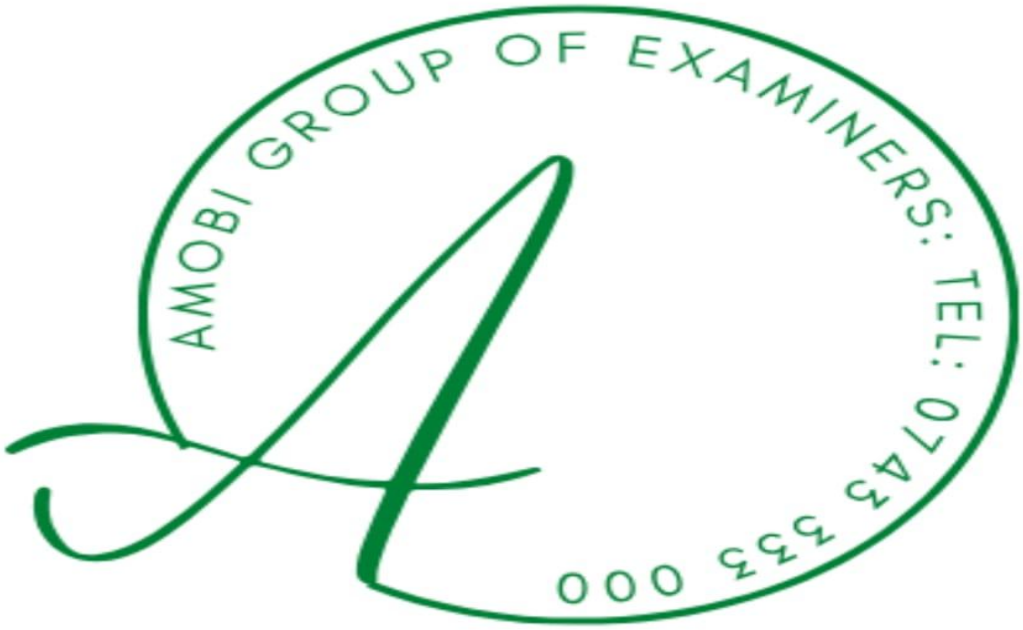
# FORM THREE MID-TERM TWO SERIES ONE EXAMS *(11 SUBJECTS TESTED)*




# FORM 3 MID TERM 2 SERIES 1 EXAMS

Prefer Calling Amobi Group of Examiners @

0743 333 000 or 0706 851 439

For Marking Schemes

***N/B** In Response to the Huge Costs Associated in Coming Up with Such/Similar Resources Regularly, We inform us All, MARKING SCHEMES ARE NOT FREE OF CHARGE. However Similar QUESTIONS, Inform of soft Copies, are Absolutely FREE to Anybody/Everybody. Hence NOT FOR SALE by Amobi Group of Examiners.*

# ORDER OF THE 11 SUBJECTS TESTED

## *(ALPHABETICALLY ARRANGED)*

1. AGRICULTURE
2. BIOLOGY
3. BUSINESS STUDIES
4. CHEMISTRY
5. C.R.E
6. ENGLISH
7. GEOGRAPHY
8. HISTORY
9. KISWAHILI
10. MATHS
11. PHYSCIS


*Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes*

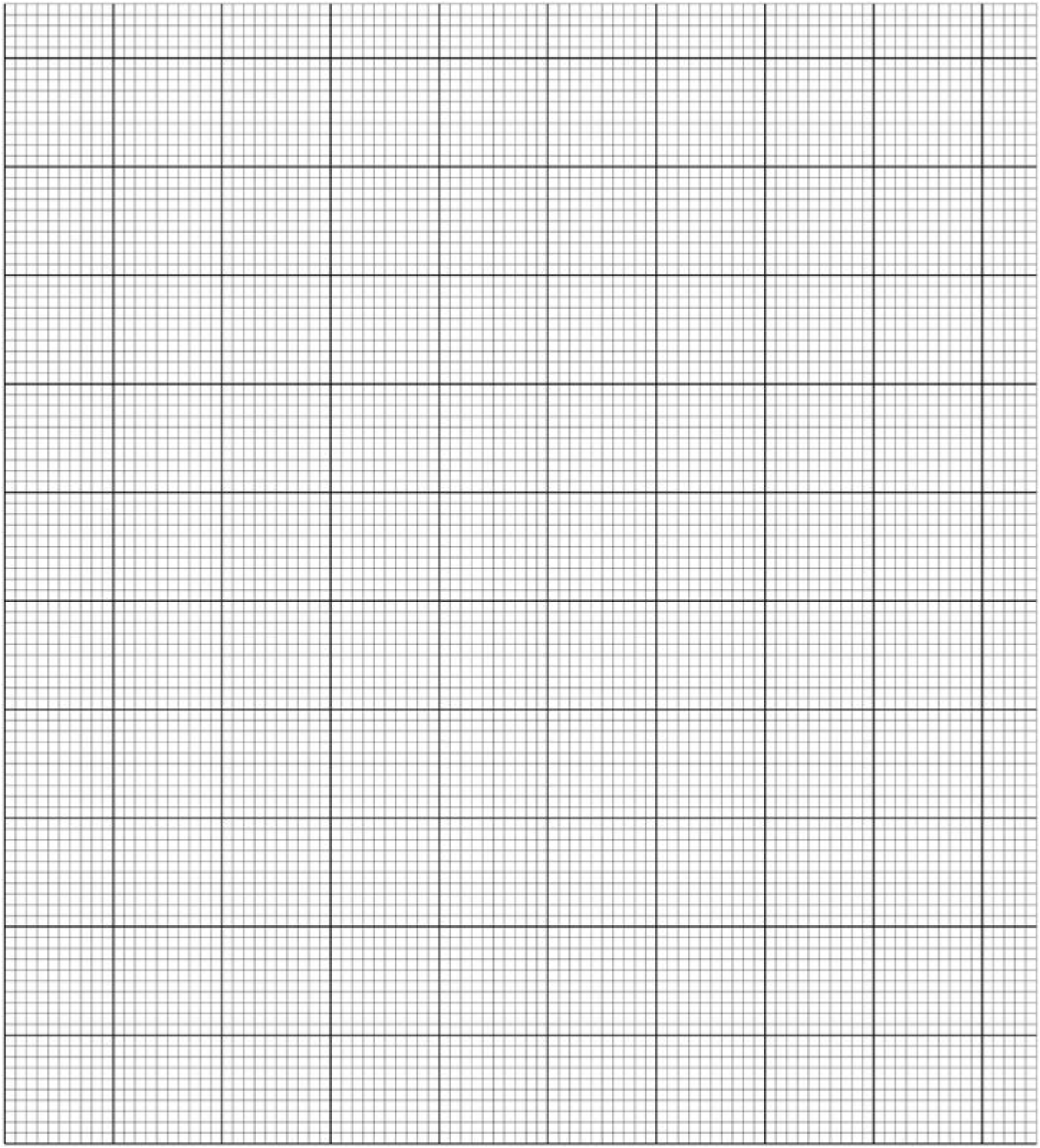
Amobi Group Of Examiners

Call Us @

0743 333 000 or 0706 851 439

**CALL 0743 333 000 OR 0706 851 439**

- Mid/End Term, Pre/Mock Exams
- K.C.S.E Prediction/Forecast Exams
- F1-F4 All Subjects Notes/Topical Qsns
- Updated Schemes of Work/Syllabus
- Acted Set Books Videos/ Guides
- Set Books Essays/Excerpts Qsns
- Past K.C.S.E Papers & Holiday Assignments
- 70 Biology Graphical/Essays Qsns
- 70 Biology Pictorial Practical Qsns
- Poetry & Ushairi Qsns.... e.t.c





*Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes*

# FORM 3 MID-TERM 2 SERIES 1 EXAMS

NAME:……...……

SCHOOL:……..

A.D.M NO:…….. DATE:……

SIGNATURE:……

442/1

AGRICULTURE

PAPER 1

FORM 3

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

**SECTION A (30MKS)**

1 State four factors which determines the farming systems adapted by farmers (2mks)

2. Give four reasons for sub in maize field (2mk)

3. Name two types of inventories in the farm (1mk)

4. State four negative of HIV/AIDS to agriculture (2mks)

5. State four effect of soil erosion (2mks)

6. State four deficiency symptoms of nitrogen in plants (2mks)

7. Highlight two effect of land title deed to farm (1mk)

8. State two methods of controlling headsmat in maize (1mk)

9. Give two forms of large scale farming practiced in Kenya (1mk)

10. State two ways in which parent rode influences soil characteristics (1mk)

11. Give four farming practices carried out to achieve minimum tillage (2mks)

12. State two characteristics of plantation farming (1mk)

13. Give three classes of weeds under growth cycle (1 ½ mks)

14. State four post-harvesting practices on crops (2mks)

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

15. List four advantages of mulching in Agriculture line (2mks)

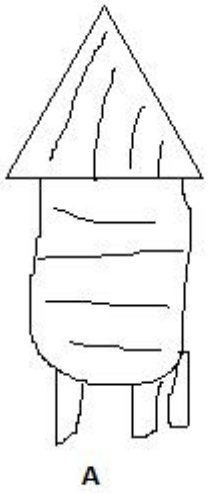
16. State three benefits of using certified seeds (2mks)

