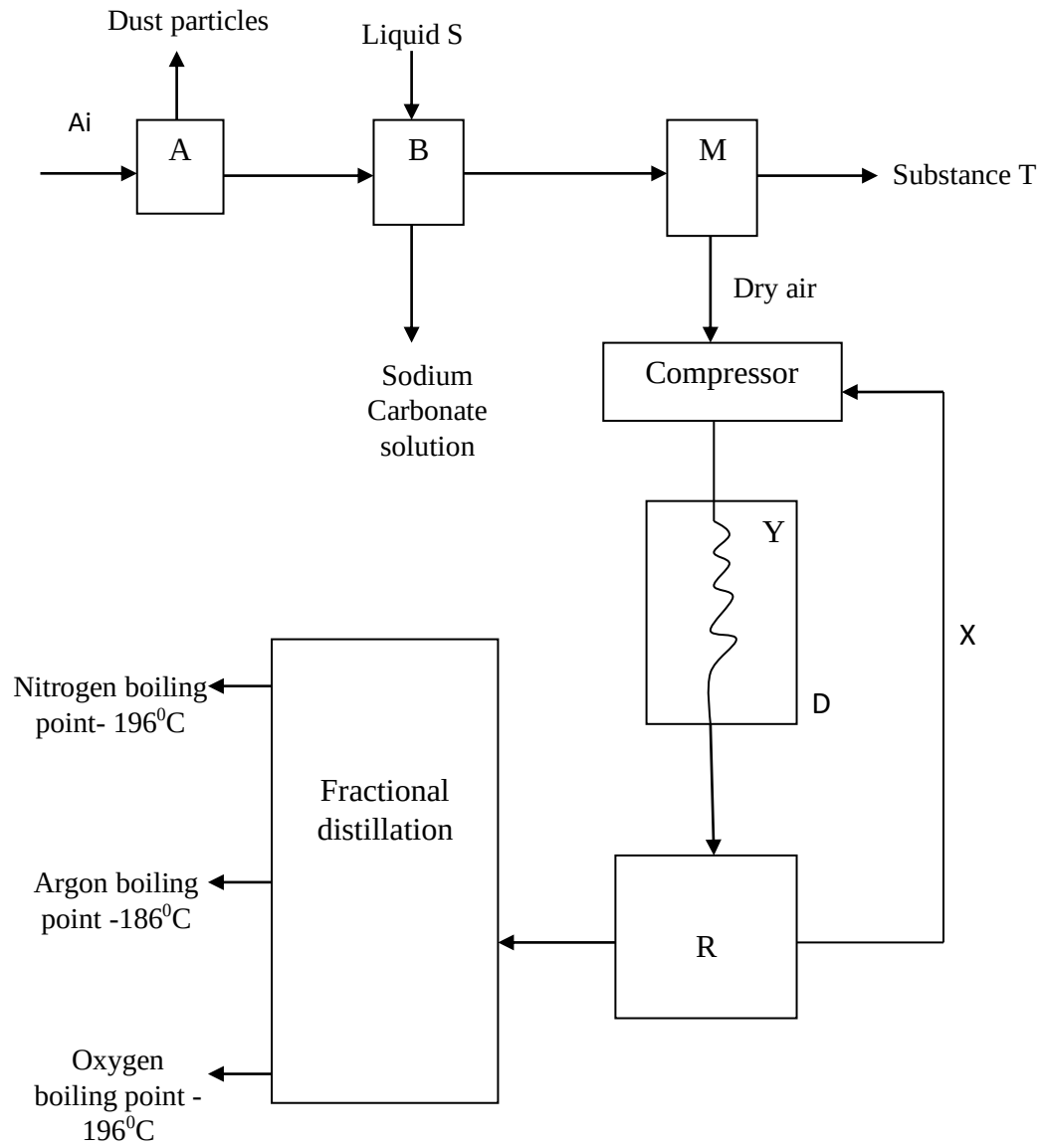
g) Give one use of chlorine gas. **1mark**

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6. Fractional distillation of air is used in the industrial manufacture of oxygen. The diagram below shows the process.



a) What processes are taking place in chamber A,B,M and D **2marks**

A……

B……

M……

D……

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b) Name;

(i) Liquid S

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……..……...

(ii) Substance T

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c) Explain why part Y in chamber D is curved? **1mark**

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d) Give two industrial uses of oxygen gas? **2marks**

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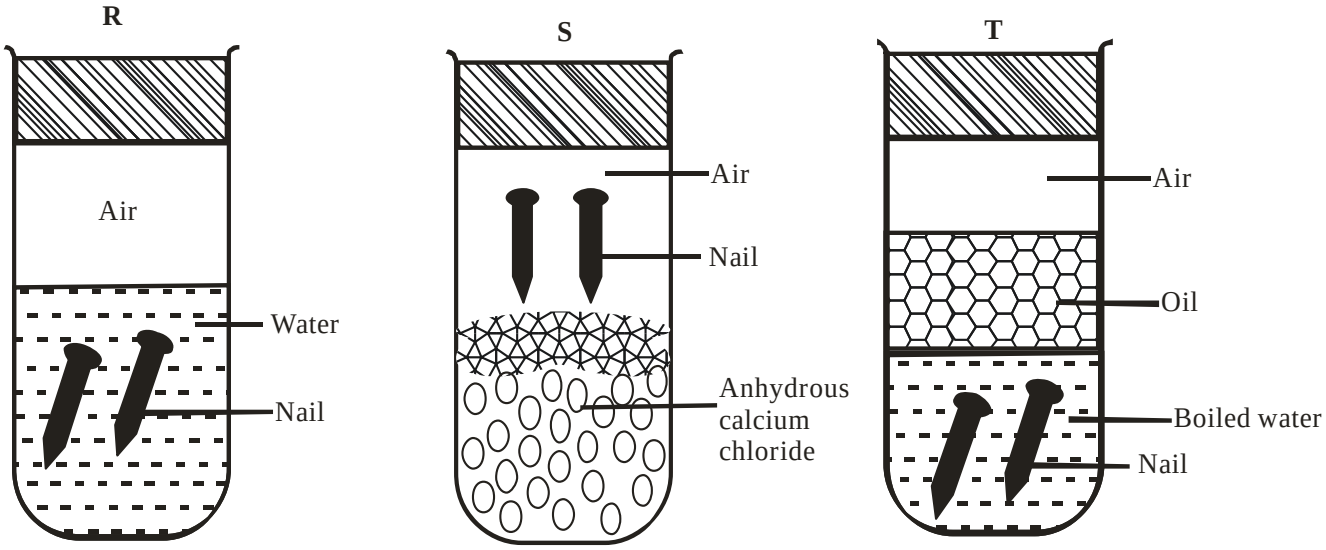
e) In the laboratory preparation of oxygen, manganese (iv) oxide and hydrogen peroxide are used. Write an equation to show how oxygen gas is formed. **1mark**

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f) An investigation was carried out using the set-up below. Study it and answer the questions that follow.



(i) State and explain what will happen in the three test-tubes R, S and T after seven days. **3marks**

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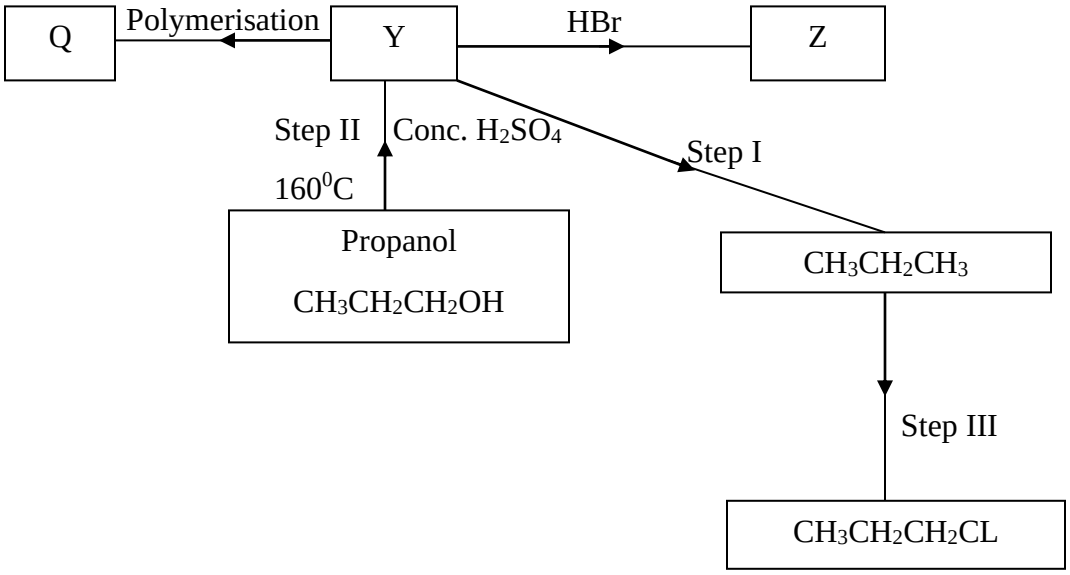
(ii) Give one reason why some metals are electroplated. **1mark**

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7. Below is a scheme of some reactions of propanol. Study it and answer the questions that follow.



(a)State the reagents and conditions required to effect step I **3marks**

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(b) Draw the structural formulae and name product Z. **1mark**

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(c)Name product Q **1mark**

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(d) Explain how product Y can be distinguished from the product formed after step I has taken place. **2marks**

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(e)What name is given to the process in Step II and step III **2marks**

Step II

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Step III

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(f) (i) Define the term hydrocarbon 1mark

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(ii) Draw the structure of 1, 2 – dibromopropane 1mark

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233/3 CHEMISTRY PRACTICAL PAPER 3 TIME: 2¼ HOURS.

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PRE-MOCK 2 EXAMS

INSTRUCTIONS TO CANDIDATES

- Write your name and index number in the spaces provided above.
- Answer **ALL** the questions in the spaces provided.
- You are not allowed to start working with the apparatus for the first 15 minutes of the 2¼ hours allowed time for the paper.
- Use the 15 minutes to read through the question paper and note the chemicals you require
- Mathematical tables and electronic calculators may be used.
- All working **MUST** be clearly shown where necessary.

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Question	Maximum score	Candidate's score
1	17	
2	8	
3	15	
Total score	40	

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1. Solution A is prepared by dissolving 6.3g of the organic acid $H_2C_2O_4.nH_2O$ in water to make a litre of the solution.

   Solution B: 0.1M NaOH solution

   Phenolphthalein indicator

   Clamp and stand

   Burette and pipette.

   You are required to determine the value of n in the organic acid $H_2C_2O_4.nH_2O$

   Procedure.

   Fill the burette with solution A and adjust the volume to zero mark.

Add 2 to 3 drops of phenolphthalein indicator and titrate solution A against solution B until thecolour just permanently changes. Record your results in the table below. Repeat the procedure two more times to obtain concordant results. **4marks**

a)

Titration	**1**	**2**	**3**
Final burette reading (cm^3)			
Initial burette reading (cm^3)			
Volume of solution A used (cm^3)			

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b) Calculate the average volume of solution A used. **1mark**

c) Calculate the moles of sodium hydroxide in the volume of solution B used. **2marks**

d) Given that solution B - Sodium hydroxide and solution A organic acid react in the ration of 2:1, calculate the number of moles of the organic acid –solution A used? **2marks**

e) Calculate the moles of organic acid solution A used per litre of solution **2marks**

f) Calculate the relative formula masses of the organic acid solution A **3marks**

g)Calculate the value of n in $H_2C_2O_4.nH_2O$(H=1, C=12, O=16) **3marks**

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2. You are provided with CBI. Carry out the test below. Write your observation and inferences in the spaces provided.

   a) Using a clean spatula, heat about one third of the solid CBI in a non- luminous Bunsen burner flame.

Observation	Inferences
1mark	**1mark**

   b) Put a half spatula endful of CBI in a test tube. Heat gently and then strongly. Test for any gas produced using litmus papers.

Observation	Inferences
1mark	**1mark**

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c) Put $2cm^3$ of dilute hydrochloric acid into a test tube. Add ¼ endful of CBI into the test tube.

Test for any gas procedure.

Observation	Inferences
2marks	**2marks**

3. You are provided with solid Q, carry out the test below. Record your observations and inferences in the table. Identify any gas (es) evolved. Place all the solid Q provided into boiling tube and add distilled water until the tube is ¼ full. Divide it into five portions.

a) To the 1st portion add ammonia solution drop wise until excess.

Observation	Inferences
1mark	**1mark**

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b) (i) To the 2nd portion add sodium hydroxide solution dropwise until in excess. Keep the resulting
mixture for the next test.

Observation	Inferences
1mark	**1mark**

ii) Warm the preserved mixture from b (i) above

Observation	Inferences
1mark	**1mark**

c) i) To the 3rd portion add silver nitrate solution. Preserve the mixture for the next test.

Observation	Inferences
1mark	**1mark**

ii) To the preserved mixture in c (i) above add diluted nitric acid.

Observation	Inferences
1mark	**1mark**

d) To the 4th portion add dilute Barium nitrate solution followed by dilute nitric acid.

Observation	Inferences
1mark	**1mark**

e) To the 5th portion add 2-3 drops of conc. Nitric acid.

Warm the mixture and allow to cool. Add sodium hydroxide solution dropwise until in excess.

Observation	Inferences
1mark	**1mark**

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451/1 COMPUTER STUDIES PAPER 1 (THEORY)TIME: 2 ½ HOURS

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PRE-MOCK 2 EXAMS

INSTRUCTIONS TO CANDIDATES

- This paper consists of TWO sections A and B
- Answer all questions in section **A**.
- Answer question 16 (Compulsory) and any other **THREE** questions in section **B.**
- All answers should be written in the spaces provided in the question paper

FOR EXAMINER'S USE ONLY.

Section	Question	Candidates Score
A	1 – 15	
B	16	
	17	
	18	
	19	
	20	
Total Score		

SECTION A (40 MARKS)

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Answer **all** questions from this section in the spaces provided

1. List the components of a computer system hardware. (2 **Marks**)

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2. Describe the term key to storage systems (1 **Mark**)

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3. One classification of software is system software

(a) i. What is meant by system software (1 Mark)

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ii. Give one example of system software. (1 Mark)

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(b) i. Name one other software classification (1 Mark)

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ii. Give one example of this type of software (1 Mark)

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4. a. What do you understand by the term database management system? (DBMS)? (1 Mark)

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b. Define the following terms as used in a database. (2 Marks)

i. Primary Key

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ii. Record

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5. Differentiate between COM ports and LPT ports (2 Marks)

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6. List three factors to consider when deciding on the choice of electronic data processing method (3 Marks)

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7. Ventilation is an important practice in the computer lab because it enhances proper circulation of air. Outline three ways in which air is regulated in the computer room. (3 Marks)

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8. What do the following control measures against computer crime involve? (4 Marks)

a. Audit trail

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b. Data encryption

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c. Log files

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d. Passwords

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9. Highlight the use of find and replace features in word processors.
(2 Marks)

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10. Explain why two's complement is preferred to one's complement in computing. (1 mark)

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11. Computers have evolved through a number of generations. List any three characteristics of the first generation of computers. (3 marks)

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12. List four formatting techniques used in Ms excel (2 Marks)

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13. List four examples of flat panel displays. (2 Marks)

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14. Explain the following terms as used in the word processing.
(4 Marks)

a. Indenting

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b. Alignment

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c. Footnote

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d. Endnote

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15. Describe the role of an operating system in

i. Memory management

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ii. Job scheduling

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iii. Error handling

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iv. Resource control

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SECTION B (60 MARKS)

16. a. State the three basic types of program control structures.

(3 Marks)

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b. Draw a flowchart which will simulate the processing of student's report. The simulation should be such that the user repeatedly inputs marks per subject for six subjects using a looping control structure. The computer processes the total marks and mean score of the student.

NOTE:

1. It is assumed that the student does six subjects

2. The output required are: Average score and total marks

c. Differentiate between analogue and digital data. (2 Marks)

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d. Outline three advantages of using computers for data processing over other types of office and business equipment.

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17. a. Convert the following numbers to their decimal equivalent. (6 Marks)

i. 11.011_2

ii. 12.15_8

iii. $A3.3/_6$

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b. Outline four ways in which data integrity may be maintained.
(4 Marks)

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c. Explain four advantages of using questionnaires as a fact finding tool.
(4 Marks)

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d. What is the role of a recycle bin? (1 Mark)

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18. a. Masai teacher's college has decided to automate its library for effective services to the students. Identify four methods they are likely to use to gather information during system development. (4 Marks)

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b. What do the following terms mean in relation to internet? (4 Marks)

i. Downloading

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ii. Hyperlink

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iii. Web browsers

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(iv) Internet service providers

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c. Differentiate between sorting and filtering as used in electronic spreadsheet program (2 Marks)

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d. What do the following terms mean

i. Spam mail

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ii. Disk

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iii. Onboard moderm

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e. What does the term WIMP mean as used in computing?

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19. (a) Define a database model (1Mark)

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b. List four advantages of using database systems (2marks)

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c. In a database system, data integrity ensures the correctness and completeness of the data in the database. Differentiate the following types of integrity constraints:

i. Validity integrity (1mark)

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ii. Entity integrity (1mark)

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iii. Referential integrity (1mark)

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d. Briefly describe the three database models (3 Marks)

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e. Using diagrams describe the following three types of relationships. (3Marks)

i. One – to – one

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ii. One – to – many

iii. Many – to – many

f. File organization refers to the arrangement of records on secondary storage. Briefly describe the following file organization methods. (3 Marks)

i. Serial

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ii. Sequential

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iii. Random

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20. a. Your School has decided to replace its library control system. The current system was implemented ten years ago but has restricted reporting facilities and has a text – based interface. The school intends to replace the old system with a new computerized system, and is now considering both 'parallel running ' and 'direct changeover'

i. Briefly explain the terms parallel running and direct change over as used in system implementation. (2 Marks)

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ii. Give two disadvantages of direct changeover overparallel running (1 Marks)

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iii. Identify two main risks of direct changeover during system implementation (2 Marks)

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iv. Mention any two advantages of running both the manual system and the computerized system simultaneously (2 Marks)

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b. i. What is a website? (2 marks)

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ii. Name three facilities that are needed to connect to the internet. (3 Marks)

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c. State three ways students can benefit by having internet in a school (3 Marks)

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451/2 COMPUTER STUDIES PAPER 2 (PRACTICAL)TIME: 2½ HOURS

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PRE-MOCK 2 EXAMS

INSTRUCTIONS TO CANDIDATES

(a) Type your name and index number at the top right hand corner of each print out

(b) Write your name and index number on the diskette/CD-R provided

(c) Write the name and version of software used in each question on the answer sheet

(d) Answer **ALL** the questions

(e) Passwords **should not be used** while saving in the diskette/CD-R

(f) All answers **MUST** be saved in the diskette/CD-R

(g) Make print out of answers on the answer sheet provided

FOR EXAMINER'S USE ONLY

Question	Candidate's score
1	
2	
Total score	

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QUESTION ONE

1. (a) Assume you are the Director AMACO INSURANCE COMPANY LTD you want to update your customers on the current dues as per the insurance cover each client have. Use mail merge to write an official letter to **FIVE CUSTOMERS** informing them of this. Your letter must meet the following conditions.

i. Must have the header at the top with the company's name as the letter head (2mks)

ii. Must have footer at the bottom indicating the current date and time, left aligned. (2mks)

iii. The insurance will cover the vehicles and each client due, car number will not be the same. (2mks)

iv The address lines will include Title

First name

Last name

Address

Country

Car no plate

Amount due (14mks)

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(b) (i) Prepare the table below in Ms word and then apply formatting as follows and save as MSS (8 mks)

MEYSA SYSTEMS AND SERVICES					
Technical information			**Action taken**		
Machine	Problems found		Diagnostic	Solutions	
Compaq / evo	hardwar	software	Memory video	1	Replacing vga
6522	☐	☐	Faulty	2	Installing drivers
Desktop	No display		VGA CARD	3	Rebooting

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(ii) Format the table with border line colour red and choose double line (5mks)

(iii) Shade the table to tight green colour for the first two rows and light blue shading for therest of the table (5mks)

(c) Type the paragraph below, save it as computer and apply formatting as stated (4mks)

Computer Program is a set of instructions that direct a computer to perform some processing function or combination of functions. For the instructions to be carried out a computer must execute a program, that is, the computer reads the program, and then follows the steps encoded in the program in a precise order until completion. A program can be executed many different times, with each execution yielding a potentially different result depending upon the options and data that the user gives the computer.

(i) The text "computer program" should be the title, change its case to upper case font TREBUCHET

MS size 16, colour green (2mks)

(ii). Find the word 'instructions' look for its meaning in the computer dictionary and finally replacethe wordwith new meaning from the dictionary (3mks)

(iii). Format the whole paragraph to justified alignment shading colour light green (3mks)

2.

NAME	BASIC PAY	DEPARTME	AGE	STATUS
Peter	15000	Computer	34	Single
John	17000	Computer	44	Married
Kamau	19000	Finance	33	Divorced
Charles	21000	Research	33	Single
Johns	23000	Research	25	Single
Thomas	25000	Computer	26	Married
Ann	27000	Finance	28	Married
Susan	29000	Finance	29	Divorced
Tina	31000	Research	24	Divorced
Andrew	33000	Computer	40	Single
Hardy	35000	Finance	20	Married
Njeri	37000	Finance	43	Single
Kimani	10000	Research	15	Single
Silamtoi	15000	Finance	35	Divorced
Tina	35000	Computer	25	Married
Moses	59000	Research	33	Single
Miriam	70000	Finance	56	Divorced
Maurice	32876	Computer	70	Divorced
Alphie	43876	Research	98	Divorced
Albert	48098	Research.	32	Single
Langat	6500	Computer	12	Single
Phenny	29000	Finance	70	Single
Hilda	32000	Computer	13	Married

Create data base called personnel and create a table named department (5 mks)

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(b) Create queries to determine (save each query using the alphabet numbers below)

i. Number of people with basic salary greater than 32,000=(5 mks)

ii. Number of people with basic salary less than 45,000= AND come from computerdepartment(5mks)

iii. Names of people who are either married or single. (4 mks)

iv. Those whose salary fall between 25,000/= and 50,000= (3mks)

v. Those whose name begin with letter M or end in letter S (3 mks)

(c) (i) Create a query to compute the new salary if there is an increment of basic pay by 50% (7mks)

(ii) Filter using query those who earn above 33000/= and aged between 39 and 70 (5 mks)

(d) (i) Create a form using form wizard using the Departmental table above. (3mks)

(ii) Create a form in design view using the departmental table above on the form calculate the total basic salary for the whole table, add current date and time on the form header(5 mks)

(iii) Create a report for THE ABOVE table using design view and print. (5mks)

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NAME ……..……

SCHOOL……...

DATE ……INDEX NO. ……SIGN……..…

313/1

CHRISTIAN RELIGIOUS EDUCATION

PAPER 1

TIME: 2 ½ HOURS

AMOBI PUBLISHERS GROUP OF EXAMINERS

PRE-MOCK 2 EXAMS

INSTRUCTIONS TO CANDIDATES

Answer **any five** of the given questions.

All answers **must be** written in the Answer Booklet provided.

All questions carry equal marks.

1. a) Give reasons why C.R.E as a subject is incorporated into the curriculum in Kenyanschools today. (8 **Marks**)

b) Explain the meaning of the expression, 'the Bible is the Word of God'. (5 **Marks**)

c) On what occasions do Christians use the Bible? (7**Marks**)

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2. a) Briefly explain the significance of the events that took place on the night of the Passover. (6 **Marks**)

b) What qualities did Moses show during his call? (9 **Marks**)

c) What lessons do Christians learn from the call of Moses?(5 **Marks**)

3. a) Give reasons why the Israelites asked Samuel to appoint a king for them. (7**Marks**)

b) Show reasons why Elijah was un-compromising in his attitude to Baal worship. (8 **Marks**)

c) Why should Christians fight against the spread of devil worship in the society? (5 **Marks**)

4. a) What were the characteristics of true prophets in the Old Testament? (7 **Marks**)

b) Give reasons why Amos proclaimed God's judgment on Israel and Judah? (6 **Marks**)

c) What lessons do Christians learn from Amos' teachings on judgment? (7**Marks**)

5. **a)** What responses to God's call did Jeremiah exhibit in Jeremiah 4:4 – 19? (5 **Marks**)

   b) Explain Jeremiah's teaching on the new covenant. (6 **Marks**)

   c) How should a Christian respond when offered a job in a hardship area? (9 **Marks**)

6. **a)** Give the roles of ancestors in Traditional African Society. (9 **Marks**)

   b) On what occasion were sacrifices offered in Traditional African Society? (6 **Marks**)

   c) What aspects of traditional religion have been integrated into the Christian faith? (5 **Marks**)

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NAME ……..……

SCHOOL……...

DATE ……INDEX NO. ……SIGN……...…

313/2

CHRISTIAN RELIGIOUS EDUCATION

PAPER 2

TIME: 2 ½ HOURS

AMOBI PUBLISHERS GROUP OF EXAMINERS
PRE-MOCK 2 EXAMS

INSTRUCTIONS TO CANDIDATES

Answer **any five** of the given questions.

All answers **must be** written in the Answer Booklet provided.

All questions carry equal marks.

1. a) Give the characteristics of the suffering servant of Yahweh according to prophet Isaiah (Isaiah 53). (8 **Marks**)

b) In what ways did Jesus fulfill prophesies given to King David by Prophet Nathan? (5 **Marks**)

c) What is the relevance of God's promises to David to Christians today? (5 **Marks**)

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

2. a) Mention ways in which John the Baptist prepared the way for the Messiah. (10 **Mark**)

b) State reasons why Jesus was rejected in Nazareth. (4 **Marks**)

c) In what ways are church leaders put to test today? (6 **Marks**)

3. a) Give examples from the life and Ministry of Jesus which show that He promotedsocial equality. (8 **Marks**)

b) Explain how the disciples reacted to the use of parables in Jesus' teachings. (6 **Marks**)

c) What activities does the church engage in to demonstrate love for others? (6 **Marks**)

4. a) Relate the message of Peter on the Day of Pentecost. (10 **Marks**)

b) In what ways did the coming of the Holy Spirit transform the life of Peter on the Day of Pentecost? (5 **Marks**)

c) What activities of the church in Kenya show that the Holy Spirit is working amongthem? (5 **Marks**)

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

5. **a)** From the teachings of Jesus, what role would the Holy Spirit play? (8 **Marks**)

   b) Describe the fruits of the Holy Spirit according to Galatians 5: 22 – 26. (6 **Marks**)

   c) In what ways do Christians demonstrate the fruit of generosity? (6 **Marks**)

6. **a)** Explain how the unity of believers is expressed in the symbol of the body of Christ. (6 **Marks**)

   b) State teachings of Peter concerning the people of God. (1st Peter 2:9 - 10) (6 **Marks**)

   c) How do churches discipline those who cause disunity in the church today? (6 **Marks**)

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NAME ……..……

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101/1

ENGLISH PAPER 1 (FUNCTIONAL SKILLS) TIME: 2 HOURS

AMOBI PUBLISHERS GROUP OF EXAMINERS

PRE-MOCK 2 EXAMS

INSTRUCTIONS TO CANDIDATES

Write your name and admission number in the spaces provided above

Answer **ALL** the questions in this paper in the spaces provided

FOR EXAMINER'S USE ONLY

QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
1	20	
2	10	
3	30	
TOTAL SCORE	60	

Question 1

FUNCTIONAL WRITING(20 MARKS)

A friend has written to say that he will be traveling to another country via Kenya. He hopes that you can host him for a day in your house. However, something very important comes up the material day and you have to be away. You leave the key to your house with a neighbour who will give it to your visitor.

Write a letter to that friend explaining the situation. Also assist him prepare dinner in your absence.

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Question 2

CLOZE TEST (10 MARKS)

The African business climate **(1)**……. unpredictable. Many contracts are difficult**(2)** …….. enforce due to inefficient judiciary**(3)** …….. high level corruption. Africa is**(4)**……... by aid money from wealthy nations. To cover**(5)** ……..for this fact, developed countries media address the corruption issue by implying that African leadership is**(6)** ……..….. corrupt! Corruption is not an individual**(7)** ……. It is a process; a systematic issue that can only**(8)** …….. addressed by discouraging the incentive behind it. Part of the **(9)**……. is the developed nation willingness to bank all the stolen**(10)** ……..….. from Africa.

Question 3

ORAL SKILLS (30 MARKS)

A. Read the following poem and then answer the questions that follow

Happy Baby

Her lips suckle the nipples

Milk bubbles, foams and ripples

Little hands up in the air

Catch on the mother's hair

Sweet sensation rises in pressure

Tiny legs kick pleasure

Sleep comes gently and strong

Sleep whispers softly and long

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

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(ii) Give and illustrate two oral features of style. (4 **Marks**)

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(iii) Which two words would you stress in line 2, and why? (2 **Marks**)

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B. For each of the following words, construct two sentences to bring out the difference in meaning. Do not change the form of the word. (4 **Marks**)

(i) Produce

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(ii) Beat

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C. Suppose you are reciting a solo verse to a big audience, what problems are you likely to encounter? (3 **Marks**)

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D. Identify and underline the word that is pronounced different in each of the following set. (5 **Marks**)

a) Sew Sue Sow

b) Hair Air Heir

c) Hard Heard Herd

d) Fort Forty Fought

e) Cause Coarse Course

E. Complete the following dialogue with the most suitable expressions.

(10 **Marks**)

You just witnessed an accident. A matatu rammed into a lorry. Many passengers have been seriously injured.

Matatu driver: Is there anyone here with a mobile phone? We have to call the police immediately.

You:

……

……

……..**(1 Mark)**

Matatu driver: Can you please call the police station and inform them about theaccident?

You:

……

……

…….(1 **Mark**)

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Police officer: Yes. This is Pangani Police Station. Constable Mwania speaking. CanI help you?

You: Yes please. There has been a terrible accident.

Police officer: May I know who is calling please?

You:

……

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……..... (2 **marks**)

Police officer: Where has the accident taken place?

You: On Gen. Waruinge Street, at the bumps next to Pumwani SecondarySchool.

Police officer: What happened?

You:

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(3 **Marks**)

Police officer: Really? Are there any casualties?

You:

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(2 **Marks)**

Police officer: Don't worry, we will be there as soon as possible. Meanwhile, I will call the ambulance and also alert Kenyatta Hospital to be ready for casualties. Thank you very much master Leon for calling.

You:

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(1 **Mark**)

NAME ……..……

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DATE ……INDEX NO. ……SIGN……..…

101/2 **ENGLISH PAPER 2** (Comprehension, Literary appreciation & Grammar)

TIME: 2½ HOURS

AMOBI PUBLISHERS GROUP OF EXAMINERS

PRE-MOCK 2 EXAMS

INSTRUCTIONS TO CANDIDATES

- Write your name and index number in the spaces provided.
- Answer all the questions in the question paper
- All your answers must be written in the spaces provided in this question paper.

FOR EXAMINER'S USE ONLY

Question	Maximum Score	Candidate's Score
1		
2		
3		
4		
TOTAL SCORE		

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1. **Read the following passage and answer the questions that follow.**

At length the air began to grow grey with light, then swift golden arrows came slashing across the snow, and at last the glorious sun peeped up above the lava wall and looked upon – frozen forms and upon Vent Rogel, sitting there among us stone dead. No wonder his back had felt cold, poor fellow. He had died when I heard him sigh, and was now almost frozen stiff. Shocked beyond measure we dragged ourselves from the corpse (strange, the horror we all have of the companionship of a dead body), and left it still sitting there with its arms clasped round its knees. By this time the sunlight was pouring its cold rays (for here they were cold) straight in at the mouth of the cave. Suddenly I heard an exclamation of fear from someone, and turned my head down the cave.

And this is what I saw. Sitting at the end of it, for it was more than twenty feet long, was another form, of which the head rested on the chest and the long arms hung down. I stared at it, and saw that it too was a dead man, and what was more, a white man.

The others saw it too, and the sight proved too much for our shattered nerves, one and all we scrambled out of the cave as fast as our half-frozen

limbs would allow. Outside the cave, we halted, feeling rather foolish "I am going back'" said Sir Henry. "Why?" asked Good.

"Because it has struck me that – what we saw – may be my brother. This was a new idea, and we re-entered the cave to put it to the proof. After the bright light outside, our eyes, weak as they were with staring at the snow, could not for a while pierce the glooms of the cave. Presently however we grew accustomed to the semi-darkness, and advanced on the dead form, Sir Henry knelt down and peered into its face

"Thank God", he said, with a sigh of relief, "it is not my brother". Then I went and looked. The corpse was that of a tall man with aquiline features, grizzled hair, and a long black moustache, the skin was perfectly yellow, and stretched tightly over the bones. Round the neck hung a yellow ivory crucifix. The corpse was frozen perfectly stiff.

Who on earth can it be? Said I. "Can't guess?"

asked Good. I shook my head. 'Why, the old

Don Jose da Silvestra, of course who else?"

"Impossible, ' I gasped, "He died three hundred years ago,"

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"And what is there to prevent his lasting for three hundred years in this atmosphere. I should like to know?" asked Good. "If only the air is cold enough, flesh and blood will keep fresh forever, and Heaven knows it is cold enough here. The sun never gets in here, no animal comes here to tear or destroy and no doubt his slave of whom he speaks on the map took off his clothes and left him. He could not have buried him alone. "Look here he went on, stooping down and picking up a queer-shaped bone scraped at the end into a sharp point, "here is the "clef-bone" that he used to draw the map". We gazed astonished, for a moment forgetting our own miseries, at this extraordinary and, as it seemed to us, semi miraculous sight.

'Ay' said Sir Henry, and here is where he got his ink from, and he pointed to a small wound on the dead man's left arm.

'Did ever man see such a thing before?'

There was no longer any doubt about the matter, there he sat, the dead man, whose directions, written some ten generations ago, had led us to this spot. There in my own hand was the rude pen with which he had written them, and there round his neck was the crucifix his dying lips had kissed.

Questions

(a) From your reading of the passage how can you tell where the man spent the night (2mks)

_____

_____

_____

_____

(b) How can you tell that the writer had been together with Vent Rogel? (2mks)

_____

_____

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_____

(c) What caused the state of excitement or fear? (1mk)

_____

_____

_____

(d) What hindered them from rushing out fast? (2mks)

_____

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(e) How according to the passage did the people know about the stare of the dead man (2mks)

_____

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_____

(f) Identify and explain the significance of the figure of speech employed in paragraph one (3mks)

_____

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(g) Did the man ever see such a thing before? (Re-write the sentence beginning). He …….. (1mk)

_____

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_____

(h) Give one synonym for the word 'directions' as it is used in the passage. (1mk)

_____

_____

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(i) What evidence in the passage suggests why the body of Dan Jose da Silvestra remained intact for ten generations? (2mks)

_____

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_____

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

i. shattered nerves

_____

_____

_____

ii. clasped

_____

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_____

iii. accustomed

_____

_____

_____

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iv. grizzled

_____

_____

_____

A DOLLS HOUSE

Read the following excerpts and answer the questions that follow

Nora: (*jumping up and going to him*) oh, dear, nice Doctor Rank, I never meant that at all.