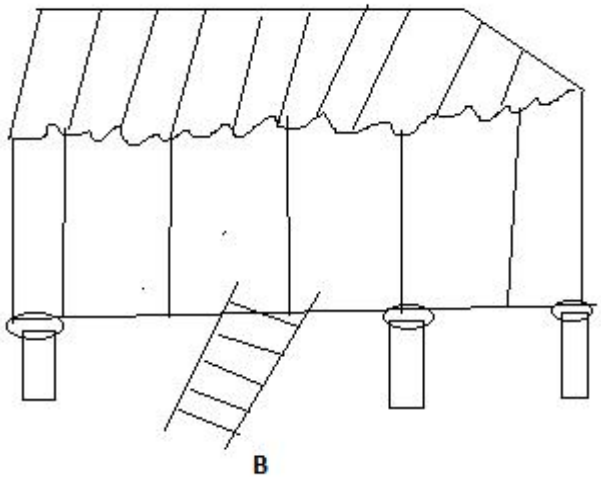
17. State four importance of air in soil (2mks)

18. State four factors used in classification of inorganic fertilizer (2mks)

19. State one cause of hard pan in soil

**SECTION B (20MKS)**
**Answer All questions**



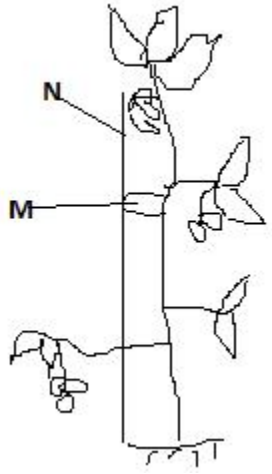

20. The diagram labeled A and B illustrate storage structures study the diagram carefully and answer the question that follows.

(a) Identify the structures (2mks)
A
B

(b) State four structural differences between (A and B)

(c) State four maintenance practices carried out on stradine (2mks)

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

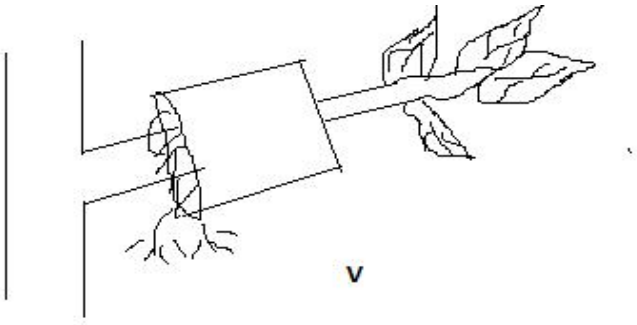



21. (a) Identify the practice illustrated (1mk)

(b) Name material used in N and M and then uses (2mks)

(c) List down four problems faced by a farmer who does not carry out the practice (4mks)

22. The diagram below illustrates a method of propagating some of the common field crop. Study the diagram and answer the questions that follows



(a) Identify the method illustrated (1mk)

(b) Name two field crop which can be propagated using above method (2mks)
(c) State two conditions to be ensured at point V to ensure full rooting (2mks)

**SECTION C 40MKS**

23. Discuss the production of bean under the following sub-headings (20mks)
    (a) Land preparation (4mks)
    (b) Selecting and treatment of planting materials (4mks)
    (c) Planting (4mks)
    (d) Field management practices (4mks)
    (e) Harvesting of bean (4mks)

24. State five advantages and disadvantages of overhead irrigation (10mks)
    (b) State factors used in choosing irrigation methods (5mks)
    (c) What are the uses of water in livestock farm (5mks)

25. What factors determine the number of secondary cultivation during land preparation (5mks)
    (b) Give reasons why minimum tillage may be carried out (6mks)
    (c) Explain the activities carried out in tertiary cultivation (6mks)
    (d) What are the factors that determine the depth of ploughing (3mks)

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

# FORM 3 MID-TERM 2 SERIES 1 EXAMS

NAME:……...……

SCHOOL:……..

A.D.M NO:…….. DATE:……

SIGNATURE:……

442/2

AGRICULTURE

PAPER 2

## TRIAL EXAM SERIES

FORM THREE

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

1. State four preparation practices carried out in a store before crop produce is brought in for storage (2mks)

2 Give problems associated with mineral deficiency imbalance in livestock (2mks)

3. State four factors that lowers the performance of an animal (2mks)

4. State one use of the following farm tools (2mks)
   (a) Pipe wrench

   (b) Sickle

   (c) Slasher

   (d) Tin snip

5. Explain briefly four factors that affect maintenance ration requirement of an animal (2mks)

6. Give four factors considered when selecting dairy goat (2mks)

7. State four features for inbreeding (2mks)

8. Define cross breeding in livestock production

9. Name four meat breeds of rabbit (2mks)

10. State the gestation period of the following animals (1mk)

    Saw -

    Cattle -

11. Outline four characteristic that enable camels to survive in desert (2mks)

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

12. Name two commercial feeds fed to layers (1mk)

13. (a) What organic causes Newcastle disease in birds (2mks)

(b) State four specific symptoms of Newcastle disease (2mks)

(c) Give 2 methods of controlling the disease (1mk)

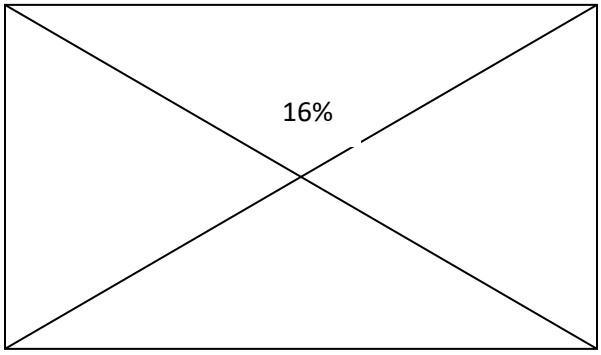
14. Give two feeding characteristics of goats which make them less vulnerable to internal Parasite (2mks)

15. Give two characteristics of roughages (1mk)

16. Mention two methods of preventing rusting in farm tools (2mks)

**SECTION B 20 MARKS**

17. The diagram below represents a method of ration computation. Study and answer the questions that follows




(a) Identify the method above (1mk)

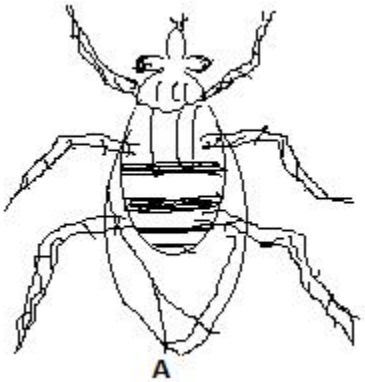
(b) In a practical lesson form three student of agriculture were supplied with the following specimens

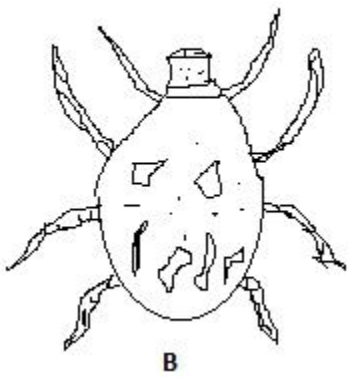
(i) crushed marshed labeled I

(ii) Bloodmeal labeled J

Calculate the quantity of the specimen I (8% DCP) and J 28% DCP) that can be mixed to make 150 kg of feed containing 16% DCP (4mks)

18. The diagram below illustrate external parasite study the diagram and answer the question that follow




Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

(a) Identify the two parasite labeled AB (2mks)

A

B

(b) Name one disease tramsimitted by A and B (2mks)

A

B

(c) Name the class of chemicals used to spray and control parasite Aand B (2mks)

A

B

(d) Mention two harmful effect of parasites A and B in livestock production apart from disease transmission (2mks)

A

B

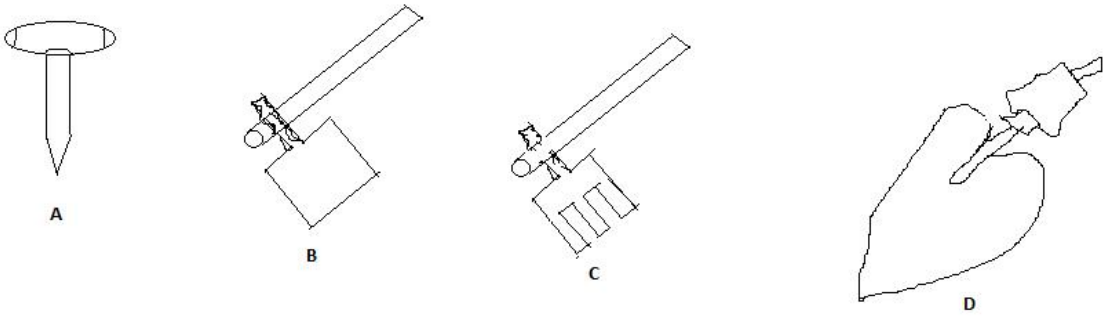
**SECTION C**

19. (a) Describe the desirable features of a grain store (10mks)
(b) Describe the importance of keeping healthy animal (10mks)

20. Describe the process of egg formation in poultry production with an aid of a diagram (20mks)

21. (a) Define parasite as it applies in livestock management stating animals mostly affected (4mks)
(b) What economic importance are parasite to livestock (10mks)
(c) Give 3 examples of internal and external parasite (6mks)

22. Diagram A, B, C, and D illustrate some farm tools and equipments




Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

(i) Give their names (2mks)

A

B

C

D

(ii) Give one function of each tools (2mks)

A

B

C

D

(iii) Classify each tools in appropriate category (2mks)

A

B

C

D

(iv) State one appropriate maintenance that can be done on tool A (1mk)

# FORM 3 MID-TERM 2 SERIES 1 EXAMS

NAME:……...……

SCHOOL:……..