But surely you can understand that being with Torvald is a little like being with Papa – (*enter MAID from the hall*)

Maid: if you please, ma'am. (*Whispers and hands her a card*) **Nora**: (*glancing at the card*) oh! (*Puts it into her pocket*) **Rank**: is there anything wrong?

Nora: No, no, not in the least. It is only something – it is my new dress – **Rank:** what? Your dress is lying there.

Nora: Oh, yes, that one: but this is another. I ordered it. Torvald mustn't know about it – **Rank**: Oho! Then was the great secret.

Nora: Of course. Just go in to him: he is sitting in the inner room. Keep him as long as – **Rank**: Make our mind easy; I won't let him escape (*goes into HELMER'S room*) **Nora**: (*to the MAID*) And he is

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standing waiting in the kitchen? **Maid**: Yes; he came up the back stairs.

Nora: But didn't you tell him no one was

in? **Maid**: Yes, but it was no good.

Nora: He won't go away?

Maid: No; he says he won't until he has seen you, ma'am.

2

Nora: Well, let him come in – but quietly. Helen you mustn't say anything about it to anyone. It is a surprise for my husband.

Maid: Yes, ma'am, I quite understand. (*exit*)

Nora: This dreadful thing is going to happen! It will happen in spite of me! No, no, no, it can't happen – it shan't happen!

QUESTION (25 marks)

a) Place this excerpt in its immediate context (3 mks)

_____

_____

_____

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b) Indentify and illustrate the character trait of the following characters (4 mks)

i)Rank ii)Nora

c) Who is in the kitchen and why has he come? (3mks)

d) Identify and illustrate the dominant theme in the excerpt. (2mks)

e) "…… being with Torvald is a little like being with papa" what does Nora mean by this statement? (2mks)

f) Explain an incidence of dramatic irony from the excerpt. (2mks)

g) Why is Nora quick to usher Dr. Rank out of the room? (2 mks)

2. POETRY

Read the poem below and answer the questions that follow.

THE BREWING NIGHT

It was that memorable night when I heard it
Yes, I heard it all
That night sleep deserted me,
Mocked at me and tantalized me,
So I lay awake, sharp in all my senses.
It was long past midnight:
Time dragged on, the clock chime;
The dog wouldn't bark, nor the baby cry;
It was a moonless and windless night;
The whole universe seemed to stagnate
In dark, dreary, dead slumber.
What was amiss? I knew not.

The dead quietness and solitude
Seemed to be eternal, but
Waves of babbling and muttering
Began to trickle through the streets;
A distant roaring of heavy trucks filled the air,
Hurried footsteps eroded through the street.

What was a miss? I knew not.

I pulled my curtain
And there I saw it all
Heavy boots thick uniforms and solid helmets
Dimly discernible under the pale street lamp
The atmosphere stood stiff and solid with
Brawny- faced and clenched –teeth determination

The night had pulsed with passion high and wild;
The streets were stained with new portraits framed;
The wheel changed hands and new plans were filed.
The morning saw the country strangely dresses
And everyone attended the rally.
To hear the eloquence from a strange face,
And everyone quietly nodded and said, 'yes'

(By Yusuf O. Kassam, in Poems from East Africa.)

Questions

(a) Explain what the poem is about. (3 mks)

_____

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(b) In what ways was the night described in the poem peculiar? (2 mks)

_____

_____

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(c) What was a miss? I knew not. (rewrite as one sentence beginning I did……) (2 mks)

_____

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_____

(d) Paraphrase in one sentence what the persona saw when he or she pulled the curtain to see. (1 mk)

_____

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_____

(e) What is the significance of stanza two? (3 mks)

_____

_____

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(f) Identify and explain any one personification in the poem. (2 mks)

(g) Explain in your own words what happens in the last stanza. (5 mks)

(h) Explain the meaning of the title. (2 mks)

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4. **GRAMMAR**

(a) **Fill in the blank spaces with most appropriate words (3mks)**

i. My uncle, _____ I am sure you remember, flew to Britain yesterday.

ii. The Principal, _____ is out at the moment, will see you when he comes back.

iii. _____ of the students is brighter?

(b) **Rewrite the following sentences according to the instructions after each. (2mks)**

i. He was the wisest man (Rewrite using "wiser")

_____

_____

_____

ii. There is no excuse for rudeness. (Rewrite to end with 'exclusable')

_____

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_____

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(c) **Fill in the blank spaces below with the correct form of the verb in brackets** **(3mks)**

i. The team was _____ for coming late (qualify)

ii. They were _____ attacked by the gangsters (vicious)

iii. The _____ of the matter brought the president to their county. (grave)

(d) **Use the correct collective nouns in the following sentences** **(3mks)**

i. The evening party was beautiful by the _____ of colours.

ii. The guest of honour was given a _____ of flowers.

iii. She put a _____ of salt in her food.

(e) **Complete the sentences below by changing the verb in brackets, in each case, into the form indicated in the instructions after each.**

i. _____ (lie) to your parents is a bad practice. (infinitive)

ii. John considers _____ (work) very seriously. (gerund)

iii. Farida expected _____ find everyone settled. (infinitive)

iv. _____(prefer) tilapia to mudfish is understandable in your circumstances (gerund)

NAME ……..……

SCHOOL……...

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AMOBI PUBLISHERS GROUP OF EXAMINERS

PRE-MOCK 2 EXAMS

ENGLISH

PAPER 3

(CREATIVE WRITING AND ESSAYS BASED ON SET BOOKS)

1. Imaginative composition (Compulsory)

a) Write a composition to begin with the following: -

"Looking up the sky, I knew everything would be fine……" (20mks)

Or

b) Write a composition ending with the following words: -

"….. That was the day I learnt the truth in the saying" life is not a bed of roses." (20mks)

2. BLOSSOMS

Will power and determination always triumph over obstacles. Using character in the book Blossoms of the Savannah,

3. THE OPTIOANL SET TEXTS

Answer any One of the following three questions. (20 mks)

EITHER

(a) The Novel

John Steinbeck, The Pearl.

Most people equate fortune to happiness which is not the case. Elucidate the truth of this statement drawing illustrations from the Pearl by John Steinbeck.

Or

(b) The short story **(20 mks)**

Memories We Lost and other stories

"An eye for an eye can only make the whole world blind" Paying close attention to Mariatu Kamara's story The President, Show how true this assertion is. **OR**

(c)Drama **Inheritance, David Mulwa** **(20 mks)**

"Lacuna represents the evil that bedevils our leaders" Write an eassy to justify this using inheritance by David Mulwa

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NAME ……..……

SCHOOL……...

DATE ……INDEX NO. ……SIGN……...…

AMOBI PUBLISHERS GROUP OF EXAMINERS
PRE-MOCK 2 EXAMS

312/ 1

GEOGRAPHY

Paper 1

2 ¾ Hours

INSTRUCTION TO CANDIDATES

This paper consists of **two** sections **A&B.**

Answer **ALL** questions in section **A**. In section **B** Answer **QUESTION 6** and **ANY OTHER TWO** questions.

All answers must be written in the answer sheets provided.

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SECTION A

Answer ALL questions in this section.

1. (a) Define weather **(2marks)**

   (b) State five factors considered when siting a weather station.

   (5marks)

2. (a) State two ways that make it possible for geographers to study the earth's interior. **(2marks)**

   (b) State 3 changes that may occur in a rock after it has undergone metamorphism. **(3marks)**

3. (a) Differentiate between folding and faulting. **(2marks)**

   (b) Citing an example on each period, state 4 orogenesisperiods in fold mountain formation. **(4marks)**

4. (a) Differentiate between a spring and a well. **(2marks)**

   (b) State three ways by which springs develop. **(3marks)**

5. Give two ways in which mulching improves soil. **(2marks)**

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SECTION B

Answer ***question 6*** and ***any other two*** questions from this section

6. Study the map of Homabay (1:50,000) sheet 129/2 provided. Answer the following questions.

   (a)(i) Calculate the area of the part of Olambwe Valley National Reserve shown on the map.

   (Give your answer in square kilometers). **(2marks)**

   (ii) What is the length of the Homa Bay municipality boundary?

   (2marks)

   (iii) Give six figure grid reference for the secondary trigonometric section on the Ruri Hills. **(2marks)**

   (iv) Draw a rectangle that measures 10cm by 15cm to represent the area enclosed by Eastings 51 and 59 and Northings 33 and 45. On it mark and name the following features.

   - Lake Victoria
   - Ranyambala forests
   - Secondary trigonometric station
   - River Ogongo **(5marks)**

   (b) Using evidence from the map, state three functions of Homabay town **(3marks)**

   (c)(i) Name three types of vegetation shown on the map. **(3marks)**

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(ii) Identify three settlement patterns found in the area covered by the map. **(3marks)**

(d) Describe the relief of the area covered by the map. **(5marks)**

7. (a)Define the term vulcanicity **(2marks)**

(b) Give four characteristics of a composite volcano. **(4marks)**

(c)Describe how a lava plateau is formed. **(4marks)**

(d) Explain four negative effects of vulcanicity. **(8marks)**

(e)You intend to carry out a field study of an area affected by vulcanicity.

(i) Give four sources of information that you would use in the preparation for the study **(4marks)**

(ii) Give three factors that would make it difficult for you to collect accurate data during the field study. **(3marks)**

8 (a)Give three agents of weathering **(3marks)**

(b) Describe frost action as a process of weathering. **(4marks)**

(c)Explain how an exfoliation dome is formed. **(5marks)**

(d) Explain 3 factors that influence the rate of mass wasting. **(6marks)**

(e)State four slow types of mass wasting. **(4marks)**

(f) Give three positive effects of mass wasting. **(3marks)**

9. (a) (i) State three factors that influence transportation of materials in the sea. **(3marks)**

(ii) Draw a simple well labeled diagram of a sea wave. **(3marks)**

(iii)Give three ways in which islands are formed. **(3 marks)**

(b) Explain the following processes of wave erosion.

(i) Hydraulic action **(3marks)**

(ii) Solution **(2marks)**

(c)Describe the formation of a spit. **(5marks)**

(d) Explain 3 economic importances of coastal landforms. **(6marks)**

10.(a)State four physical factors that contribute to development of deserts. **(4marks)**

(b) Give four characteristics of desert landscape. **(4marks)**

(c)Explain three factors that influence wind transport in the desert. **(6marks)**

(d) Describe how a deflation hollow is formed. **(4marks)**

(e)You carried out a field study in a desert landscape.

(i) State four preparations for your study. **(4marks)**

(ii) List three water depositional features you identified. **(3marks)**

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NAME ……..……

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312/ 2

GEOGRAPHY

PAPER 2

2 ¾ HOURS

AMOBI PUBLISHERS GROUP OF EXAMINERS
PRE-MOCK 2 EXAMS

INSTRUCTIONS TO CANDIDATES

This paper consists of two sections **A**&**B**

Answer **ALL** questions in section **A**. In section **B** Answer **QUESTION 6** and **ANY OTHER TWO**questions from this section

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

SECTION A

Answer ALL questions in this section.

1. (a) What is environment? **(2marks)**

   (b) Identify two effects of the following environmental hazards.

   (i) Earthquakes **(2marks)**

   (ii) Nuclear wastes **(2marks)**

2. (a) Name two species of hardwood forests grown in Kenya. **(2marks)**

   (b) State three factors that favour the development of softwood forest in Kenya. **(3marks)**

3. (a) Define mining. **(2marks)**

   (b) Describe two factors that have influenced exploitation of minerals. **(4marks)**

4. (a) Give two types of ground photographs. **(2marks)**

   (b) State two limitations of using photographs. **(2marks)**

5. (a) Name two exotic dairy cattle breeds reared in Kenya. **(2marks)**

   (b) State two physical factors which favour dairy farming in Denmark. **(2marks)**

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

SECTION B

Answer QUESTION 6 and any other TWO questions in this section.

6. The table below shows the vehicles moving past the D.C's gate on Monday between 8:30a.m to 8:30p.m.

Period	**Isuzu**	**Leyland**	**Toyota**	**Nissan**	**Others**	**TOTAL**
8:30 – 10: 30a.m	100	150	300	240	80	
2:30 – 4: 30p.m	40	60	70	20	80	
6:30 – 8: 30p.m	120	130	90	140	120	
TOTAL	**260**	**340**	**460**	**400**	**280**	

(a)Find the grand total of vehicles moving past the gate on Monday. **(2marks)**

(b) Draw a simple pie chart to show the type of vehicles moving past the gate on Monday (radius = 3cm) **(8marks)**

(c)Outline the merits of using a simple pie chart to represent the above data. **(5marks)**

(d) Apart from pie charts, give other five ways used to present statistical date. **(5marks)**

(e)Identify five methods of collecting statistical data. **(5marks)**

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7. (a) Name the main types of natural forests in the world.**(3marks)**

(b) Explain the significance of forests and forest products in Kenya. **(10marks)**

(c) What has Kenya government done to conserve and manage forest? **(5marks)**

(d) (i) State 5 factors influencing the distribution of natural forests. **(5marks)**

(ii) Define forest management. **(2marks)**

8. (a) Define a mineral. **(2marks)**

(b) Explain the forms in which minerals occur. **(8marks)**

(c) State five significance of minerals in Kenya. **(5marks)**

(d) Students from Mtwapa High School went out for a field study in L. Magadi.

(i) Name 3 preparations they made before the study. **(3marks)**

(ii) Identify 2 problems they might have encountered during the study. **(2mark)**

(e)State 5 importance of studying geography through field work. **(5marks)**

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9. (a) (i) State three social factors which influence agriculture .**(3marks)**

(ii) Name two types of maize grown in Kenya. **(2marks)**

(b) (i) Name two areas in Kenya where maize is commercially grown. **(2marks)**

(ii) Describe the stages involved in the industrial processing of maize. **(4marks)**

(c) Identify 4 problems facing maize farmers in Kenya. **(4marks)**

(d) (i) Explain ways through which the Kenya government assists small scale maize farmers. **(6marks)**

(ii) State 4 uses of maize. **(4marks)**

10. (a) (i) What is Natural vegetation. **(1mark)**

(ii) State two topographical factors influencing distribution of vegetation. **(2marks)**

(b) You are required to carry out a field study of vegetation around your school.

(i) State two objectives for your study. **(2marks)**

(ii) How would you record the findings in your study?**(4marks)**

(c) Draw a well labeled diagram to show vegetation zonation on a mountain slope. **(8marks)**

(d) (i) Highlight five adaptational features of tropical desert vegetation. **(5marks)**

(ii) Identify two economic importance of desert vegetation. **(4marks)**

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NAME ……..……

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311/1

HISTORY AND GOVERNMENT

PAPER 1 2 ½ HOURS

AMOBI PUBLISHERS GROUP OF EXAMINERS
PRE-MOCK 2 EXAMS

INSTRUCTIONS TO CANDIDATES

- This paper consists of **THREE** sections: **A, B** and **C**.
- Answer **ALL** the questions in section **A**, **THREE** questions from section **B** and **TWO** questions from section **C**.
- Answers to all the questions must be written in answer sheets provided.

SECTION A (25 MARKS)

Answer ***all*** the questions in this section in the answer booklet provided.

1. State the main source of information in history and government on Kenyan communities. (1 **Mark**)

2. What was the main reason for the dispersal of the coastal Bantus from Shungwaya? (1 **Mark**)

3. Identify two customs acquired by the Bantu from their interaction with the Cushites. (2 **Marks**)

4. State the main archeological evidence to proof that there was contact between the Kenyan coast and the Chinesein the early 16th century. (1 **Mark**)

5. State two recommendations of the Devonshirewhitepaper of 1923. (2 **Marks**)

6. Give two reasons why the Akamba participated in the long distance trade. (2 Marks)

7. Name two leaders who led the Agyriama during their resistance against British occupation of Kenya. (2 **Marks**)

8. Identify two rights of the marginalized groups as contained in the Kenyan constitution. (2 **Marks**)

9. List two conditions a person in Kenya must fulfil to vie for presidential elections (2 **Marks**)

10. Name two missionary societies that merged to form the alliance of missionary societies in British East Africa.

(2 **Marks**)

11. State two reasons why the Africans were not allowed to grow cash crops during the colonial period.

(2 **Marks**)

12. Give two sources of Kenya law (2 **Marks**)

13. Name the engineer who supervised the construction of the Kenya – Uganda railway. (1 **Mark**)

14. Identify two factors that led to the emergence of independent churches and schools in Kenya during the colonial period.