A.D.M NO:…….. DATE:……

SIGNATURE:……

231/1

BIOLOGY

PAPER 1

## TRIAL EXAM SERIES

FORM THREE

| Question | Maximum score | Candidate's score |
|---|---|---|
| *1-29* | *80* | |

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

1. The scientific name of the cat is *FelisCatus* classify the cat into; (3mks)

   i) Kingdom……

   ii) Genus……

   iii) Species……

2. The figure below shows a structure of a tooth:



   (a) Identify the tooth: - (1 mk)

   (b) State how the tooth named in (a) is modified to perform its function:- (1 mk)

3. a) Name the hormone secreted in the human body when one takes in a large amount of water:- (1 mk)

   (b) Which disease results from inadequate production of the hormone named in (a) above? (1mk)

4. Give two structural features that can be used to separate a housefly, a millipede, and a tick into their respective classes. (2mks)

5. State three main functions of the stomach in human beings:- (3 mks)……..

   ……..…..

   ……

   ……..

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

6. It was found that during germination of bean seeds, 9.2 $cm^3$ of carbon IV Oxide was produced while 9.0 $cm^3$ of oxygen was used up.

   (a) (i) Calculate the respiratory quotient of the reaction:- (2 mks)

   ……

   ……

   ……

   (ii) Identify the substrate being met abolished:- (1 mk)

   ……

   ……

   (b) In which part of the cell does glycolysis occur? (1 mk)

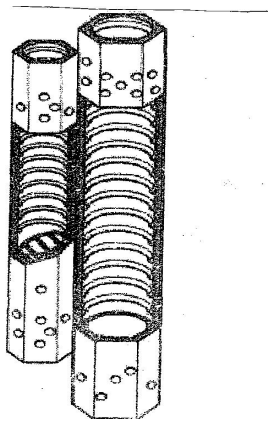
7. State three functions of the mammalian blood other than transport (3mks)

8. Other than sexual intercourse name the other ways by which HIV/AIDS is spread (3mks)

9. State three characteristics features of an efficient respiratory surface (3mks)

10. State three environmental factors that affect the rate of stomatal transpiration (3mks)

11. The cells shown below are adapted for transport in flowering plants.



(a) Name the tissue in which these cells are found. (1 mk)

……

……

(b) Identify and explain **<u>two</u>** observable features of these cells that adapt them to their role in transport. (2mks)

……

……

……

12. Name two areas in human body where active transport takes place. (2mks)

13. State the functions of the following cell organelles: (2mks)
(a) Nucleolus.

(b) Plasma membrane

14.Distinguish between guttation and transpiration (2mks)

15. What are the functions of the following parts of a light microscope? (3mks)

(a) Eye piece lens

(b) Condenser

(c) Diaphragm

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

16. (a) What is peristalsis? (1mks)

(b) Explain how the process above is brought about. (2mks)

17. (a) State **three** structural differences between arteries and veins in mammals (3mks)

(b) Name a disease that causes thickening and hardening of arteries (1mk)

18. Identify **two** forces that help in upward movement of water in plants (2mks)

19. State **two** reasons why lipids are rarely used as a respiratory substrate compound to Carbohydrates. (2mks)

20. The equation below represents a metabolic process that occurs in the mammalian liver: (2mks)

Amino acids organic compound + urea

(a) Name the process

(b) What is the importance of the process to the mammals?

21. (a) Definethe term balanced diet. **(2mks)**

……

……

(b) Statethe importance of roughage in a diet. **(1mark)**

……

……

**22. (a)** Howdo the following factors affect the rate of diffusion? **(3marks)**

(i) Surface area to volume ratio

……

……

(ii) Diffusion gradient

……

……

(iii)Temperature

……

……

23. Name any three specialized plant cells. **(3marks)**

……

……

……

24. Name **three** sites where gaseous exchange takes place in terrestrial plants. (3 marks)

……

……

……

25. A student in form three caught an organism which had the following characteristics

i) Body divided into two parts.

ii) Simple eyes.

iii) Eight legs.

Classify the organism up to the class level. (3 marks)

26. (a) Distinguish between the counter flow and parallel flow system in gaseous exchange(1mk)

(b) Which of the two systems mentioned in (a) above is efficient? Give a reason (2mks)

27. Name the enzyme, the vitamin and the metallic ions required in the clotting of blood. (3mks)

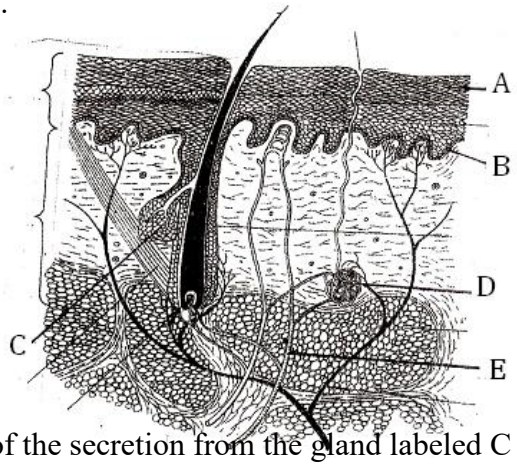
(i) Enzyme

ii) Vitamin

iii) Metallic ion

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

28. The figure below is a photomicrograph of a section of mammalian skin. Study it and answer the questions that follow.




(i) State two functions of the secretion from the gland labeled C **(2marks)**

……

……

(ii) Explain the behaviour of structure E when environmental temperature falls to $10^0$c.

**(2marks)**

29. Astronauts from the outer space brought a material to earth. Explain how you would establish if the material is living or non-living. **(2marks)**

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

# FORM 3 MID-TERM 2 SERIES 1 EXAMS

NAME:……...……

SCHOOL:……..

A.D.M NO:…….. DATE:……

SIGNATURE:……

231/2

BIOLOGY

PAPER 2

FORM THREE

***Instructions To Candidates***

*Write your name and index number in the spaces provided above.*
*Sign and write the date of examination in the spaces provided above.*
*Answer all questions in section A the spaces provided*
*In section B, answer question 6 (compulsory) and either question 7 or 8.*
*You are required to spend the first 15 minutes of the time allocated for this paper reading the whole paper carefully before commencing your work.*

**For examiners use only**

| Section | Question | Maximum Score | Candidate's Score |
|---|---|---|---|
| A | 1 | | |
| | 2 | | |
| | 3 | | |
| | 4 | | |
| | 5 | | |
| B | 6 | | |
| | 7 or 8 | | |
| | **Total** | 80 | |

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

**SECTION A (40 MARKS)**
**Answer ALL the questions in this section in the spaces provided**

1. a) Distinguish between natural and acquired immunity (1 mark)

……

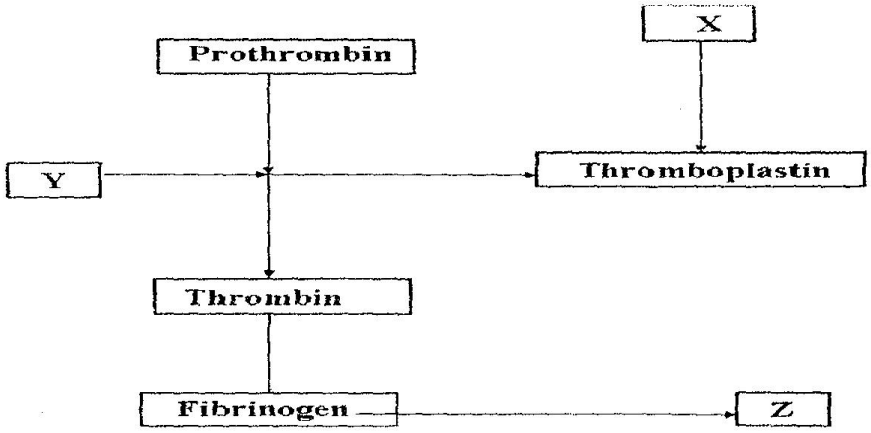
……

b) Define the term allergy (1 mark)

……

……

c) The chart below shows the blood clotting mechanism




i) Name the blood cells represented by X (1mark)

……

……

ii) The end product of the mechanism represented by Z (1 mark)

……

……

……

d) Explain how the following environmental factors increase the rate of transpiration.

i) Temperature (2 marks)

……

……

……

ii) Humidity (1 mark)

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

……

……

……

iii) Atmospheric pressure (1 mark)

……

……

……

2. A student wanted to observe human red blood cells under a light microscope. He put l0ml of solution X,Y and Z in three boiling test tubes. The solutions were of different concentration .In each of the test tubes he put three drops of blood sample. The experiment was left to stand for 30 minutes. He placed one drop of solution X on glass slide and observed under the microscope. The same procedure was repeated for solutions Y and Z.