(2 **Marks**)

15. Why is the right to life the most important right in the Kenyan constitution? (1 **Mark**)

SECTION B (45 MARKS)

Answer ***any three*** questions from the is section in the answer booklet provided

16. a. State three duties of the morans among the Maasai during thepre-colonial period. (3 **Marks**)

b. Explain the social political systems of the Ameru during the pre-colonial period. (12 **Marks**)

17. a. Enumerate five factors that led to the decline of the Indian Ocean trade. (5 **Marks**)

b. Explain the positive impact of the Portuguese rule along the East African coast. (10 **Marks**)

18. a. Outline five roles played by women in the struggle for independence in Kenya. (5 **Marks**)

b. Explain five contributions of Wangari Maathai in nation building. (10 **Marks**)

19. a. Give three reasons why Africans refused to give their labour to white settlers. (3 **Marks**)

b. Explain the effects of colonial land policies on the people of Kenya. (12 **Marks**)

SECTION C (30 MARKS)

Answer ***any two*** questions from this section in the answer booklet provided

20. a. State five values of good citizenship. (5**Marks**)

    b. Explain five reasons that can lead to Kenyan citizenship being revoked. (10**Marks**)

21. a. Identify three features of the independence constitution of Kenya in 1962. (3**Marks**)

    b. Explain six constitutional changes in Kenya between 1975 and 2011. (12**Marks**)

22. a. List three sources of county revenue.
    (3**Marks**)

    b. Discuss six reasons why devolved government in Kenya is very important. (12**Marks**)

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311/2

HISTORY AND GOVERNMENT

PAPER 2

2 ½ Hours

AMOBI PUBLISHERS GROUP OF EXAMINERS
PRE-MOCK 2 EXAMS

INSTRUCTIONS TO CANDIDATES

- This paper consists of **THREE** sections: **A, B** and **C**.
- Answer **ALL** the questions in section **A**, **THREE** questions from section **B** and **TWO** questions from section **C**.
- Answers to all the questions must be written in answer sheets provided

SECTION A (25 MARKS)

Answer ***all*** the questions in this section in the answer booklet provided

1. State two disadvantages of using electronic sources of information in history and government. (2 **Marks**)
2. Why was the Homo habilis referred to as "Able man"? (1 **Mark**)
3. State two early agricultural practices used in Britain before 1850. (2 **Marks**)
4. Name one African country that thwarted European invasion and occupation in the 19thcentury (1**Mark**)
5. State two causes of the Chimuregawar. (2 **Marks**)
6. Identify two disadvantages of electricity as a source of energy (2 **Marks**)
7. List two negative effects of urbanization in Cairo (2 **Marks**)
8. What was the main reason for the use of direct rule in Zimbabwe? (1 **Mark**)
9. State two ways in which the steam engine contributed to industrial revolution in Britain. (2 **Marks**)
10. Enumerate two economic factors for the growth of the MweneMutapa kingdom. (2 **Mark**)

11. Identify the main challenge facing industrialization in third world countries (1 **Mark**)

12. Outline two methods used by the international community to hasten majority rule in South Africa. (1 **Mark**)

13. Why in the camel referred as the ship of the desert. (1 **Mark**)

14. What was the role of the Tuareqs during the Trans-Saharan trade (1**Mark**)

15. State two results of the Berlin conference of November 1884 to Feb 1885. (2 **Mark**)

16. Identify the contribution of Andreas Vesalius in the field of medicine (1 **Mark**)

SECTION B (45 MARKS)

Answer ***any three*** questions from this section in the answer booklet provided.

17. a. Identify three types of trade. (3 **Marks**)

b. Describe the organization of the Trans Sahara trade (12 **Marks**)

18. a. Give three ways through which trade contributed to the rise of the Asante kingdom in the 18th century (3 **Marks**)

b. Describe the social organization of the Asante (12 **Marks**)

19. a. Identify five causes of food shortage in third world countries.
(5 **Marks**)

b. Explain the factors that led to Agrarian revolution in the USA.
(10**Marks**)

20. a. State three characteristics of industrial revolution in Europe.
(3 **Marks**)

b. Explain six factors hindering industrialization in third world countries. (12**Marks**)

SECTION C (30 MARKS)

Answer ***any two*** questions from this section in the answer booklet provided.

21. a. Enumerate the terms of the Lochner - Lewanika treaty of 1890
(3 **Marks**)

b. Explain the results of Lewanika's collaboration with the British.
(12**Marks**)

22. a. State three characteristics of indirect rule (3 **Marks**)

b. Discuss six reasons why indirect rule failed in SouthernNigeria (12**Marks**)

23. a. What were the factors for the growth of nationalism in Ghana? (5 Marks)

b. Explain the role of Kwame Nkrumah in the struggle of Ghana's independence in 1957. (10 **Marks**)

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JINA ……..…….

SHULE……TAREHE……..

SAHIHI……. NAMBARI YA USAJILI……..

102/1

KISWAHILI

Karatasi 1

Muda: Saa 1¾

AMOBI PUBLISHERS GROUP OF EXAMINERS
PRE-MOCK 2 EXAMS

Andika insha MBILI. Insha ya KWANZA ni ya LAZIMA.

Chagua insha moja nyingine kutoka tatu zilizobaki.

Kila Insha isipungue maneno 400.

Kila Insha ina alama 20.

INSHA 102/1

i. Lazima :

Wewe ni mwenyekiti wa jopo lililoteuliwa kuchunguza chanzo cha utovu wa usalama kijijini Sokoto. Andika ripoti maalum /rasmi kuhusu jambo hili.

ii. Magonjwa mengi yanasababishwa na mitindo ya kisasa ya maisha. Jadili.

iii. Tunga kisa kitakachodhihirisha maana ya methali: Mchagua nazi hupata koroma.

iv. Andika insha itakayoanza kwa maneno haya: Milipuko mikubwa ilisikika pu! Pu! Puu! Kisha niliwaona watu wakikimbia kuelekea pande zote…

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JINA ……..…….

SHULE……TAREHE……..

SAHIHI……. NAMBARI YA USAJILI……...

102/2 KISWAHILI Karatasi ya 2

MUDA: SAA 2 ½

AMOBI PUBLISHERS GROUP OF EXAMINERS

PRE-MOCK 2 EXAMS

KIDATO CHA NNE

MAAGIZO

1. Andika **jina lako** na **namba yako** katika nafasi ulioachiwa hapo juu.
2. Weka **sahihi yako** na **tarehe** ya mtihani katika nafasi ulizoachiwa.
3. Jibu maswali yote.
4. Majibu yaandikwe katika nafasi zilizoachwa wazi katika kijitabu hiki cha maswali.

Kwa matumizi ya mtihani pekee.

swali	upeo	alama
1 2 3 4	15 15 40 10	
Jumla	80	

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1. UFAHAMU: (Alama 15)

Soma kifungu kifuatacho kisha ujibu maswali yanayofuatia

Mateso ya wanawakiwa ni suala la kijamii linalofaa kutazamwa kwa darubini kali. Hata hivyo wanaoathirika zaidi ni watoto ambao bado wako katika umri unaohitaji kulelewa na kupewa mahitaji ya msingi kama mavazi, malazi, elimu na mengine anuwai. Hali ya kuachwa na wazazi imekuwa ikizikumba jamii tangu enzi za mababu na kila itokeapo, wanajamii huipokea kwa mitazamo tofautitofauti, hivyo kuwafanya wanawakiwa kuathirika sana.

Baadhi ya jamii zina imani za kijadi pamwe na mila zilizochakaa zinazozifanya kuamini kuwa baadhi ya vifo hutokana na laana. Wengine huchukulia kuwa mwendazake ameondolewa na ulozi. Imani kama hizi huifanya jamii kuwatia watoto walioachwa katika mkumbo ule ule, hivyo kuwaangalia kwa macho yasiyo ya kawaida. Hili husababisha dhana gande. Hali hii husababisha kuwachukulia watoto kama wanaotoka katika kizazi kilicholaaniwa. Jamii basi hukosa kuwapa watoto hawa stahiki yao. Hata wanapojitahidi kuiwania nafasi yao, waliowazunguka huwavunja mioyo. Jitihada zao huishia kuwa si chochote kwa kuwa jamii inawatazama kama waliolaaniwa.

Punde baada ya mzazi mmoja au wote wawili waendapo wasikorudi, inatarajiwa kwamba aliyeachiwa mtoto, awe mzazi wake, mwanafamilia au jirani awajibike na kumtunza mwanamkiwa. Kunao kadha wa kadha wanaowajibika – ninawavulia kofia. Hata hivyo wengi hutelekeza

jukumu hili walilopewa na Muumba. Si ajabu basi kuona kuwa idadi ya watoto wanaozururа mitaani inazidi kuongezeka kila uchao. Ukichunguza utakuta kuwa wengi wa watoto hawa ni waliopotelewa na wazazi wao. Inakera zaidi kugundua kuwa baadhi ya watoto hawa wana mzazi mmoja. Kwamba mke au mume wa mtu ameaga, au iwe kwamba mzazi mmoja alimzaa mtoto na kumwachia mwenzake mzigo wa ulezi, aliyeachiwa ana jukumu la kumpa mwanawe mahitaji ya msingi. Machoni pa Jalali, kila anayeupuuza wajibu huu ana hukumu yake siku ya kiama!

Ni haki ya kila mtoto kupata elimu. Katika katiba ya Kenya mathalan, elimu ya msingi, yaani kuanzia shule ya chekechea had kidato cha nne ni ya lazima. Tangu hapo hata hivyo, jamii zimekuwa zikiwanyima wanawakiwa wengi elimu. Kwamba kunao wachache wanaowaelimisha baadhi ya wanawakiwa, ni kweli. Hata hivyo, wengi hukosa hata wa kuwapeleka katika shule ya chekechea, hivyo kuishia kutojua hata kuandika majina yao. Mfikirie mtu katika karne ya 21, asiyejua kusoma wala kuandika! Nani ajuaye, huenda huyo mwanamkiwa asiyepelekwa shuleni ndiye angalikuwa profesa, daktari, mwalimu, rubani au msomi mtajika na mtaalamu wa uwanja muhimu katika jamii!

Kila mtoto ana haki ya kulelewa hadi kufikia utu uzima kabla ya kupewa majukumu mazito. Katika katiba ya Kenya, utu uzima, ulio umri wa kuanza kufanya kazi huanzia miaka 18. Wanaohakikisha watoto hawa

wametimiza utu uzima kabla ya kufanyishwa gange ngumu wanafaa pongezi. Hata hivyo wanawakiwa wamekuwa wakitumiwa na wengi kama punda wa huduma. Wanaaila wengine huwachukua wanawakiwa kwa machozi mengi wazazi wao waagapo nakuapa kuwahifadhi na kuwatunza wana wale wa ndugu zao, kumbe ni machozi ya simba kumlilia swara! Hata kabla ya mwili wa mzazi mhusika kuliwa na viwavi, mateso kwa mtoto yule huanza, akawa ndiye afanyaye kazi zote ngumu. Utakuta watoto wao wamekaa kama sultan bin jerehe huku mwanamkiwa yule akiwapikia, kuwafulia nguo, kudeki, karibu hata awaoshe miili! Kazi kama zile za shokoa huwa za sulubu na aghalabu husindikizwa kwa matusi yasiyoandikika.

Baadhi ya waja walionyimwa huruma huwahadaa wanawakiwa na kuwapeleka ng'ambo wakitumia vyambo, kuwa wakifika kule watapata kazi za kifahari. Maskini wale hushia kushikwa shokoa, wakawa watumwa katika nyumba za waajiri wao, bila namna ya kujinasua. Wengine hushia kutumiwa kama watumwa wa 'kimapenzi' katika madanguro, miili yao ikawa ya kuuziwa makahaba waroho wasiojali utu. Kujinasua kule huwa sawa na kujitahidi kuokoa ukuni uliokwishageuka jivu, maadamu wanawakiwa aghalabu hukosa watu wenye mioyo ya huruma ya kuwashughulikia. Wengi huitumia methali 'mwana wa ndugu kirugu mjukuu mwanangwa' kuwapuuzilia mbali wanawakiwa ambao hukimbiliwa tu wabinafsi hawa wanapofaidika wenyewe.

Maswali

a) Ipe taarifa hii anwani mwafaka. **(alama 1)**

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b) Eleza dhana ya mwanamkiwa kwa mujibu wa kifungu. **(alama 2)**

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c) Eleza imani za kijadi kuhusiana na wanawakiwa. **(alama 2)**

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d) Jadili masaibu yanayowakumba wanawakiwa. **(alama 4)**

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e) Eleza haki mbili za kikatiba zilizokiukwa kuhusiana na wanawakiwa. **(alama 4)**

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f) Eleza maana ya msamiati ufuatao kulingana na kifungu. **(alama 2)**

i) Inakera

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ii) Majukumu

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2. UFUPISHO: (Alama 15)

<u>Soma kifungu kifuatacho kisha ujibu maswali</u>

Runinga kama kifaa kingine chochote cha mawasiliano kina manufaa yake. Kwanza kabisa, ni nyenzo mwafaka ya kufundishia. Vipindi vinavyopeperushwa katika runinga huwa na mafunzo kemkemu kwa mtu wa kila rika. Halikadhalika, runinga huweza kuleta vipindi

ambavyo huwafahamisha watu mambo yanayoendelea katika mazingira yao na duniani. Aidha, runinga ikitumika pamoja na michezo ya video huauni katika ukuzaji na ustawishaji wa stadi ya kujifundisha au kujielimisha. Michezo ya video, hasa ya kielimu, huwafanya watu kujenga umakini pamoja na kuchua misuli ya ubongo na kuwafanya watu kuwa macho wanapofanya kazi.

Fauka ya hayo, televisheni ni chemchemi bora ya kutumbuiza na kuchangamsha. Hakuna mtu asiyependa kuchangamshwa. Televisheni ni mojawapo ya vyombo mwafaka vya kutekeleza hayo kutokana na vipindi vyake. Uburudishaji huu huwa ni liwazo kutokana na shinikizo na migogoro tunayokabiliana nayo kila siku. Uburudishaji huu hupatikana kwa urahisi majumbani mwetu.

Vivyo hivyo, runinga hutumika kama nyenzo ya kuendeleza utamaduni, kaida na amali za jamii. Vingi vya vipindi vya runinga huwa ni kioo ambacho huakisi mikakati na amali za jamii.

Kwa upande mwingine, hakuna kizuri kisichokuwa na dosari. Licha ya manufaa yake, televisheni imedhihirika kuwa na udhaifu wake. Kwanza, baadhi ya vipindi vya runinga na video hujumuisha ujumbe usio na maadili, kama vile matumizi ya nguvu za mabavu, ngono za kiholela, lugha isiyo ya adabu, ubaya wa kimavazi na maonevu ya rangi, dini, jinsia, kabila na utamaduni. Si ajabu kuwa baadhi ya vijana wetu wanaiga baadhi ya mambo haya. Vijana wetu siku hizi wameingilia ulevi wa pombe na afyuni, ngono za mapema kabla ya ndoa na mavazi

yanaowaacha takribani uchi wa mnyama. Wengi wamekopa na kuyaiga haya kutoka katika runinga. Ukiwauliza wafanyacho, watakujibu kuwa ni ustaarabu kwani wameupata katika runinga.

Matumizi ya runinga na michezo ya video yasiyodhibitiwa huweza kuwa kikwazo cha mawasiliano bora miongoni mwa familia. Matumizi kama haya huwapa wanafamilia fursa ya kujitenga. Imedhihirika kuwa runinga haichangii kujenga uhusiano bora wa kijamii. Ukilinganisha na vyombo vingine vya burudani ambavyo hutoa nafasi ya watu kutangamana na kujenga uhusiano bora, televisheni haichangii haya. Badala yake, tajriba ya televisheni huwa ya kibinafsi. Hali hii inapotokea katika kiwango cha familia, televisheni inaweza kutenganisha wazazi na watoto wao.

Halikadhalika, runinga na video aghalabu hueneza maadili yasiyofaa. Mathalani, baadhi ya vipindi vya televisheni huendeleza hulka ya kuhadaa, ngono za kiholela, kuvunjika kwa ndoa, n.k. Hulka hizi zisizoendeleza maadili ya kijamii huchukuliwa kama zinazofaa na zinazofuatwa na waliostaarabika. Huu ni upotovu.

Isitoshe, baadhi ya matangazo huhimiza matumizi ya dawa za kulevya kama tembo na sigara. Vitu hivi vinapotangazwa, hupambwa kwa hila na udanganyifu mwingi ambao huwavutia vijana na watoto wengi. Si ajabu mtu anapouliza wanaotumia vileo hivi walivyoanza, watajibu kutokana na athari za matangazo katika runinga na vyombo vingine.

Utafiti umeonyesha kuwa vipindi vya runinga na video ni chanzo cha matumizi ya nguvu za mabavu miongoni mwa wanafunzi. Wazazi wengi huchukulia vibonzo katika televisheni kuwa vinalenga kuburudisha tu na havina ubaya wowote. Lakini ukweli ni kuwa vipindi vingi vya vibonzo hushirikisha matumizi ya hila na nguvu za mabavu. Haya huibusha hamu ya vijana na watoto huyaiga.

Kwa hivyo, ni muhimu wazazi na jamii kutambua madhara ya televisheni. Utambuzi huu utawafanya wawaelekeze vijana na watoto jinsi ya kutumia televisheni na video ili kuepukana na madhara yake.

a) Fupisha aya tatu za kwanza za (maneno 70 – 75)

(alama 7, 2 za utiririko)

Matayarisho

Jibu

b) Eleza udhaifu wa runinga na video. (maneno 50 – 51)

(alama 5, 1 ya utiririko)

Matayarisho

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Jibu

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3. MATUMIZI YA LUGHA: (alama 40)

a) Taja aina mbili kuu za ala za kutamkia sauti **(alama 2)**

_____

_____

_____

b) Taja mfano mmoja mmoja wa sauti zifuatazo **(alama 2)**

Kimadende

_____

_____

Kipasuo kwamizo

_____

_____

c) Huku ukitoa mfano, eleza maana ya sentensi sahili **(alama 2)**

_____

_____

_____

_____

_____

d) Ainisha mofimu katika neno lifuatalo **(alama 3)**

Tulimpikia

_____

_____

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e) Ainisha vitenzi katika sentensi: Kitabu anachotaka kusoma ki mezani **(alama 3)**

_____

_____

_____

_____

_____

f) Tunga sentensi moja ukitumia kiunganishi kiteuzi **(alama 2)**

_____

_____

_____

_____

_____

g) Nomino zifuatazo zimo katika ngeli gani? **(alama 2)**

a) Uzi_____

b) Muda_____

h) Tumia 'o' rejeshi ya kati katika sentensi ifuatayo **(alama 2)**

Watu ambao walifika jana ni wale ambao walitoka mbali

_____

_____

i) Onyesha shamirisho kipozi na ala katika sentensi ifuatayo **(alama 2)**

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Mwindaji haramu alimuua ndovu kwa bunduki

j) Changanua sentensi ifuatayo ukitumia mistari au mishale **(alama 3)**

Kilipikwa jana jioni

k) Andika sentensi ifuatayo katika hali yakinishi **(alama 2)**

Msingesoma kwa bidii, msingepita

l) Tunga sentensi moja kudhihirisha dhamira/jukumu hili **(alama 2)**

Rai/ombi

m) Ainisha vishazi katika sentensi ifuatayo **(alama 2)**

Mtoto ambaye alianguka jana ana maumivu mengi

n) Onyesha matumizi yoyote mawili ya ~~ki-wa-ki-~~shi: koma/kituo **(alama 2)**

o) Tumia neno ‘Nairobi’ kama **(alama 2)**

a) Nomino

b) Kielezi

p) Tunga sentensi moja kutofautisha maana ya kuku na gugu **(alama 2)**

q) Onyesha matumizi ya kiambishi -ji- katika sentensi **(alama 2)**

Mwongeleaji stadi anajishaua sana.

r) Andika katika usemi wa taarifa **(alama 2)**

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"Wageni wangu watafika saa ngapi? Mama aliuliza

s) Unda nomino kutokana na kitenzi **(alama 1)**

Safari

4. ISIMUJAMII: **(alama 10)**

Nipe chai, andazi mbili na egg moja…….

a) Taja sajili inayorejelewa na maneno haya **(alama 2)**

b) Fafanua sifa nne zinazohusishwa na sajili hiyo **(alama 8)**

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JINA ……..…….

SHULE……TAREHE……..

SAHIHI……. NAMBARI YA USAJILI……..

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PRE-MOCK 2 EXAMS

KISWAHILI

KARATASI YA 3, FASIHI 1, MUHULA WA PILI

MUDA: 2 ½

MAAGIZO

(a) Jibu maswali manne pekee.

(b) Swali la kwanza ni lazima.

(c) Maswali hayo mengine matatu yachaguliww kutoka sehemu nne zilizobaki

(d) Usijibu maswali mawili kutoka sehemu moja.

SEHEMU A: Riwaya

1. LAZIMA

Assumpta K. Matei: Chozi la heri

"Hili lilimtia ……. uchungu, akajiona kama aliyedhalilishwa na mwanamke."

(a)Yaweke maneno haya katika muktadha wake (alama 4)

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(b) Taja suala linalodokezwa katika dondoo hili (alama 1)

(c)Kwa kutumia hoja <u>kumi na tano</u>, eleza namna suala ulilolitaja hapo juu 1 (b) linalijitokeza (ala. 15)

SEHEMU B: Tamthilia

Kigogo (Pauline Kea)

Jibu swali la <u>pili</u> au la <u>tatu</u>

2. "Kubali pendekezo letu la kufungwa kwa soko…… huoni hii ni fursa nzuri ya kulipiza kisasi?"

(a)Fafanua muktadha wa dondoo hili (alama 4)

(b) Kufungwa kwa soko ni ukatili. Mbali na ukatili huu, toa mifano mingine ya ukatili kwenye tamthilia. (alama 9)

(c)Msemaji wa maneno haya ni mshauri mbaya. Thibitisha kutoka kwenye dondoo na kwingineko tamthiliani. (alama 7)

3. (a) Fafanua mbinu kumi anazotumia Majoka katika kuuendeleza uongozi wake(alama 10)

(b) Eleza namna mbinu ya <u>ishara</u> ilivyotumiwa katika tamthilia ya <u>Kigogo</u> (alama 10)

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SEHEMU C: Hadithi Fupi

Tumbo Lisiloshiba na Hadithi Nyingine (Alifa Chokocho na Dumu Kayanda)

Jibu swali la 4 au la 5

4. "…… Ningeondoka ….. mapema niende niibe au niue ili niwe mtu wa maana."

(a)Eleza muktadha wa maneno haya

(alama 4)

(b) Onyesha vile Kinaya kinavyojitokeza katika dondoo hili

(alama 2)

(c) "Kinaya kimetumika kwingine katika hadithi husika. Thibitisha kwa kutumia hoja tisa

(alama 9)

(d) Eleza umuhimu wa msemaji katika hadithi hii

(alama 5)

5. (a) Eleza namna maudhui ya ndoa yalivyosawiriwa katika hadithi ya Masharti ya Kisasa

(alama 13)

Kwa kurejelea hadithi ya Shibe inatumaliza, eleza namna maudhui ya ufisadi yanavyojitokeza

(alama 7)

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SEHEMU D: Fasihi Simulizi

6. Soma utungo ufuatao kisha ujibu maswali

Heri ujue mapema
Nasaba yetu haina woga
Woga haumei kwetu, humea kwa kina mamako.
Tulichinja jogoo na fahali ili uwe mwanaume.

Ah! Kisu cha ngariba ni kikali ajabu.
Iwapo utatikisa kichwacho.
Uhamie kwa wasiotahiri,
Ama tukwite njeku.

Mpwangu kumbuka hili,
Wanaume wa mlango wetu
Si waoga wa kisu
Wao hukatwa mchana hadi usiku
Wala hawalalamiki.

Siku nilipokatwa
Nilisimama tisti
Nikacheka ngariba kwa tashtiti
Halikunitoka chozi.

Iwapo utapepesa kope
Wasichana wa kwetu na wa mbali
Wote watakucheka
Ubaki ukinuna.

Sembe umepokea
Na supu ya makongoro ukabugia
Sema unachotaka
Usije kunitia aibu

Maswali;

(a) Taja na uthibitishe shughuli zozote za kiuchumi za jamii ya wimbo huu (alama 4)

(b) Ni nani mwimbaji wa wimbo huu na anawaimbia nani? (alama 2)

(c) Huu ni wimbo wa aina gani? Thibitisha (alama 2)

(d) Mwimbaji wa wimbo huu ana taasubi ya kiume. Thibitisha kauli hii. (alama 2)

(e) Eleza wajibu wa nyimbo katika jamii (alama 6)

(f) Ijapokuwa nyimbo ni nzuri, zina ubaya wake. Thibitisha kauli hii (alama 4)

SEHEMU E: Ushairi (alama 20)

Jibu swali la 7 au la 8

7. Soma shairi lifuatalo kisha ujibu maswali

Kama dau baharini, duniya inavyoyumba,
Limeshamiri tufani, kila mmoja lakumba,
Viumbe tu hali gani!

Duniya yatishika, utahisi kama kwamba,
Vilima vyaporomoka, na kuvurugika myamba,
Viumbe tu hali gani!

Tufani hilo la kusi, languruma na *kutamba*,
Linapuliza kwa kasi, hapana kisichoyumba,
Viumbe tu hali gani!

Mujiwe ni kubwa sana, mfanowe kama nyumba,
Yazuka na kugongana, wala hatuna la *kwamba*,
Viumbe tu hali gani!

Mibuyu hata mivule, kama usufi na pamba,
Inarusha vilevile, *seuze hiyi migomba*
Viumbe tu hali gani!

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Ni kipi kilotuliya, tuwazeni na kudumba,
Mandovu kiangaliya, yagongana na masimba,
Fisi wako hali gani!

Hata papa baharini, tufani limewakumba,
Walioko mikondoni, kila mmoja *asamba*,
Dagaa wa hali gani!

Mashehe wa mdaduwa, kwa ubani na uvumba,
Tufani hilo kwa kuwa, kusoze kwake kutamba,
Itokee afueni!
(Shairi la 'Tufani' la Haji Gora Haji, katika *Tamthilia ya Maisha,* uk 62)

<u>Maswali;</u>

(a)Taja na ueleze mikondo ya shairi hili (alama 4)

(b) Eleza dhamira ya shairi hili (alama 2)

(c)Taja tamathali za usemi zilizotumiwa katika shairi hili. (alama 2)

(d) Eleza muundo wa shairi hili (alama 4)

(e)Eleza ujumbe unaojitokeza katika ubeti wa tano. (alama 3)

(f) Onyesha matumizi ya idhini ya kishairi . (alama 3)

(g) Eleza maana ya maneno yafuatayo kwa mjibu wa shairi hili (alama 2)

(i) Mdaduwa :

(ii) Kutamba :

8. Soma shairi lifuatalo kisha ujibu maswali

Daima alfajiri na mapema
Hunipitia na jembe na kotama
Katika njia iendayo Kondeni
Kama walivyofanya babuze zamani;
Nimuonapo huwa anatabasamu
Kama mtu aliye na hamu
Kushika mpini na kutokwa jasho
Ili kujikimu kupata malisho.

Anapotembea anasikiliza
Videge vya anga vinavyotumbuiza
Utadhani huwa vimemngojea
Kwa usiku kucha kuja kumwimbia
Pia pepo baridi kumpepea
Rihi ya maua zikimtetea
Nao umande kumbusu miguuni;

Na miti yote hujipinda migogo
Kumpapasa, kumtoa matongo;
Na yeye kundelea kwa furaha
Kuliko yeyote ninayemjua
Akichekelea ha ha ha ha ha ha …….

Na mimi kubaki kujiuliza
Kuna siri gani inayomliwaza?
Au ni kujua au kutojua?
Furaha ya mtu ni furaha gani?
Katika dunia inayomhini?
Ukali wa jua wamnyima zao
Soko la dunia lamkaba koo;
Dini za kudhani zamsonga roho
Ayalimia matumbo ya waroho.
Kuna jambo gani linalomridhisha?
Kama si kujua ni kutojua
Lait angalijua, laity angalijua!

Maswali:

a) Eleza hali ya mzungumziwa katika shairi hili. (alama 2)

b) Huku ukitoa mifano, onyesha aina mbili za uhuru wa kishairi uliotumiwa katika shairi hili (ala. 4)

c) Fafanua aina tatu za taswira ukirejelea ubeti wa pili (alama 3)

d) Maswali ya balagha katika shairi hili yanasisitiza maudhui yapi? (alama 2)

e) Kwa kutoa mifano, bainisha vipengele vitatu vya Kimtindo katika shairi hili (alama 3)

f) Eleza toni ya shairi hili (alama 2)

g) Bainisha nafsineni katika shairi hili (alama 1)

h) Eleza muundo wa shairi hili (alama 3)

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NAME ……..……

SCHOOL……...

DATE ……INDEX NO. ……SIGN……..…

121/1 MATHEMATICS PAPER 1 2 ½ HOURS

AMOBI PUBLISHERS GROUP OF EXAMINERS

PRE-MOCK 2 EXAMS

Instructions toCandidates

1. Write your name, Admission number and class in the spaces provided.
2. Sign and write date of the examination in the spaces provided.
3. The paper contains TWO sections: Section I and II
4. Answer ALL questions in section I and **STRICTLY ANY FIVE** questions from section II.
5. All working and answers must be written on the question paper in the spaces provided below each question.
6. Show all the steps in your calculations, giving your answers at each stage in the spaces below each question.
7. Marks may be awarded for correct working even if the answer is wrong.
8. Non-programmable silent electronic calculators and KNEC Mathematical tables may be used except where stated otherwise.

For Examiner's use only Section I

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

GRAND TOTAL

Section II

17	18	19	20	21	22	23	24	25	TOTAL

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Section I(50 Marks): Answer ALL questions in the section in the space provided.

1. Evaluate $\frac{-12 \div (-3) x 4 - (-20)}{-6 \; x \; 6 \div + (-6)}$ (2 Marks)

2. Mr. Owino spends $\frac{1}{4}$ of his salary on school fees. He spends $\frac{2}{3}$ of the remainder on food and a fifth of what is left on transport. He saves the balance. In certain month he saved Sh. 3400. What was his salary? (3 marks)

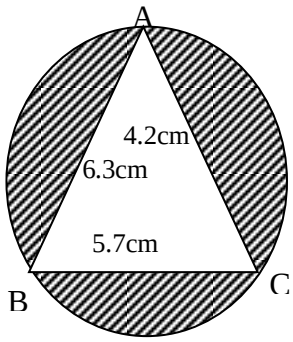
3. Simplify: (3 Marks)

$$\frac{2y^2 - 3xy - 2x^2}{4y^2 - x^2}$$

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4. Find x if$3^{2x+3}+ 1 = 28$ (2 Marks)

5. The circle below whose area is 18.05cm^2 circumscribes triangle ABC where AB = 6.3cm, BC = 5.7cm and AC = 4.2cm. Find the area of the shaded part. (4 Marks)



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6. A salesman gets a commission of 2.4% on sales up to Sh. 100,000. He gets additional commission of 1.5% on sales above this. Calculate the commission he gets for sales worth Sh. 280,000. (3 Marks)

7. A rectangle whose area is $96m^2$ is such that its length is 4metres longer than its width.

   Find

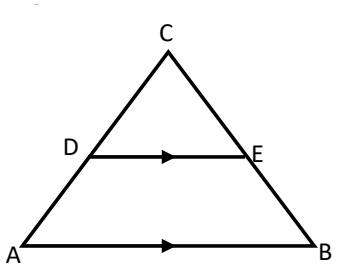
   (a)It dimensions (2 Marks)

   (b) Its perimeter (1 Mark)

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8. Give sin (90 – a) = $\frac{1}{2}$find without using trigonometric tables the value of cos a . (2 Marks)

9. In triangle ABC below, AC = BC, AB is parallel to DE, AB = 15cm, DE = 7.5cm and BE = 6cm.



Calculate

(a)Length CE (2 Marks)

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(b) Area of quadrilateral ABED. (2 Marks)

10. A measuring cylinder of base radius 5cm contains water whose level reads 6cm high. A spherical object is immersed in the water and the new level reads 10cm. Calculate the radius of the spherical object
(3 Marks)

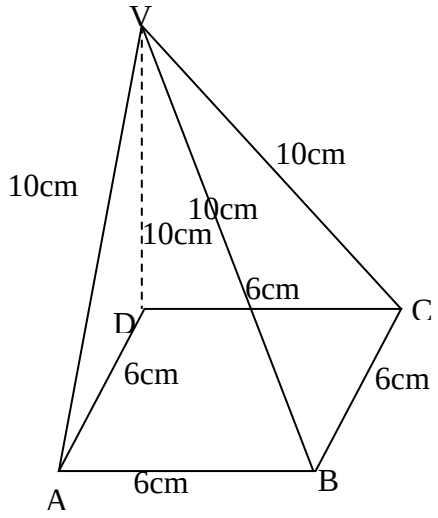
11. Using a ruler and pair of compasses only, construct triangle ABC in which AB = 6cm, BC = 8cm and angle ABC = 45^0. Drop a perpendicular from A to BC to meet line BC at M. Measure AM and AC. (4 Marks)

12. In a book store, books packed in cartons are arranged in rows such that there are 50 cartons in the first row, 48 cartons in the next row, 46 in the next and so on.

(a)How many cartons will there be in the 8th row? (2 Marks)

(b) If there are 20 rows in total, find the total number of cartons in the book store. (2 Marks)

13. Draw the net of the solid below and calculate the total surface area of its faces. (3 Marks)



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14. Town X is 20km in a bearing of 060^0 from Y, and Z is 30km in the direction 150^0 from Y. Using the scale 1cm represents 5km, find by scale drawing:

(a)the bearing of Y from Z. (2 Marks)

(b) the distance of X from Z. (2 Marks)

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15. Solve for x in 2^{2x} - 18 x 2^{x} = 40 (3 Marks)

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16. Oketch sells his car to Jane and makes a profit of 20%. Jane sells the same to Issa at Sh.180, 000, making a loss of 10%. Determine the price at which Oketch bought the car. (3 Marks)

Section II (50 Marks):

Answer ANY five questions in this section in the spaces provided.

17. The distance between towns A and B is 360km. A minibus left town A at 8.15 a.m. and traveled towards town B at an average speed of 90km/hr. A matatu left town B two and a third hours later on the same day and travelled towards A at average speed of 110km/hr.

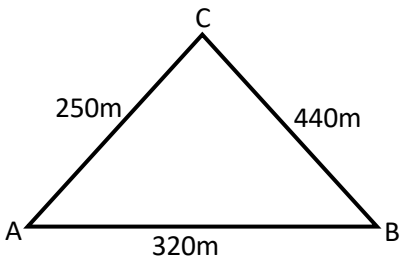
(a)(i) At what time did the two vehicles meet? (4 Marks)

(ii) How far from A did the two vehicles meet? (2 Marks)

(b) A motorist started from his home at 10.30 a.m. on the same day as the matatu and travelled at an average speed of 100km/h. He arrive at B at the same time as the minibus. Calculate the distance from A to his house. (4 Marks)

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18. Karis owns a farm that is triangular in shape as shown below.



(a)Calculate the size of angle BAC (2 Marks)

(b) Find the area of the farm in hectares (3 Marks)

(c)Karis wishes to irrigate his farm using a sprinkler machine situated in the farm such that it is equidistant from points A, B and C.

(i) Calculate the distance of the sprinkler from point C. (2 Marks)

(ii) The sprinkler rotates in a circular motion so that the maximum point reached by the water jets is the vertices A, B and C. Calculate the area outside his farm that will be irrigated. (3 Marks)

19. A ship leaves port M and sails on a bearing of 050^0 heading towards island L. Two Navy destroyers sail from a naval base N to intercept the ship. Destroyer A sails such that it covers the shortest distance possible. Destroyer B sails on a bearing of 20^0 to L. The bearing of N from M is 100^0 and distance

NM = 300KM. Using a scale of 1cm to represent 50km, determine:-

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(i) the positions of M, N and L. (3 Marks)

(ii) the distance travelled by destroyer A (3 Marks)

(iii) the distance travelled by destroyer B. (2 Marks)

(iv) the bearing of N from L. (2 Marks)

20. A number of people agreed to contribute equally to buy books worth KSh. 1200 for a school library. Five people pulled out and so the others agreed to contribute an extra Shs. 10 each. Their contributions enabled them to buy books worth Shs. 200 more than they originally expected.