He made the following observation.

| **Solution** | **Observation** |
|---|---|
| X | Normal Cells |
| Y | Wrinkled Cells |
| Z | No cells observed |

(a) What was the physiological process observed. (1mk)

……..

(b) Explain why red blood cells observed in solution Y were wrinkled. (3mks)

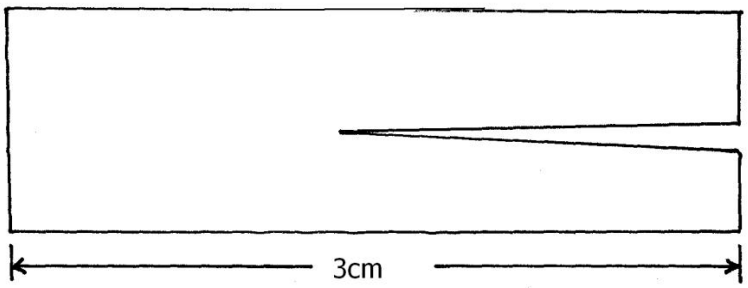
……..

……..

……..

……..

(c) A 3cm long piece of kale (sukuma wiki) stem was cut halfway along its length as shown below.



(i) If the piece was placed in solution Z for 30 minutes, its shape changed . Using a pencil draw a diagram in the space provided to show the expected change. (1mk)

……..

……..

……..

……..

(ii) Explain the results obtained in C(i) above. (3mks)

……..

……..

……..

……..

3. During an ecological study, students collected and marked 120 ants and released them. After 48 hours, the students captured another 90 ants, 20 of which had been marked previously.

(a) How many ants were there in the compound? Show your working. (3mks)

.....

.....

.....

.....

.....

.....

(b) What are the limitations of this method in sampling animal populations. (4mks)

.....

.....

.....

.....

.....

(c) State two other methods which could be used to determine the population. (1mk)

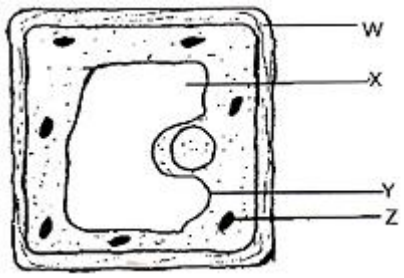
.....

.....

……

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

4.Examine the diagram below carefully and use it to answer the questions that follow.




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

X:

……

Y:

……

Z:

……

(b) State the substance by which the part labeled W is made up of **(1mark)**

……

……

(c) Name the process by which mineral salts move into the structure labeled X **(1mark)**

.....

.....

(d) Explainwhat happens to a red blood cell when placed in distilled water. **3marks)**

……

……

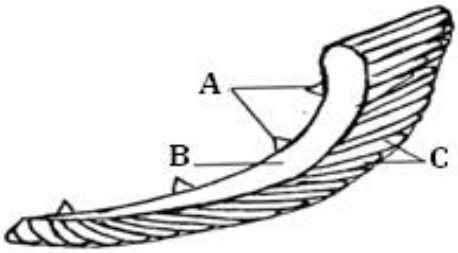
……

5.a)Name twosites where gaseous exchange takes place in an aquatic plant. **(2marks)**

……

……

The diagram below represents the gills of a bony fish. Study it and answer the questions that follow.




(i) Name the parts labeled A, B, and C **(3marks)**

A:……

B:……

C:……

(ii) Statethe function of the part labeled A **(1mark)**

……

(iii) Explain how the part labeled C is adapted to perform its functions **(2marks)**

……

……

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

**Question 6**

Two individuals A and B drunk volumes of concentrated solution of glucose. The amount of glucose in their blood was determined at intervals. The results are shown in the table below.

| Time (minutes) | Glucose level in blood mg / 100cm$^3$ | |
|---|---|---|
| | A | B |
| 0 | 87 | 84 |
| 15 | 110 | 123 |
| 30 | 135 | 170 |
| 45 | 115 | 188 |
| 60 | 100 | 208 |
| 90 | 95 | 202 |
| 120 | 90 | 144 |
| 150 | 88 | 123 |

a) On the grid provided, plot graph of glucose level in blood against time on the same axis.

**(6marks)**

b) What is the concentration of glucose in the blood of A and B at the 20$^{th}$ minute? **(1mark)**

……

……...……

…….

c) Explain why the glucose level in person A stopped rising after 30minutes while it continued to rise in person B. **(2marks)**

……

……

……

……

……

d) Account for the decrease in the glucose level in person A after 30minutes and person B after 60minutes. **(4marks)**

……

……

……

……

e) Name the compound that stores energy released during oxidation of glucose. **(1mark)**

……

……

f) State five factors that determine energy requirements in human **(5marks)**

……

……

……

……

……

……

……

……

g) Name the organ in which control of blood sugar level mainly takes place. **(1mark)**

……

……

7. (a) State four characteristics of gaseous exchange surfaces. (4mks)
   (b) Describe the mechanism of gaseous exchange in a mammal. (l6mks)

8. (a) What is meant by the term digestion? (2mks)
   (b) Explain the role of bile in the digestion of food. (4mks)
   (c) Describe the digestion of protein in the human body. (l4mks)

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

# FORM 3 MID-TERM 2 SERIES 1 EXAMS

NAME……ADM. NO ……CLASS:…….

DATE……..

231/3
BIOLOGY
PAPER 3
PRACTICAL
.
**TIME: $1^{3}/_{4}$HRS**

.

.

## Instruction to Candidates

- Write your Name, Adm. No., Class and Date in the spaces provided
- Answer all the questions
- You are required to spend the first 15 minutes of the $1^{3}/_{4}$Hrs around for this paper reading the whole paper carefully before commencing your work
- Answers must be written in the spaces provided in the question paper. Additional Pages must not be inserted.
- The paper consists of six printed pages.

**FOR EXAMINER'S USE ONLY**

| QUESTION | MAXIMUM SCORE | CANDIDATE'S SCORE |
|---|---|---|
| 1<br>2<br>3 | 13<br>13<br>14 | |
| **TOTAL SCORE** | **40** | |

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

1. You are provided with a suspension labelled W
   a) Using the reagents provided only, carry out food test and complete the table below (12 mks)

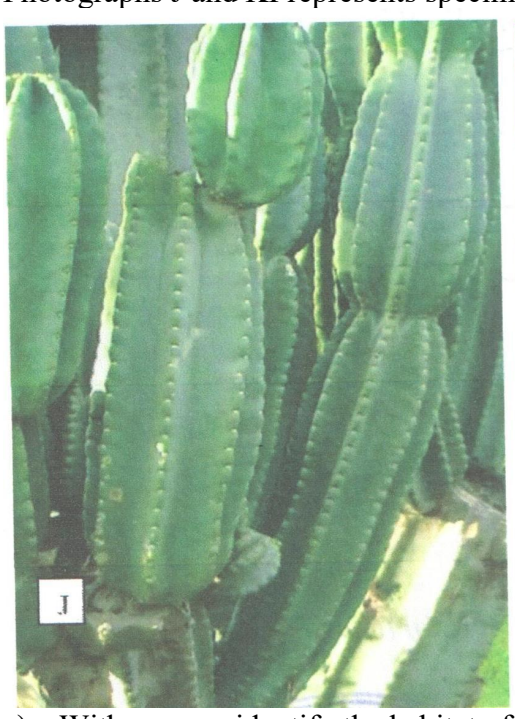
| Food substance | Procedure | Observations | Conclusions |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |

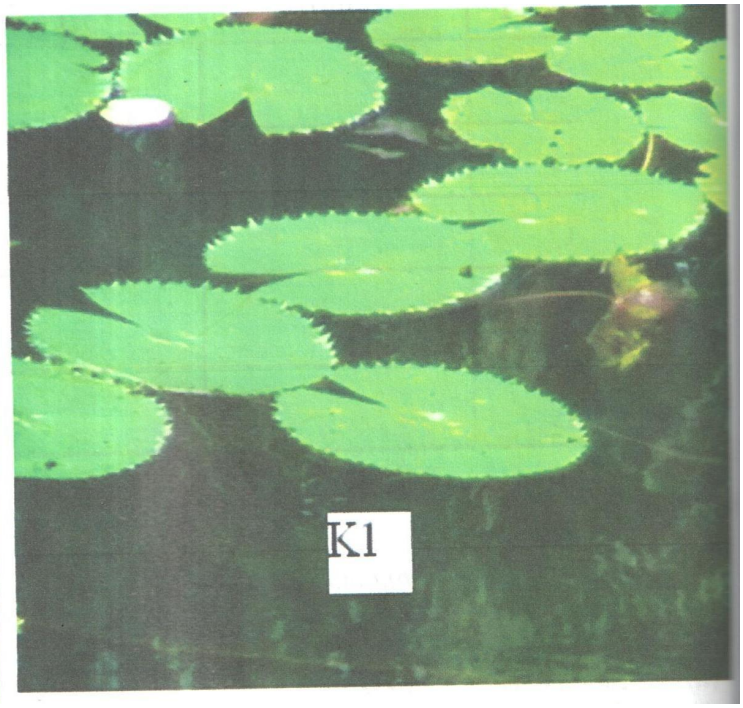
   b) i) Name the enzymes that are required to digest the suspension W in the alimentary canal (1mk)

ii) State the medium under which the enzymes named in a(i) above functions best.(1mk)

c) Name the deficiency diseases a child that is fed on the above suspension W only is likely to suffer from (2mks)