(a) If the original numbers of people was x, write an expression of how much each was originally to contribute. (1 Mark)

(b) Write down two expressions of how much each contributed after the five people pulled out. (2 Marks)

(c) Calculate the number of people who made the contribution. (5 Marks)

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(d) Calculate how much each contributed. (2 Marks)

21. Using a ruler and a pair of compasses only, draw a parallelogram ABCD, such that angle DAB = 75^0. Length AB = 6.0cm and BC = 4.0cm.From point D, drop a perpendicular to meet line AB at N.

(7 Marks)

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(i) Measure length DN (1 Mark)

(ii) Find the area of the parallelogram. (2 Marks)

22. The following measurements were recorded in a field book of a farm in metres (xy = 400m)

	Y	
	400	
C60	340	
	300	120D
	240	100E
	220	160F
B100	140	
A120	80	
	x	

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(a)Using a scale of 1cm representing 4000cm, draw an accurate map of the farm. (3 Marks)

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(b) If the farm is on sale at Kshs. 80,000.00 per hectare, find how much it costs. (7 Marks)

23. The table shows marks obtained by 100 candidates at Goseta Secondary School in Biology examination.

Marks	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85-94
Frequency	6	14	24	14	x	10	6	4

(a)Determine the value of x (2 Marks)

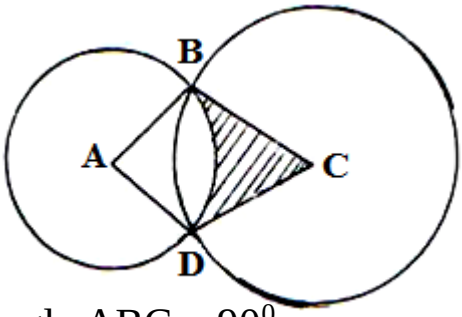
(b) State the modal class (1 Mark)

(c)Calculate the median mark (2 Marks)

(d) Calculate the mean mark (5 Marks)

24. In the diagram below, two circles, centres A and C and radii 7cm and 24cm respectively intersect at B and D. AC = 25cm.

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(a)Show that angle ABC = 90^0. (3 Marks)

(b) Calculate

(i) the size of obtuse angle BAD (3 Marks)

(ii) the area of the shaded part (4 Marks)

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121/2 MATHEMATICS PAPER 2 ½ HOURS

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PRE-MOCK 2 EXAMS

Instructions to Candidates

1. Write your name, Admission number and class in the spaces provided.
2. Sign and write date of the examination in the spaces provided.
3. The paper contains TWO sections: Section I and II
4. Answer ALL questions in section I and **STRICTLY ANY FIVE** questions from section II.
5. All working and answers must be written on the question paper in the spaces provided below each question.
6. Show all the steps in your calculations, giving your answers at each stage in the spaces below each question.
7. Marks may be awarded for correct working even if the answer is wrong.
8. Non-programmable silent electronic calculators and KNEC Mathematical tables may be used except where stated otherwise.

For Examiner's use only

Section I

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

Section II

GRAND TOTAL

17	18	19	20	21	22	23	24	25	TOTAL	

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Section I(50 Marks): Answer ALL questions in the section in the space provided.

SECTION I

1. Use logarithm tables correct to 4 significant figures to evaluate. (3 Marks)

$$\frac{\sqrt[3]{0.07214 \; x \; 2.037}}{69.8}$$

2. Find the equation of the perpendicular bisector of line PQ where the co-ordinates of P and Q are P (-2, 8) and Q (4, 7). (3 Marks)

3. The surface areas of two spheres are $36cm^2$ and $49cm^2$. If the volume of the smaller sphere is $20.2cm^3$, calculate the volume of the larger one. (2 Marks)

4. The marked price of a shirt is Sh. 800. A customer buys the shirt after being given a discount of 13%. The seller then realizes that he made a profit of 20% on this sale. Find how much the seller had bought the shirt. (2 Marks)

5. In the grid provided below, show the region R that is satisfied by the three inequalities given below.

   $Y \leq 6 - x$

   $y < x + 4$

   $y \geq 2$ (4 Marks)

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6. The radius of a cone increases in the ratio 4:3 while it's height decreases in the ratio 3:4. Determine the percentage change in the volume of the cone. (3 Marks)

7. Solve for x in the equation (3 Marks)

Log (5x + 75) – 2 Log 3 = Log (2x – 9)

8. Given that $\underset{\sim}{a} = 3\underset{\sim}{i} - 2\underset{\sim}{j} + 3\underset{\sim}{k}$ and $\underset{\sim}{b} = 2\underset{\sim}{i} - 4\underset{\sim}{j} - 3\underset{\sim}{k}$ where i, j and k are unit vectors,find |2a + 3b| (3 Marks)

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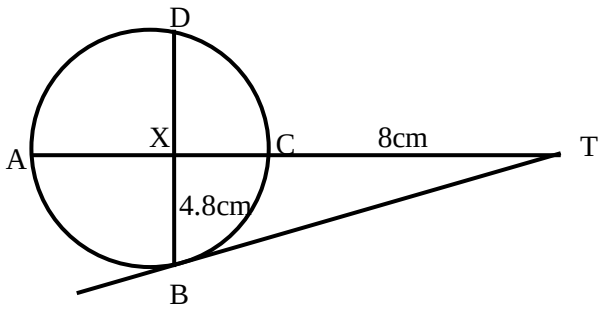
9. Make x the subject of the formula in

$$a = \left(\frac{bx}{b+x}\right)^{\frac{1}{3}}$$

Hence find the value of x when a = 2 and b = 6. (4 Marks)

10. In the figure below, BT is a tangent to the circle at B. AXCT and BXD are straight lines. AX = 6cm,

CT = 8cm, BX = 4.8cm and XD = 5cm. (Figure not drawn to scale)



Find the length of

(a)XC (2 Marks)

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(b) BT (2 Marks)

11. Simplify $\frac{3}{\sqrt{5}-2} + \frac{1}{\sqrt{5}}$ leaving your answer in the form a + b$\sqrt{c}$, where a, b and c are rational numbers.(3 Marks)

12. A quantity y varies partly as another quantity x and partly as the square of x. When x = 20, y = 45 and when x = 24, y = 60.

(a)Express y in terms of x (3 Marks)

(b) Find x when y = 75 (1 Mark)

13. Expand $(a-x)^6$ upto the term in$(x)^3$. Use your expansion to estimate the value of $(2.99)^6$to 3 decimal places. (4 Marks)

14. A pipe 3.0m long was cut into three pieces. The first piece and the second one were measured as 1.3m and 0.94m respectively. Find the limits within which the length of the third piece lies. (3 Marks)

15. A coffee blender has two brands of coffee, Tamu and Chungu. A kilogram of Tamu costs Sh. 70 while a kilogram of Chungu costs Shs. 64. In what ratio should he mix the two brands to make a blend which

costs Shs. 68 per kilogram? (2 Marks)

16. Find the centre and radius of a circle whose equation is $x^2 + y^2 + 8x + y^2 - 2y - 1 = 0$ (3 Marks)

SECTION II (50 Marks): Answer ANY FIVE questions in this section in the spaces provided.

17. In a Science class $\frac{2}{3}$ of the class are boys and the rest are girls. 80% of the boys and 90% of the girls are right handed. The probability that the right handed student will break a test tube in any session is $\frac{1}{10}$ and that for the left handed student is $\frac{3}{10}$, regardless of whether boy or girl.

(a)Draw a tree diagram to represent this information. (2 Marks)

(b) Using the tree diagram drawn, find the probability that:

(i) A student chosen at random from the class is left handed(2 Marks)

(ii) A test tube is broken by a left handed student. (2 Marks)

(iii) A test tube is broken by a right handed student. (2 Marks)

(iv) A test tube is not broken in any session (3 Marks)

18. Matrix P is given by $\begin{pmatrix} 4 & 7 \\ 5 & 8 \end{pmatrix}$

(a)Find P^{-1} (2 Marks)

(b) Two institutions, Katulani High School and Nthia High School purchased beans at Sh. b per bag and maize at Sh. m per bag. Katulani purchased 8 bags of beans and 14 bags of maize for KSh. 47,600. Nthia purchased 10 bags of beans and 16 bags of maize for KSh. 57,400.

(i) Form a matrix equation to represent the information above.(2 Marks)

(ii) Use matrix $P^{-1}$to find the prices of one bag of each item. (3 Marks)

(c)The price of beans later went up by 5% and that of maize remained constant. Katulani bought the same quality of beans but spent the same total of money as before on the two items. State the new ratio of beans to maize. (3 Marks)

19. James' earning are as follows:-
    Basic salary Sh. 38,000 p.m
    House allowance Sh. 14,000 p.m
    Travelling allowance Sh. 8,500 p.m
    Medical allowance Sh. 3,300

The table for the taxable income is as shown below.

Income tax in K£ p.a	Tax in Sh. per pound
1 ——— 600	2
6001 ——— 12000	3
12001——— 18000	4
1001 ——— 24000	5
24001——— 30000	6
30001 ——— 36000	7
36001——— 42000	8
42001——— 48000	9
Over48000	10

(a)Calculate James' taxable income in K£ p.a. (2 Marks)

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(b) Calculate James's P.A.YE if he is entitled to a tax relief of Sh. 18000 p.a. (4 Marks)

(c)James is also deducted the following per month:-

NHIF	Sh. 320
Pension scheme	Sh. 1000
Co-operative shares	Sh. 2000
Loan repayment	Sh. 5000
Interest on loan	Sh. 500

(i) Calculate James' total deduction per month in KSh. (2 Marks)

(ii) Calculate his net salary per month (2 Marks)

20. Three consecutive terms of a geometric progression are 3^{2x+1}, 9^{x} and 81 respectively.

(a)Calculate the value of x (3 Marks)

(b) Find the common ratio of the series. (1 Mark)

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(c)Calculate the sum of the first 4 terms of this series. (3 Marks)

(d) Given that the fifth and the seventh terms of the G.P form the first two consecutive terms of an arithmetic sequence, calculate the sum of the first 20 terms of the sequence. (3 Marks)

21. A tank has two inlet taps P and Q and an outlet tap R. When empty, the tank can be filled by tap P alone in $4\frac{1}{2}$hour or by tap Q alone in 3 hours. When full, the tap can be emptied in 2 hours by tap R.

(a)The tank is initially empty. Find how long it would take to fill up the tank

(i) If tap R is closed and taps P and Q are opened at the same time.

(2 Marks)

(ii) If all the three taps are opened at the same time. (2 Marks)

(b) The tank is initially empty and the three taps are opened as follows:-

P at 8.00 a.m.

Q at 8.45 a.m

R at 9.00 a.m

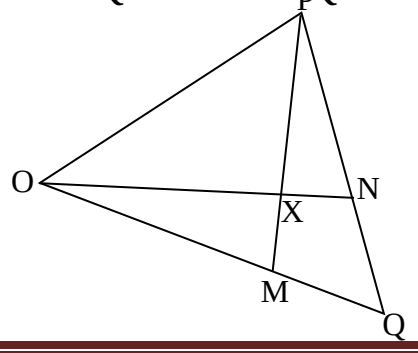
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(i) Find the fraction of the tank that would be filled by 9.00 a.m

(3 Marks)

(ii) Find the time the tank would be fully filled up (3 Marks)

22. In the figure below M and N are points on OQ and QP such that OM:MQ = 2:3 and QN : NP = 2:1. ON and PM intersect at X.



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(a)Given that $\underset{\sim}{OP} = p$ and $\underset{\sim}{OQ} = q$. Express in terms of p and q

(i) $\underset{\sim}{QN}$ (2 Marks)

(ii) $\underset{\sim}{PM}$ (2 Marks)

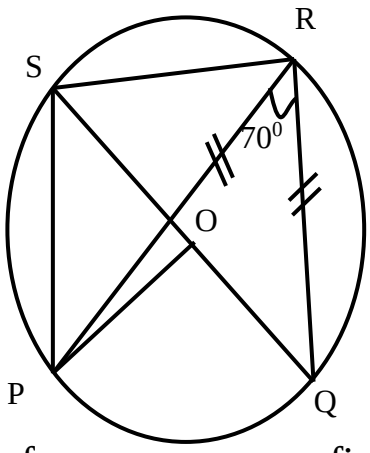
(b) Given that $\underset{\sim}{OX} = h\underset{\sim}{ON}$ and PX = kPM where h and k are scalars,

(i) Determine the values of h and k. (5 Marks)

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(ii) Determine ratio in which X divides PM. (1 Mark)

23. The figure below shows a circle centre O, PQRS is a cyclic quadrilateral and QOS is a straight line.



Giving reasons for your answers, find the size of

(a)Angle PRS (2 Marks)

(b) Angle POQ (2 Marks)

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(c)Angle QSR (3 Marks)

(d) Reflex angle POS (3 Marks)

24. (a) Complete the table below for $y = x^3 + 4x^2 – 5x - 5$

(2 Marks)

x	-5	-4	-3	-2	-1	0	1	2
$y = x^3 + 4x^2 – 5x - 5$			19			-5		

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(b) On the grid provided, draw the graph of $y = x^3 + 4x^2 – 5x – 5$ for $-5 \leq x \leq 2$ (3 Marks)

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(c)(i) Use the graph to solve the equation $x^3 + 4x^2 – 5x – 5 = 0$ (2 Marks)

(ii) By drawing a suitable straight line on the graph, solve the equation (3 Marks)

$x^3 + 4x^2 – 5x – 5 = -4x - 1$

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AMOBI PUBLISHERS GROUP OF EXAMINERS

PRE-MOCK 2 EXAMS

PHYSICS THEORY PAPER 1 2 HOURS

INSTRUCTIONS

Write your name and admission number in the space provided

Sign and write the date of the examination in the space provided above

This paper consists of two sections A and B.

Answer all the questions in the spaces provided.

All workings must be clearly shown.

Mathematical tables and silent electronic calculators may be used.

For examiner's use only

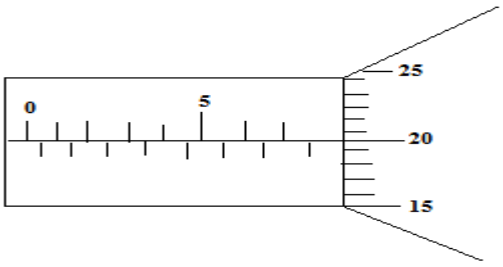
SECTION	QUESTION	TOTAL MARKS	CANDIDATE'S SCORE
A	1-13	25	
B	14	14	
	15	10	
	16	11	
	17	10	
	18	10	
		GRAND TOTAL	80 MARKS

TOTAL CANDIDATE'S SCORE

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SECTION A (25 MARKS)

1. The figure below shows a micrometer screw gauge. What is the reading shown on the figure. (2 marks)



2. State pressure law. (1 mark)

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3. State two factors that affect stability of a body. (2 marks)

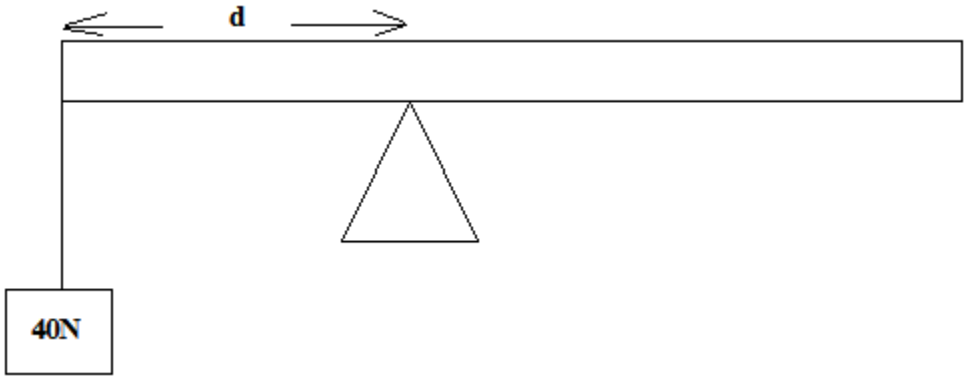
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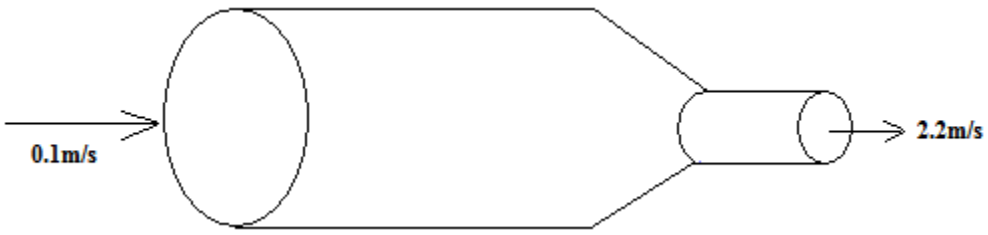
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4. The diagram below shows a uniform wooden plank of length 4m and weight 10N. The plank is held at equilibrium by a weight of 40N placed at one end as shown below.



Determine the distance d. (3 marks)

5. Figure below shows a non-viscous fluid that is not compressible moving through a pipe of varied cross-sectional area.



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If the area of the narrow region is $0.05m^2$, calculate diameter of the wider region. (3 marks)

6. State one use of thermal expansion. (1 mark)

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7. State two factors that affect melting point of a substance. (2 marks)

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8. A body is projected vertically upwards from the top of a building. If it lands on the base of the building. Sketch the velocity-time graph for motion. (2 marks)

9. State a reason why transfer by radiation is faster than by conduction.

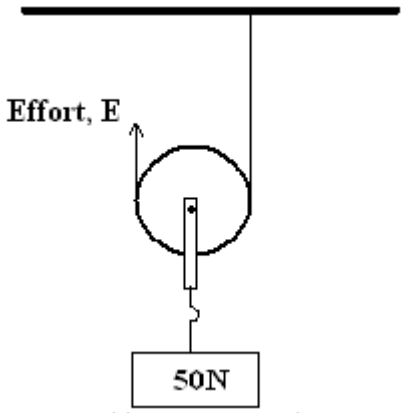
(1 mark)

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10. The pulley system in the figure below supports a load of 50N.