2. Photographs J and KI represents specimens which were obtained from different habitats.




a) With reasons identify the habitat of specimen J and KI (4mks)

KI –

Reason(s)

J –

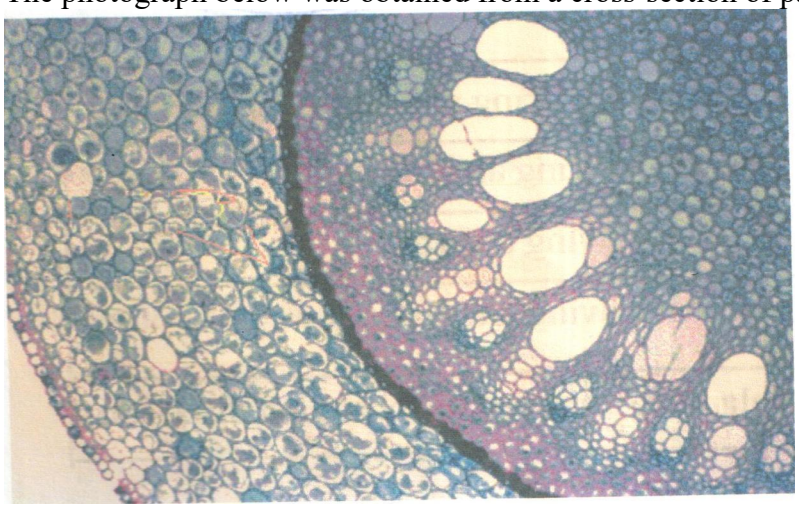
Reason(s)

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

b) Give the term used to describe plants found in the same habitat with specimen J (1mk)

c) State three modifications found in the stomata of leaves found in the habitat of specimen J (3mks)

d) The photograph below was obtained from a cross-section of part of specimen $K_1$

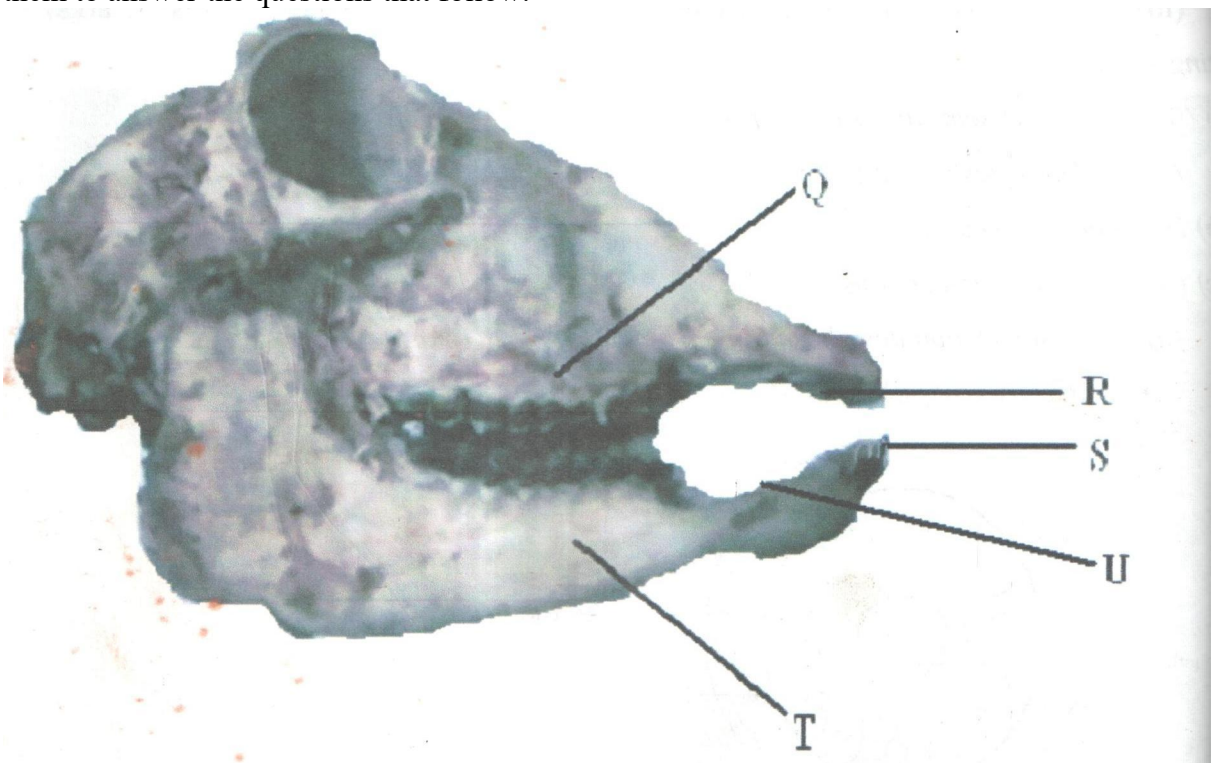


i) From which part of plants was the cross section obtained? (1mk)

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

iii) Draw a plan diagram of the cross-section shown and label any four parts (2mks)

3. Below are photographs named J, X, Y and Z representing parts of a certain animal. Study them to answer the questions that follow.




Above: Specimen J










©mukundialliance

a) Name the parts labeled in the photograph above as: (4mks)
   Q –

   R –

   S –

   T –

b) What is the function of part labelled U? (1mk)

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

c) What is the mode of feeding of the animal from which the specimens above were obtained? (1mk)

d) Fill the table below to distinguish between specimen X, Y and Z above (9 mks)

| **Specimen** | **Name** | **Adaptation** | **Function** |
|---|---|---|---|
| X | | | |
| Y | | | |
| Z | | | |

# FORM 3 MID-TERM 2 SERIES 1 EXAMS

1. Identify four factors to consider when choosing a suitable method of product promotion (4 marks)

……

……

……

……

……

2. Give four features of a partnership type of business (4 marks)

……

……

……

……

……

……

3. Indicate with a tick(✓) in the appropriate column the business environment associated with each of the factors mentioned below. (4 marks)

| | FACTOR | INTERNAL | EXTERNAL |
|---|---|---|---|
| i) | Government policy | | |
| ii) | Technological environment | | |
| iii) | Financial resources | | |
| iv) | Firm structure | | |

4. State four reasons why a seller might decide to sell goods on credit (4 marks)

……

……

……

……

……

……

5. Highlight four circumstances under which face to face communication will be necessary (4 marks)



Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

……

……

……

……

……

……

6. Highlight four factors that may be considered before deciding to use a train instead of a matatu. (4 marks)

……

……

……

……

……

……

7. Indicate by writing the word "TRUE" or "FALSE" against the statement describing characteristics for goods and services. (3 marks)

| | STATEMENT | TRUE or FALSE |
|---|---|---|
| a) | Goods are inseparable from their producers | |
| b) | Services can be standardized in form of size, appearance or quality | |
| c) | Services are experienced not owned | |
| d) | Goods are not always perishable | |
| e) | Services are highly perishable | |
| f) | Goods can change in value overtime | |

8. Outline five ways the government can protect consumer from being exploited(4marks)

……

……

……

……

……

9. The following are types of advertising: Product advertising, competitive advertising, informative advertising and institutional advertising. In the table below, match each type with its appropriate description. (4 marks)

| | TYPE OF ADVERTISING | DESCRIPTION |
|---|---|---|
| a) | | Promotes the name of the manufacturer |
| b) | | Persuades the consumers to buy a product |
| c) | | Creates awareness about a product |
| d) | | Promotes a particular brand of a product |

10,

Outline four barriers to written communication. (4 marks)

……

……

……

……

……

……

11. For each of the following cases, name the type of utility. (4 marks)

| | CAES | Utility |
|---|---|---|
| a) | Keeping maize in a warehouse for two months | |
| b) | Transporting fish by rail to Uganda | |
| c) | Buying a motorbike on hire purchase | |
| d) | Producing sugar from sugarcane | |

12. Highlight the procedure of getting an insurance policy(4marks)

……

……

……

……

13. State four reasons why few Kenyans take out life assurance policies. (4 marks)

……

……

……

……

……

……

14. For each of the descriptions given below, indicate in the appropriate document as used in home trade. (4 marks)

| | function | document |
|---|---|---|
| a) | Responds to a specific letter of inquiry | |
| b) | Prepared by transporting company on behalf of the seller | |
| c) | Has details of goods returned by a customer | |
| d) | Requests the buyer to pay for goods delivered | |

15. Outline four way a person can identify a business oportunity (4 marks)

……

……

……

……

……

……

16 Highlight any four ethical practices that should be observed by producers when advertising their goods(4marks)

……

……

……

……

……

……

17. State four benefits that consumers get from small scale retailers(4 marks)

……

……

……

……

……

……



Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

18. Explain the difference between limited liability and unlimited liability (2 marks)

……

……

……

……..

**END**

# FORM 3 MID-TERM 2 SERIES 1 EXAMS

NAME:……...……

SCHOOL:……..