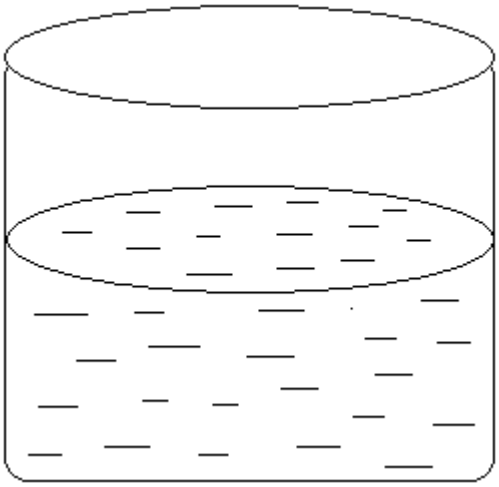


Given that the efficiency of the system is 80% calculate the effort, E.

(3 marks)

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11. The figure below shows a glass container with cross-section area of $50cm^2$.



When a wooden block of mass 120g is immersed into the water it floats while fully submerged and the water level rises by 4cm, determine the density of the water. (3 marks)

12. Define the term momentum. (1 mark)

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13. What is a pitch of a screw. (1 mark)

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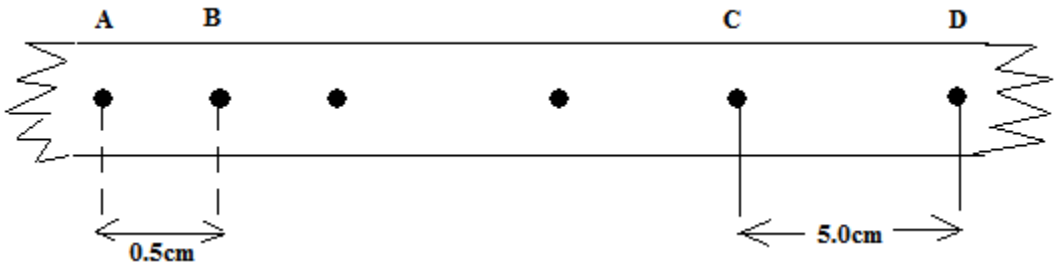
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SECTION B

14. The figure below shows the motion of a trolley on ticker timer.

The ticker has a frequency of 100Hz.



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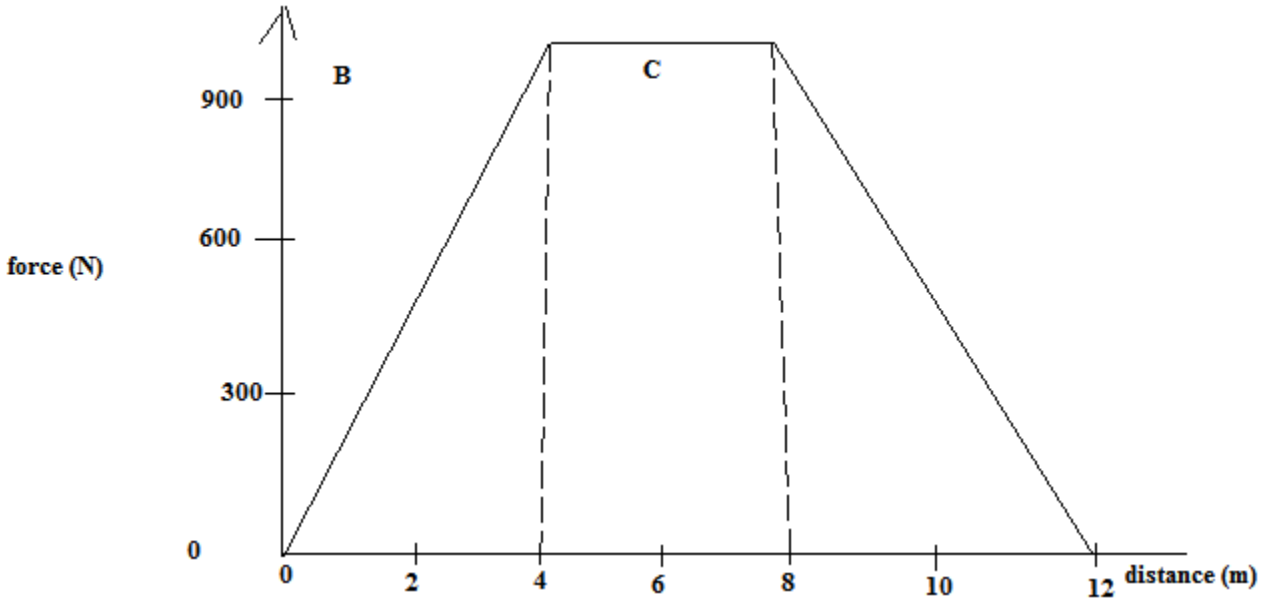
a) i) Calculate the initial velocity between A and B. (3 marks)

ii) Calculate the final velocity between C and D. (3 marks)

iii) Calculate the acceleration of the trolley during the motion. (3 marks)

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b) Figure below shows a force-distance graph for a car being towed on a level ground.



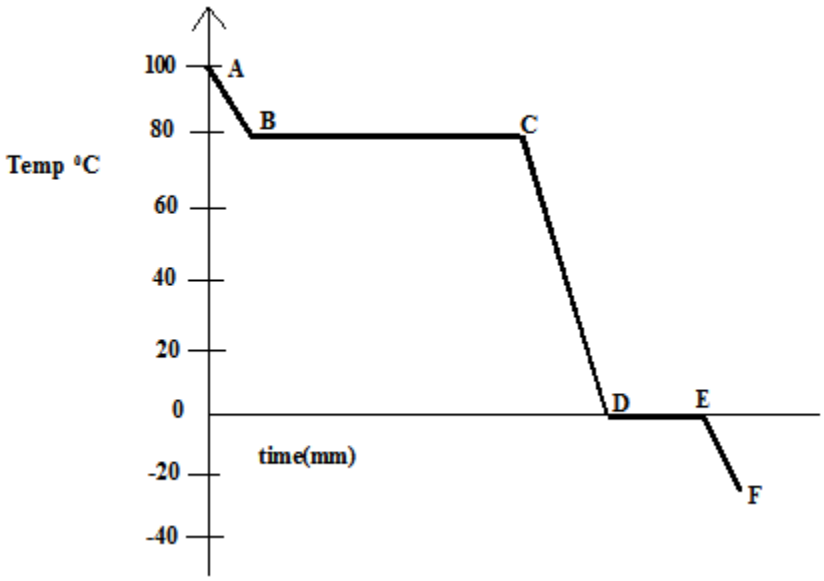
i) Calculate the total work done. (3 marks)

ii) If the velocity just before reaching point C is 0.6m/s. Calculate the power developed by the engine at this point. (2 marks)

15. a) A metal ball of mass 100g is dipped into boiling water at 100^0C and then placed in a calorimeter containing 80g of water at 20^0C. After stirring, the temperature of the mixture stabilizes at 23.4^0C. Ignoring the heat gained by the calorimeter, determine the specific heat capacity of the metal. (Specific heat capacity of water = 4200j/Kg K).

(4 marks)

b) The cooling curve below is for a pure substance.



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i) What is the melting point of the substance. (1 mark)

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ii) State two factors that affect boiling point of a substance.

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iii) At what part of the curve is the substance.

Solid only? ……..

Liquid only? ……

Solid and Liquid? (3 marks)

16. a) State Newton's second law of linear motion. (1 mark)

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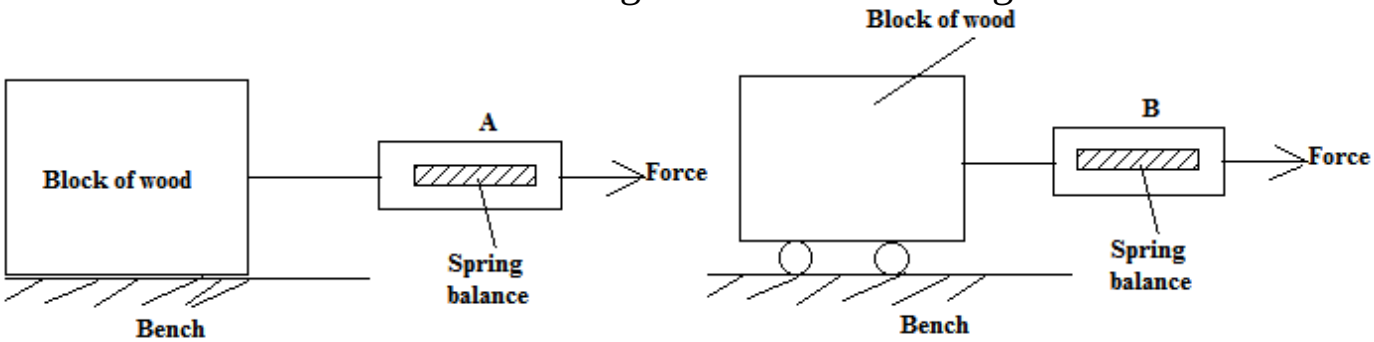
b) The legal speed limit on motorways is approximately 30m/s. In an incident on a motorway, a car of mass 900kg leaves a skid mark 75m long when stopping. The maximum deceleration of the car when skidding is approximately $10m/s^2$.

i) Show that before the incidence, the car must have been travelling above the legal speed limit. (3 marks)

ii) Calculate for this skid, the maximum average braking force between each of the four tyres and the road. (3 marks)

iii)When the motorway is wet, the braking force provided by each wheel is reduced to 50% of the calculated in (ii) above. What is the effect of this reduced breaking force on stopping distance, explain your answer. Assume that the speed of the car before breaking is the same in both cases. (2 marks)

c) A student carried out an experiment to measure static friction using identical wooden blocks arranged as shown in the figure.



State and explain which spring balance will indicate a smaller reading when the block just starts to move. (2 marks)

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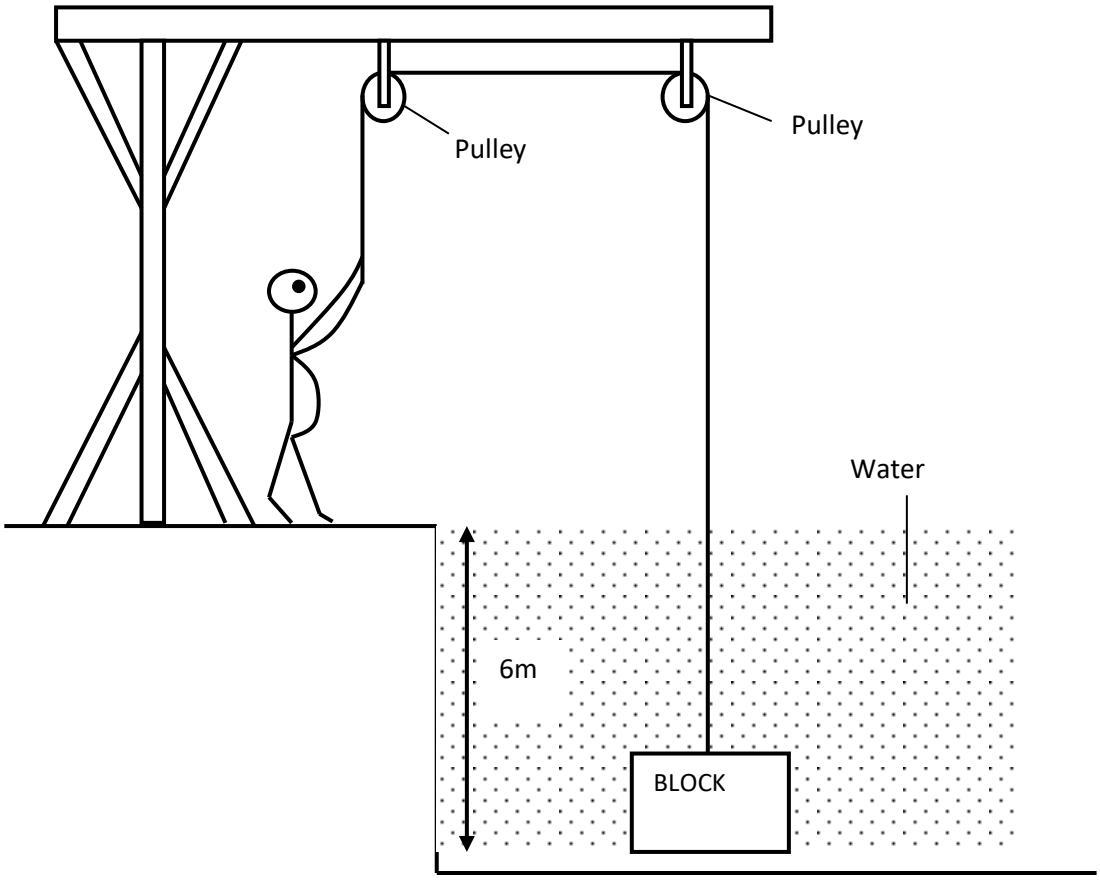
17. a) Give a reason why people experience nose bleeding when they climb tall mountains. (1 mark)

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b) The diagram shows a person raising a concrete block from a river bed by using two pulleys.



As shown in the diagram, the top of the block is 6.0m below the water surface. The density of water is 1000kg/m^3 and the

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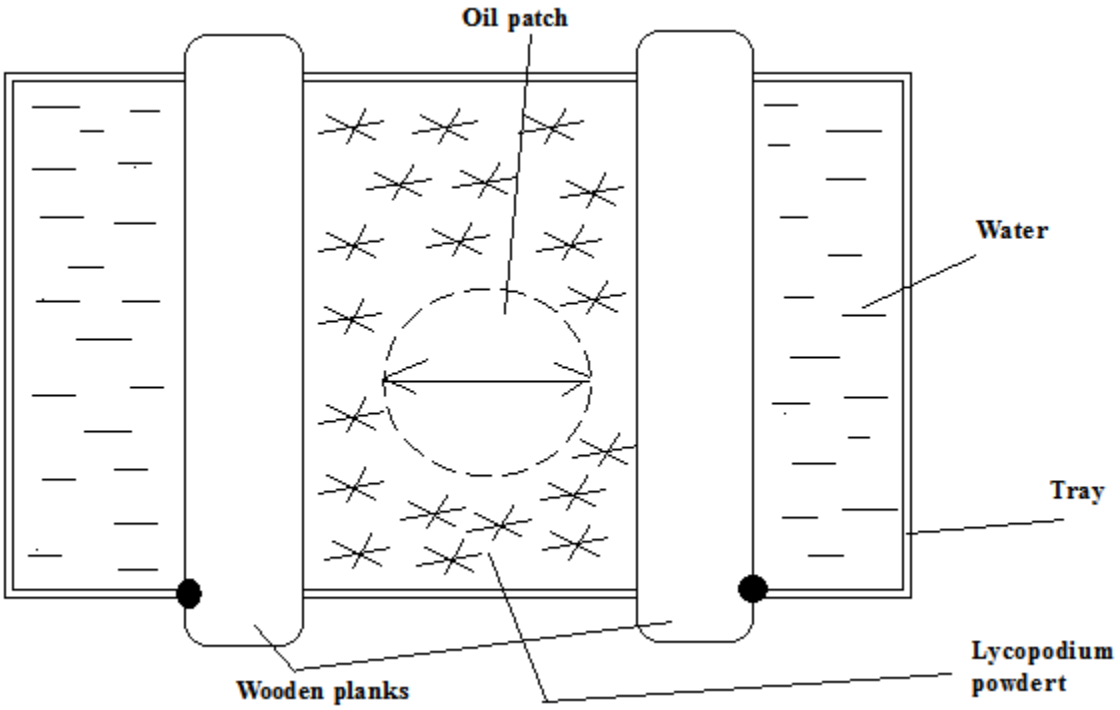
acceleration of free fall is $10m/s^2$. Calculate the water pressure acting on the top of the block. (3 marks)

c) The block is raised through water. At one part, the water pressure acting on the top of the block 4.5×10^4 pa. The area of the top of the block is $0.015m^2$. Calculate the downward force exerted by the water on top of the block. (3 marks)

d) When the block is clear of the water, it is raised a further 4.0m. The weight of the block is 550N. Calculate the work on the block as it

is raised the 4.0m through air. (3 marks)

18. The figure below shows part of an experiment set up to estimate the diameter of an oil molecule.



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i) Describe how the oil patch is formed. (2 marks)

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ii) What is the role of the Lycopodiumpowder. (1 mark)

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b) An oil drop of average diameter 0.7mm spreads out into a roughly circular patch of diameter 73.5cm on the surface of water in a trough.

i) Calculate volume of the drop in mm^3. Take ($\pi = 22/7$) (3 marks)

ii) Calculate the area of the patch in mm^3. (2 marks)

iii)Calculate the thickness of the oil molecule and express your answer in standard form.(2 marks)

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232/2 PHYSICS THEORY PAPER 2 2HOURS

AMOBI PUBLISHERS GROUP OF EXAMINERS

PRE-MOCK 2 EXAMS

INSTRUCTIONS

Write your name and admission number in the space provided

Sign and write the date of the examination in the space provided above

This paper consists of two sections A and B.

Answer all the questions in the spaces provided.

All working must be clearly shown.

Mathematical tables and electronic calculators may be used.