A.D.M NO:…….. DATE:……

SIGNATURE:……

565/2

BUSINESS

PAPER 2

FORM 3

**INSTRUCTIONS TO CANDIDATES:**

- Answer any FIVE questions.
- Write your answers in the answer sheet provided
- All questions carry equal marks

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

1. a) Explain **five** benefits that would accrue to a businessman who uses a Liner rather than Tramps Steamers. (10mks)
   b) Using a diagram, describe the effects of outward shift in supply curve on equilibrium price and quantity. (10mks)
2. a) Explain ***four*** measures that may be taken by the government to promote her export. (8mks)
   b) The following Trial Balance was extracted from the books of Kisumu Auto spares as at 31st Oct 2011

**Kisumu Auto Spares**
**Trial Balance**
**As at 31st Oct 2011**

| | DR | CR |
|---|---|---|
| Capital | | 653,560 |
| Motor vehicle | 603,000 | |
| Equipment | 200,600 | |
| Furniture | 94,400 | |
| Debtors | 75,900 | |
| Creditors | | 74,300 |
| Carriage on sales | 14,400 | |
| Discount Received | | 26,400 |
| Salaries | 12,400 | |
| Rent Income | | 12,600 |
| Sales | | 319,400 |
| Purchases | 300,000 | |
| Advertising | 22,200 | |
| Rates | 9,400 | |
| Stock 1-11-2010 | 61,500 | |
| Bank | | 412,600 |
| Cash | 105,060 | |
| **TOTAL** | **1,498,860** | **1,498,860** |

Stock on 31st October 2011 was sh. 80,200

**Required,**

(i) Prepare Trading ,Profit and Loss account for the year ended 31st Oct 2011

(ii) Prepare Balance sheet as at 31st October 2011 (12mks)

3. a) Explain **Five** circumstances under which a manufacturer would find it advisable to distribute his goods through wholesalers. (10mks)
   b) Explain ***five*** functions of the central bank of Kenya in the Economy. (10mks)
4. a) Distinguish between shares and debenture as a source of finance. (10mks)
   b) Outline five circumstances under which a firm will be located near the market for its products. (10mks)
5. a) The following information relates to Bizna Distributor Company for the year ended 31st Dec 2009

| | shs |
|---|---|
| Gross profit | 600,000 |
| Opening stock | 285,000 |
| Sales | 2,400,000 |
| Purchases | 1,830,000 |
| Expenses | 360,000 |
| Closing stock | 315,000 |
| Fixed assets | 400,000 |
| Debtors | 900,000 |
| Bank | 35,000 |
| Current liabilities | 438,000 |

**Required calculate**

i) Margin (2 ½ mks)
ii) Rate of stock turnover (2 ½ mks)
iii) Return on capital employed (2 ½ mks)
iv) Current ratio (2 ½ mks)

   b) Explain **five** ways in which the Entrepreneur contributes to the production of goods. (10mks)
6. a) Describe **five** means of payment that a trader may use to settle business debts. (10mks)
   b) Explain **five** indicators of under development in Kenya. (10mks)



Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

# FORM 3 MID-TERM 2 SERIES 1 EXAMS

NAME:……...……

SCHOOL:……..

A.D.M NO:…….. DATE:……

SIGNATURE:……

233/1

CHEMISTRY

PAPER 1

FORM 3

**INSTRUCTIONS TO CANDIDATES:**

Answer ALL the questions

Mathematical tables and electronic calculations may be used

All working MUST be clearly shown where necessary

**FOR EXAMINER'S USE ONLY:**

| Questions | Max. score | Candidates score |
|---|---|---|
| **1 - 27** | **80** | |

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

1. a) Distinguish between ionization energy and electron affinity. (2mks)

……

……

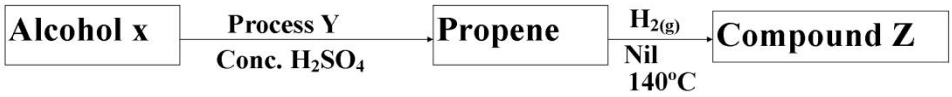
……

b) The atomic number of A and B are 9 and 17 respectively. Compare the electron affinity of A and B. Explain . (1mk)

……

……

2. Use the reaction scheme below to answer the questions that follow.




i) Draw the structure of alcohol X. (1mk)

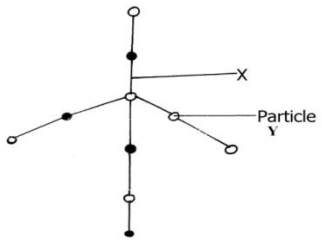
ii) Name process Y. (1mk)

……

……

iii) Write the molecular formula of the 5th member in which propene belong. (1mk)

3. Silicon (IV) oxide has a structure similar to that of diamond. Part of the structure is shown below.




a) What does x represent? (1mk)

……

b) What type of structure is shown by the diagram? (1mk)

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

……

……

c) Predict one physical property of silicon (IV) oxide and explain how it is related to its structure. (1mk)

……

……

4.Describe how a dry solid sample of lead (II) chloride can be prepared using the following reagents dilute nitric (V) acid dilute hydrochloric acid and lead (II) carbonate. (3mks)

5a) State Graham's law of diffusion. (1mk)

……

……

b)Ammonia gas diffuses 1.41 times faster than gas $XH_3$.Determine the relative atomic mass of element X.( H = 1 , N = 14) (2mks)

6.An ore of iron wasfound to contain 7g of iron and 3g. of oxygen.( fe = 56 O =16)

a) Workout its emprical formula. (2mks)

.....

.....

.....

b) Write a balanced equation for reaction of the oxide in (a) with hot carbon. (1mk)

.....

7. Carbon (iv) Oxide can undergo the changes below.

$$CO_{2(s)} \underset{B}{\overset{A}{\rightleftharpoons}} CO_{2\,(g)}$$

a) What are process A and B?

A.....( 1mk)

B.....(1mk)

b)Suggest one use of carbon (iv) oxide that utilizes process A and B. (1 mk)

.....

8.The table sows the PH values of solutions A to E

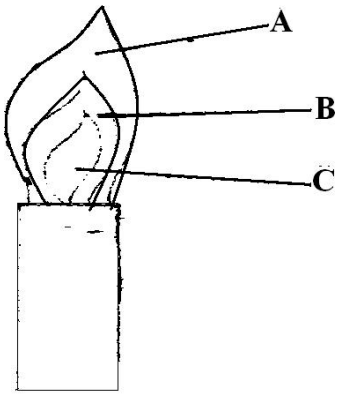
| Solution | A | B | C | D | E |
|---|---|---|---|---|---|
| PH | 6 | 13 | 2 | 10 | 7 |

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

b) Which of the solutions contains the largest number for hydroxide ions (1mk)

c) What will be the PH value of the mixture of D and E. (1mk)

9.The diagram below shows a Bunsen Burner when in use.




Which of the labeled parts is used for heating? Give a reason.(2mks)

10.The table below shows the atomic numbers of elements T, U, V and W. Study it and answer the questions that follow. The letters are not the actual symbols of the elements.

| Element | T | U | V | W |
|---|---|---|---|---|
| Atomic number | 13 | 16 | 17 | 20 |

(a) What type of bond would be formed between:-

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

(i) elements U and W (1mk)

……

(ii) elements V and U (1mk)

……

(b) Which of the elements are metals. (1mk)

11.Oxygen gas can be prepared in the laboratory by catalytic decomposition of hydrogen peroxide.

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

……

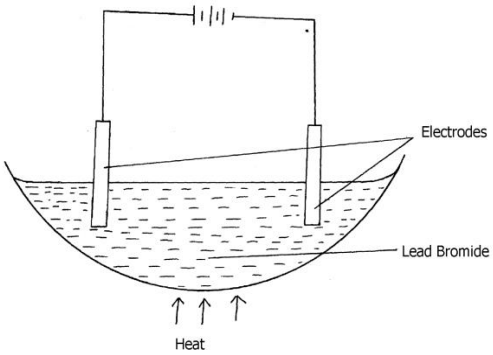
(b) State the Name of the suitable catalyst used. (1mk)

……

(c) Give one industrial use of oxygen (1mk)

……

12. The d diagram below shows electrolysis of lead bromide



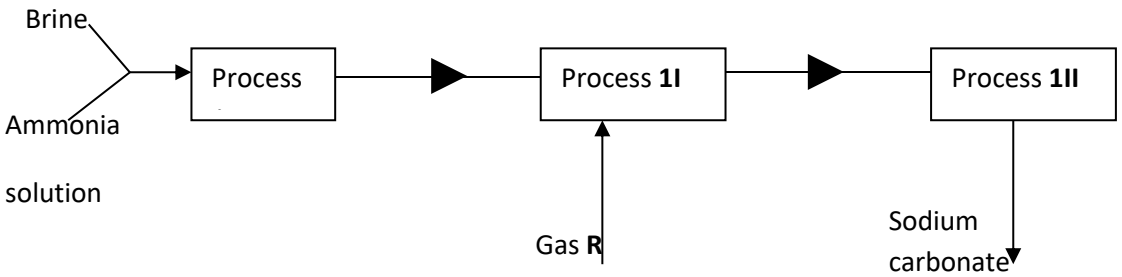

a) Label the anode. (1mk)

b) Write half equations to shows reactions at cathode. (1mk)

c) State one application of electrolysis. (1mk)

.....

13.Below is a simplified scheme of solvary process. Study it and answer the questions that follow:




(a) Identify gas **R**..... (1mk)

(b) Write an equation for process **III**

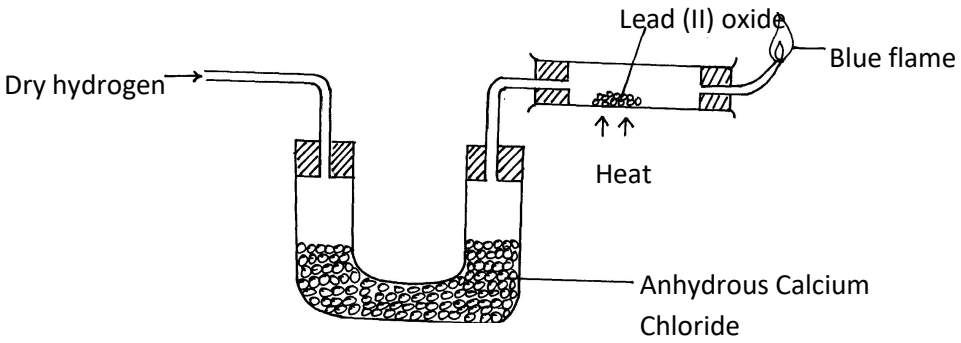
(1mk) .....

.....

(c) Give **one** use of sodium carbonate (1mk)

.....

14. The set-up below was used to investigate the properties of hydrogen




(i) State the observations that was made in the combustion tube as the reaction progressed to completion (2mks)

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

(ii) Write equations for the reactions ;

I) In the combustion tube (1mk)

……

II) At the jet of the delivery tube (1mk)

……

III) State the properties of hydrogen that were investigated (2mks)

……

15.Classify the process below as chemical or physical changes (2mks

| **Process** | **Physical or chemical change** |
|---|---|
| (a) Fractional distillation | |
| (b) Displacement reaction | |
| (c) Sublimation | |
| (d) Neutralization | |

16.Iron reacts with oxygen in the presence of moisture to form hydrated iron (III) oxide. $Fe_2O_3.2H_2O$

(a) What name is given to the process that produces hydrated iron (III) oxide? (1 mk)

(b) What does the term 'hydrated' mean? (1 mk)

(c) Name one method used to prevent corrosion of iron. (1 mk)

17.The table **below** gives elements represented by letters which are not the actual symbols.

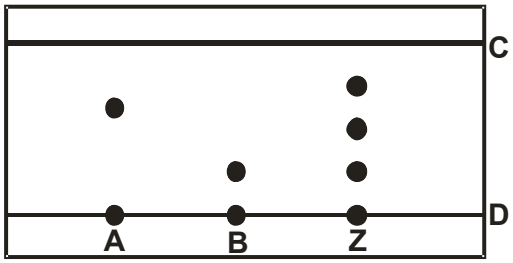
| Element | U | V | W | X | Y | Z |
|---|---|---|---|---|---|---|
| Atomic No. | 8 | 12 | 13 | 15 | 17 | 20 |

(i) Select an element that can form divalent anion. (1 mark)

(ii) What is the structure of the oxide of **W**? (1 mark)

(iii) Compare the atomic radius of **W** and **X**. (1 mark)

18.Spots of three pure pigments A,B and mixture Z were placed on a filter paper and allowed to dry. The paper was then dipped in a solvent. The results obtained were as on the paper chromatogram.




i) Identify;

a) Baseline. (1mark)

……

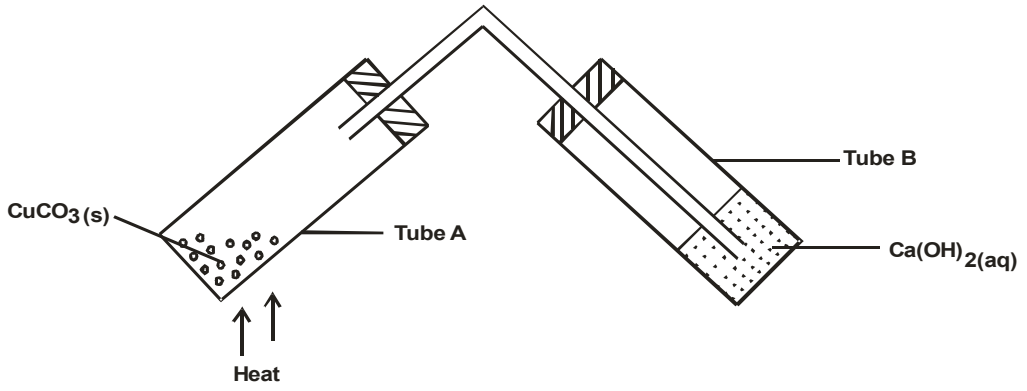
b) Solvent front. (1mark)

……

ii) Which pure pigment was component of Z.? (1mark)

……

19.The following was used to investigate the effect of heat on a sample of Copper(II) Carbonate.



a) State the observation made in test tube. (2 marks)

A ……

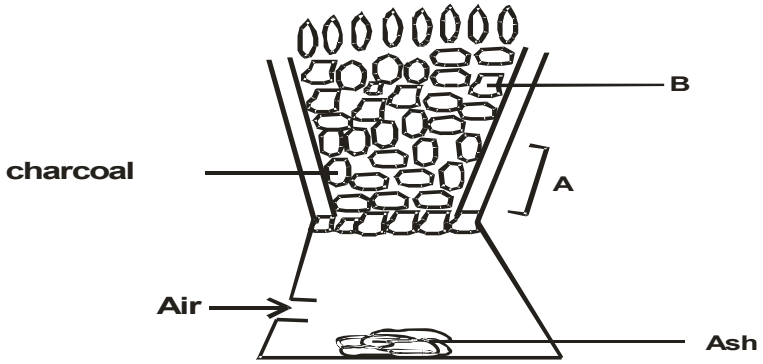
B……

b) Write equation for the reaction that occurs in tube A. (1mark)

……

20. Sketch a graph of temperature time for a pure substance A with a melting point of $20^0$C and boilingpoint of $90^0$C and it is heated from $0^0$C to $100^0$C. (2marks)

21.The diagram below shows a burning "jiko" in a room which has sufficient supply of oxygen.




i) Using chemical equations, explain what happens at A and B. (2marks)

……

……

……

ii) State the main danger of emitting excess carbon (IV) oxide into the atmosphere. (1mark)

……

……

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

22. 3.22g of hydrated Sodium Sulphate, $Na_2SO_4{}^{o}X\ H_2O$ were heated to a constant mass of 1.42g, determine the value of X in the formula. (Na = 23, S = 32, O = 16, H=1). (2 mks)

23.a)The atomic number of Sulphur hydrogen and oxygen are 16, 1 and 8 respectively. Write the electron arrangement of Sulphur in the following substances.

(i) $H_2S$…… (1 mk)

(ii) $SO_3^{2-}$…… (1 mk)

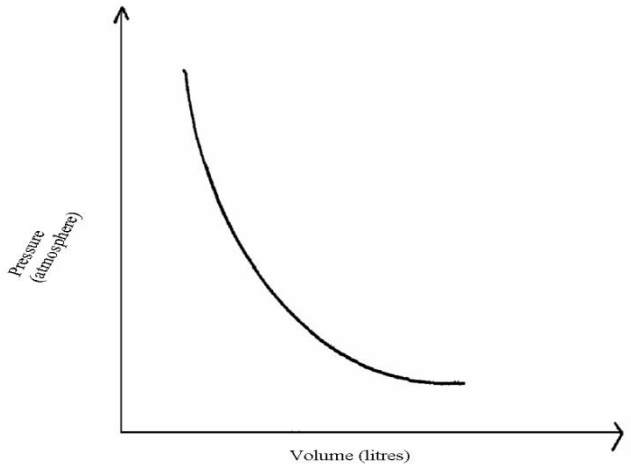
(b)State the number of neutrons and electrons in the species of Aluminum shown below:

$^{27}_{13}Al^{3+}$

Neutrons ……..( 1mk)

Electrons …….( 1 mk)

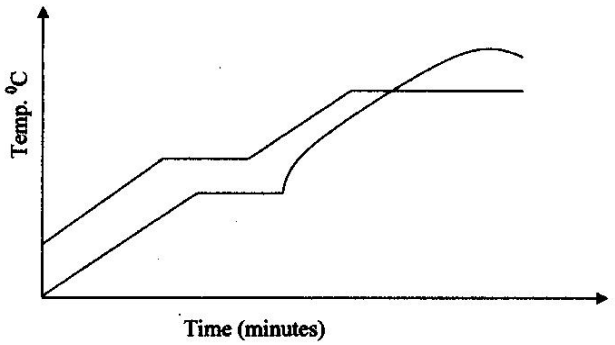
24.The graph below shows the behaviour of a fixed mass of a gas at constant temperature.