For examiner's use only

SECTION	QUESTION	TOTAL MARKS	CANDIDATE'S SCORE
A	1-13	25	
B	14	11	
	15	13	
	16	11	
	17	10	
	18	10	
		GRAND TOTAL	80 MARKS

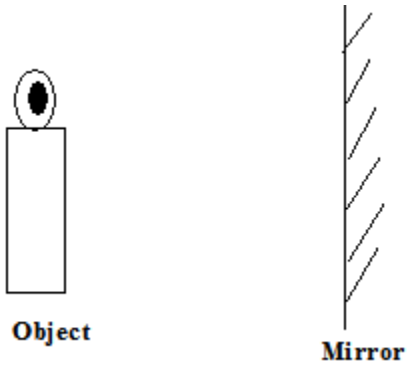
TOTAL CANDIDATE'S SCORE

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SECTION A (25 Marks)

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

1. Locate the position of the image of the object placed in front of a plane mirror shown below. (2 mks)



2. Show the magnetic field pattern of the current carrying conductors shown below. (2 mks)



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3. State two factors that determine the strength of an electromagnet.(2 mks)

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4. State two advantages of using a convex mirror as a driving mirror. (2 mks)

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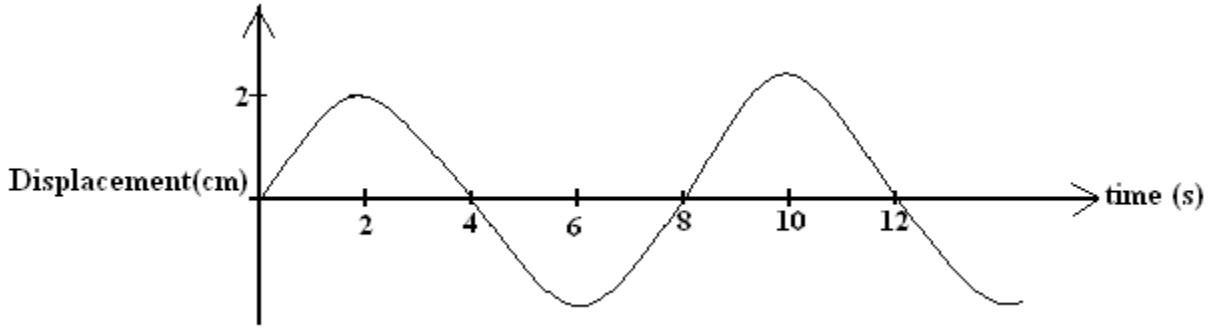
5. State two factors that affects the resistivity of an electrical conductor. (2 mks)

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6. The figure below shows a wave in progress.



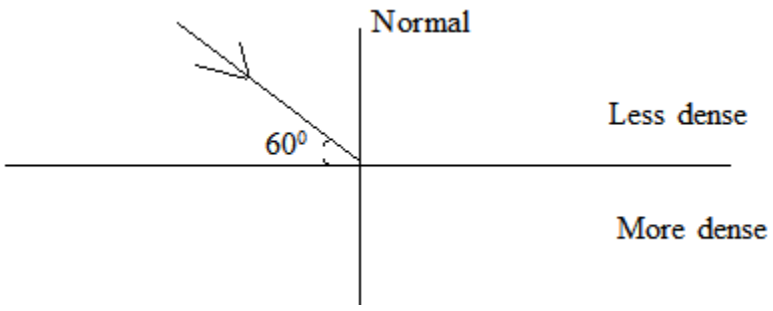
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Determine the

a) Amplitude (1 mark)

b) Frequency (2 marks)

7. The figure below shows light travelling from less dense to more dense medium.



a) Show the direction of the refracted ray. (1 mark)

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b) If the refractive index of the more dense medium is 1.4, calculate the angle of refraction. (3 marks)

8. A current ,I, flowing through a wire of resistance ,R, is increased by seven times. Determine the factor by which the rate of heat production was increased. (3 marks)

9. The wavelength of a radio wave is 1km. Determine its frequency if the speed in $3 \times 10^{8} ms^{-1}$ (2 marks)

10. State two uses of gold leaf electroscope. (2 marks)

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11. Give a reason why soft iron is used as a core of the coil of an electric bell. (1 mark)

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12. State two differences between pinhole camera and the human eye. (2 marks)

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13. State two types of waves. (2 marks)

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SECTION B (55 MARKS)

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

14. a) Define the following terms.

i) Capacitor (1 mark)

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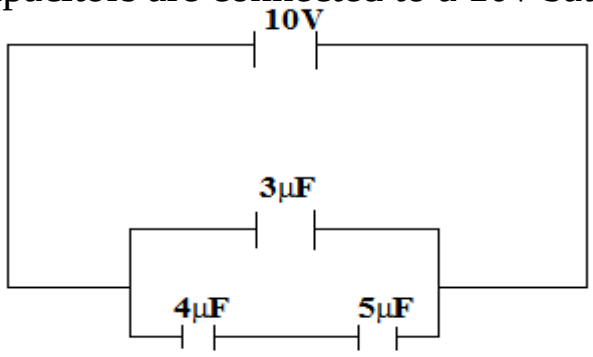
ii) Capacitance (1 mark)

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b) Three capacitors are connected to a 10v battery.



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Calculate

i) the effective capacitance (3 marks)

ii) the total charge (3 marks)

c) State three factors that determine the capacitance of a capacitor. (3 marks)

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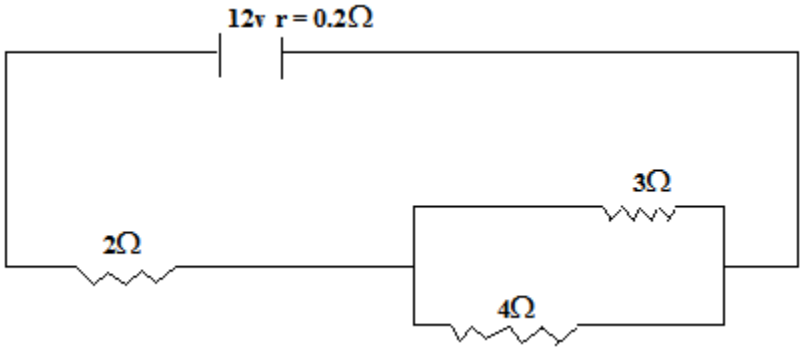
15. a) Define a resistor. (1 mark)

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b) The figure below shows three resistors connected to 12v supply of internal resistance of 0.2□.



Calculate

i) the effective resistance. (3 marks)

ii) the total current in the circuit. (2 marks)

iii) the current through the 4□ □resistance. (3 marks)

c) If the current flows for 2 minutes calculate the total energy dissiparted. (2 marks)

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d) State two applications of resistors in real life situation. (2 marks)

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16.a) Explain briefly how a material acquires a positive charge.(3 marks)

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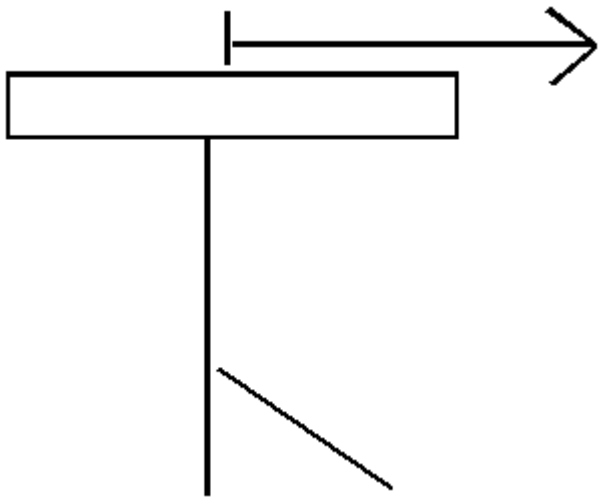
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b) A steel pin is placed on the cap of a highly charge electroscope.



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State and explain the observation that will be made on the gold leaf.
(2 marks)

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c) State a reason why a candle flame is blown away when a highly charged metal is brought close to it (2 marks)

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d) Explain briefly why it is not advisable to take shelter on a tree when it is raining. (2 marks)

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e) State two dangers of electrostatic charges. (2 marks)

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17. a) State two methods of magnetisation. (2 marks)

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b) Why is repulsion the surest way of identifying a magnet.(2 marks)

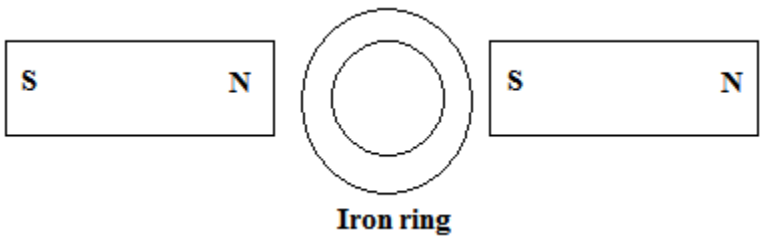
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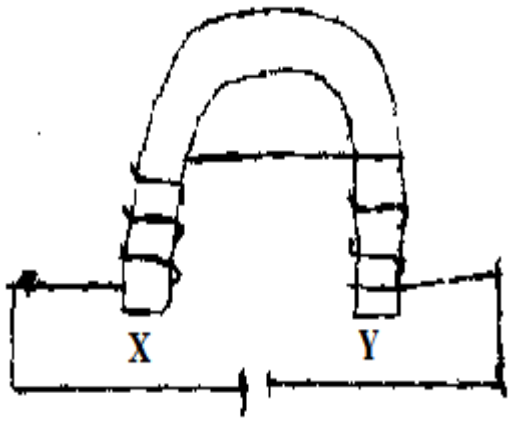
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c) Complete the diagram below to show the magnetic field patterns.
(2 marks)



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d) i) The figure below in a U-shaped iron core. Indicate the polarity at X and Y. (2 marks)



ii) State two applications of such an electromagnet. (2 marks)

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18. a) A pin is placed at the bottom of a beaker containing a transparent liquid. When viewed from the top the pin appears nearer the surface than it actually is. Explain the observation. (2 marks)

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b) The table below shows the results obtained from such an experiment.

Apparent depth (cm)	2.21	3.68	5.15	6.62	8.09
Real depth cm	3.0	5.0	7.0	9.0	11.0

i) Plot a graph of real depth against apparent depth. (5 marks)

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232/3 PHYSICS PRACTICAL PAPER 3 2 ¼HOURS

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PRE-MOCK 1 EXAMS

INSTRUCTIONS

Answer all the questions in this paper

You are supposed to spend the first 15 minutes of the 2 ¼hours allowed for this paper reading the whole paper carefully before starting your work.

Marks are given for clear record of the observations made, their suitability and accuracy and the use made of them.

Candidates are advised to record observations as soon as they are made

Mathematical table and electronic calculators may be used.

For Examiner's use only

QUESTION	TOTAL MARKS	CANDIDATE'S SCORE
1	20	
2	20	
	GRAND TOTAL	80 MARKS

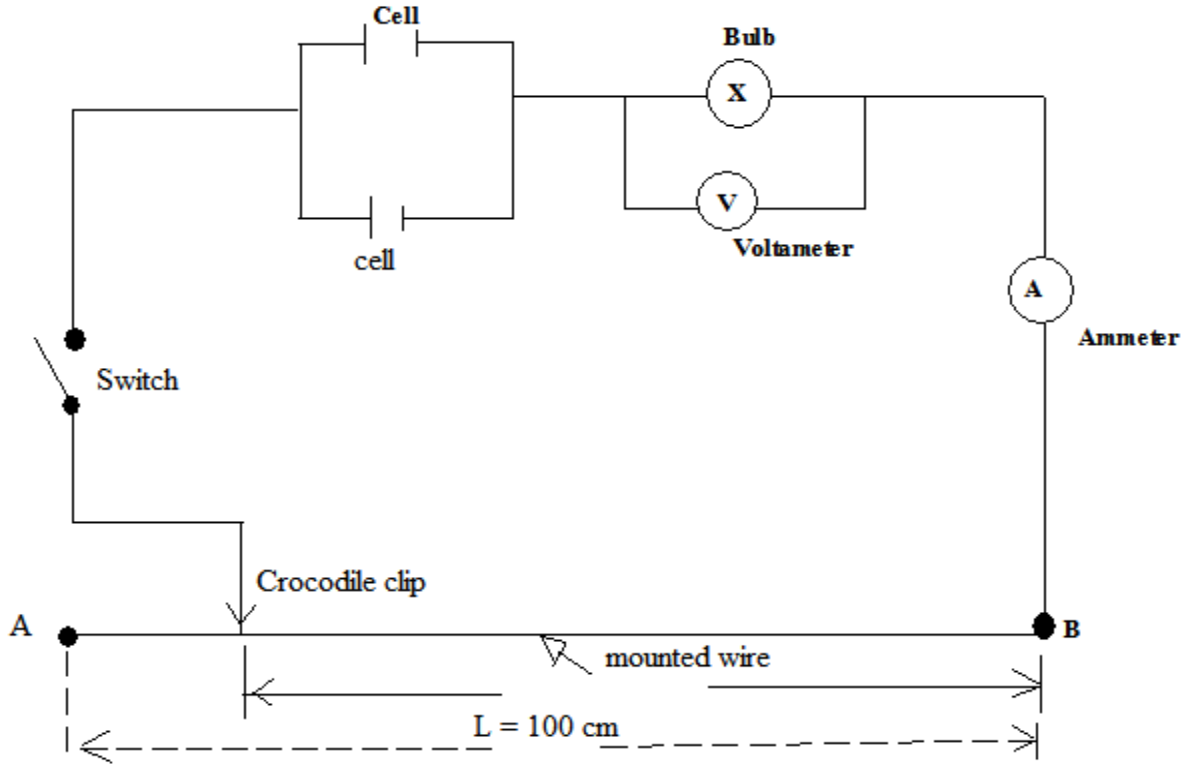
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Question 1

You are provided with the following apparatus

- Two dry cells
- A cell holder
- A bulb
- A voltameter
- An ammeter
- A switch
- Amounted resistance wire labelled AB

a) Set up the apparatus as shown in the circuit below.



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b) With the crocodile clip at A (ie L = 100cm) take the voltameter reading (V) and the ammeter reading (I). Record V and I in the table below.

Length l(cm)	100	80	60	40	20	0
Voltage (V)						
Current I (A)						

(7 marks)

c) Repeat the procedure in (b) above for the lengths shown and complete the table above.

d) State the changes you observe on the bulb as L decrease from A.

(2 marks)

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e) Plot a graph of voltage against length (cm) (5 marks)

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f) What physical quantity does the slope of the graph represent at any given point. (2 marks)

g) From your graph determine the value of voltage at length L = 70cm. (2 marks)

h) Use your graph to describe how the physical quantity in (e) above is affected as the current increases. Explain why. (2 marks)

Question 2

You are provided with the following apparatus

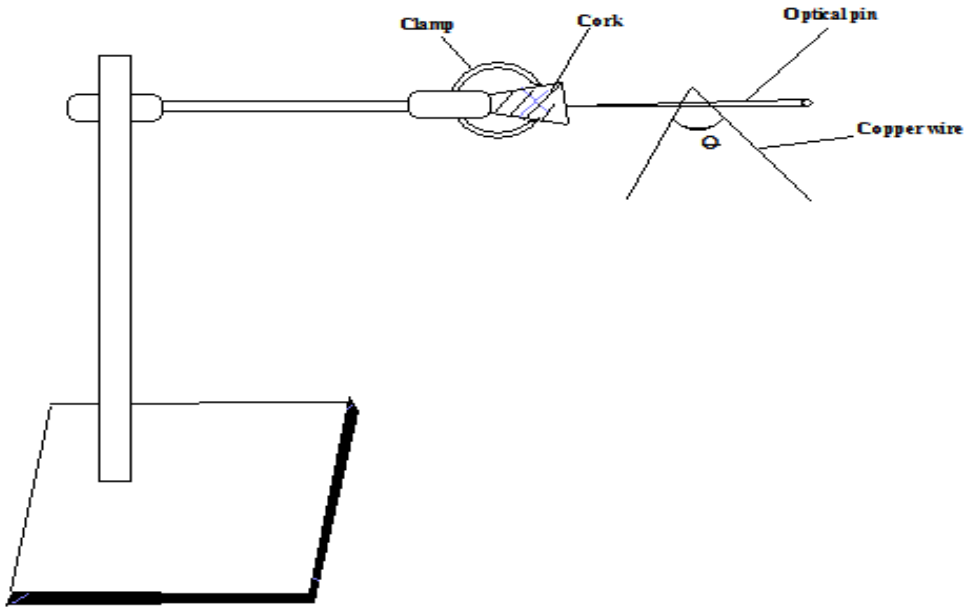
- A complete stand
- Copper wire (wire length about 30cm)
- A stop watch
- A protractor
- A meter rule
- Corked optical pin

Procedure

a) Measure the length L of the copper wire.

L = ... m (1 mark)

b) Bend the wire to form an angle Θ of 60^0, suspend it from the corked optical pin as shown in the diagram below.



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c) Give it a small displacement so that it oscillates about a point on the pin. Measure the time, t(s) for 10 oscillations of the wire.

t = ... (s) (1 mark)

d) Repeat the procedure (b) above for the values of $\Theta = 70^0, 80^0, 90^0, 100^0, 110^0$.

e) Record and complete the results in the table below.

Θ (^{0})	60	70	80	90	100	110
Cos $^1/_2\Theta$						
Time for 10 oscillations, t (s)						
Periodic time T (s)						
T^2 (s^2)						
$^1/_{T^2}$ (s^{-2})						

(7 marks)

f) On the grid provided, plot a graph of $^1/_{T^2}$ (s^2) against Cos$^1/_2\Theta$.

(5 marks)

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g) Determine the slope. (3 marks)

h) Given that the graph is related by the equation $^{1}/_{T}{}^{2} = \frac{8\pi^{2}L}{g}\text{Cos } {}^{1}/_{2}\Theta$, determine the value of constant g. (3 marks)

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