(i) What is the relationship between the volume and the pressure of the gas. (1 mk)

(ii)12 litres of oxygen gas at one atmosphere pressure were compressed to 2.5 atmospheres pressure at constant temperature. Calculate the volume occupied by the oxygen gas. (2 mks)

25.Two samples of a similar substance from different containers were investigated. The graph below represents the variation of temperature with time when heated.




a) Explain the variation in the curves of:

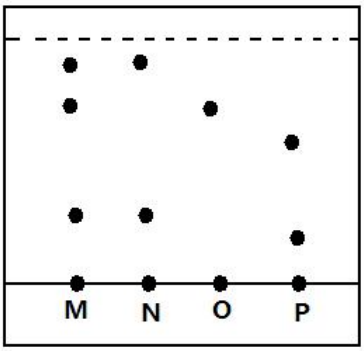
Sample I……
……..(1mk)

Sample II……
…… (1mk)

b) Common salt is sprinkled on roads during winter in temperate countries.

Explain.(1mk

26.Study the diagram below and answer the questions.

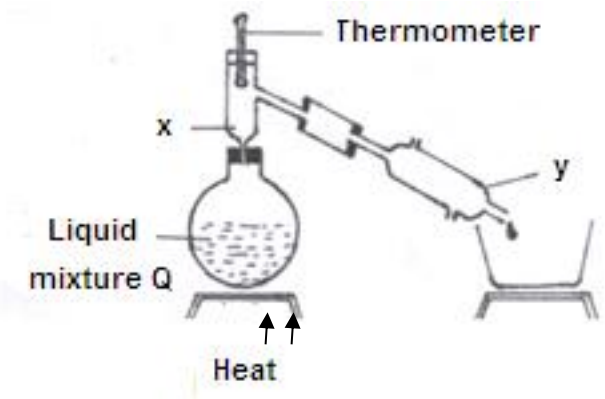



a) On the diagram mark the base line. (1mk)

b) Name the dyes which are in M. (1mk)

c) Which mixture of dyes has the dye with lowest solubility? Explain. (1mk)

27.Study the diagram below and answer the questions that follow. The diagram shows the method used to separate components of mixture Q.




a) Name X and Y. (1mk)

X……

Y……
…

b) What is the purpose of apparatus X? (1mk)

c)Show the direction of flow of cold water used for cooling the vapour formed. (1mk)

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

# FORM 3 MID-TERM 2 SERIES 1 EXAMS

NAME:……...……

SCHOOL:……..

A.D.M NO:…….. DATE:……

SIGNATURE:……

233/2

CHEMISTRY

PAPER 2

**INSTRUCTIONS TO CANDIDATES:**

Write your name and index number in the spaces provided above
Answer ALL the questions in the spaces provided
Mathematical tables and electronic calculations may be used
All working MUST be clearly shown where necessary

**For examiner's use only:**

| Questions | Max. score | Candidates score |
|---|---|---|
| **1** | | |
| **2** | | |
| **3** | | |
| **4** | | |
| **5** | | |
| **6** | | |
| **7** | | |
| | | |
| Total score | **80** | |

1. (a) Study the following part of periodic table chart and use it to answer the questions that follow. The letters are not the actual symbols of the elements.

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | A | | |
| | | | | | | | | |
| | S | | C | | | D | E | |
| F | G | | | | | | | |
| | | | | | | | H | |
| | | | | | | | | |

(i) Which elements form ions with charge of -2?Explain (2mks)

……

……

(ii) If the oxides of B and D are separately dissolved in water, what effect will their aqueous solution have on litmus. (2mks)

……

……

(iii) How would you expect the ionic reactions of C and E to compare? Explain (2mks)

……

……

(iv) Write the formula of the compounds formed between elements G and H (1mk)

……

……

(v) In terms of structure and bonding, explain why the oxide of D has a lower melting point than the oxides of B. (2mks)

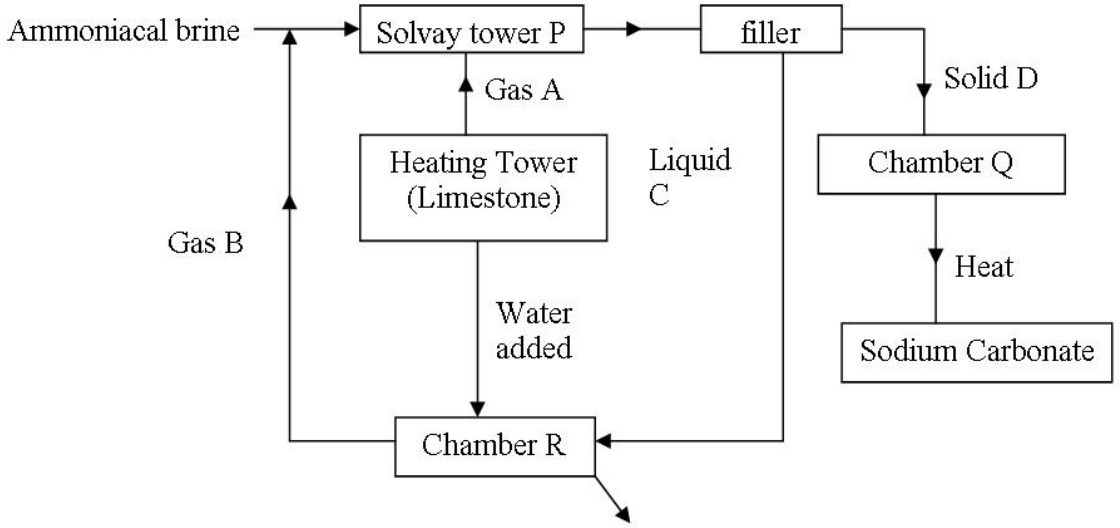
(vi) Write an equation to show the action of heat on the carbonates with element G (1mk)

……

……

(b) When 1.5litres of chlorine gas were completely reacted with element B 5.937g of the product were formed. Determine the relative atomic mass of element B. (Atomic mass of chlorine = 35.5 Molar gas volume = 24litres) (3mks)

2.The scheme below shows the manufacture of sodium carbonate by the Solvay process. Study it and use it to answer the questions that follow.




(a) Name (i) gases A and B (1mark)

(b) Name liquid C and Solid D (1mark)

(c) Write equations for the reactions taking place in tower P and chamber R (2marks)

(d) Name the product formed in chamber at chamber R and give one of its uses(2marks)

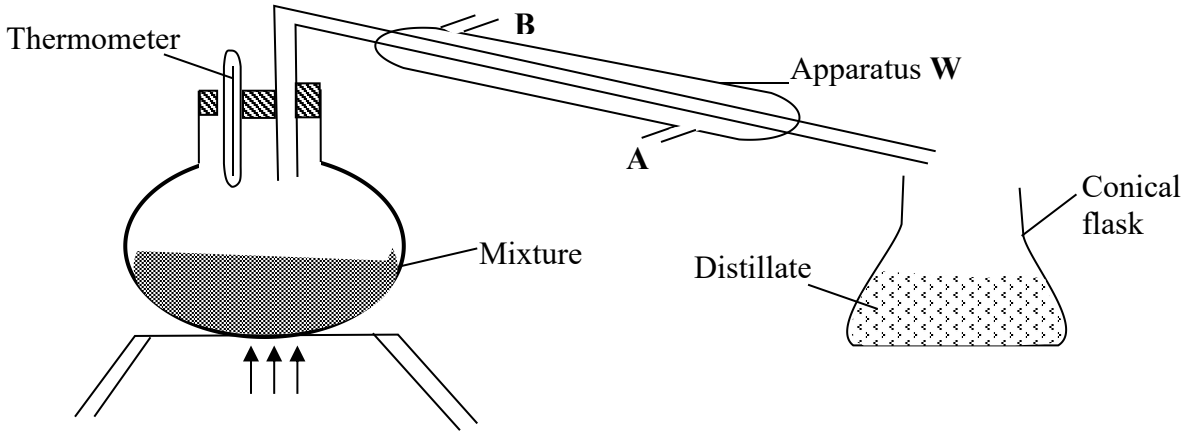
……

……

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

(c) State two uses of sodium carbonate (1mark)

3. A student left some crushed fruit mixture with water for some days. He found the mixture hadfermented. He concluded that the mixture was contaminated with water and ethanol with boiling point of 100$^{o}$C and 78$^{o}$C respectively. The set-up of apparatus below are used to separate the mixture.




(i) Name the piece of apparatus labelled **W** (1mk)

(ii) What is the purpose of the thermometer in the set-up? (1mk)

iii) At which end of the apparatus **W** should tap water be connected?(1mk)

(iv) Which liquid was collected as the first distillate? Explain (2mk)

(v) What is the name given to the above method of separating mixture?(1mk)

vi)State **two** applications of the above method of separating mixtures (1mk)

(vi) What properties of the mixture make it possible for the component to be separated by the above methods?(2mk)

4. I. In an experiment, a piece of magnesium ribbon was cleaned with steel wool. 2.4g of the clean magnesium ribbon was placed in a crucible and completely burnt in oxygen. After cooling the product weighed 4.0g

a) Explain why it is necessary to clean magnesium ribbon (1mks)

b) What observation was made in the crucible after burning magnesium ribbon?(1mk)

c) Why was there an increase in mass?(1mk)

d) Write an equation for the major chemical reaction which took place in the crucible(1mk)

e) The product in the crucible was shaken with water and filtered. State and explain the Observation which was made when red and blue litmus paper were dropped into the filtrate (3mks)

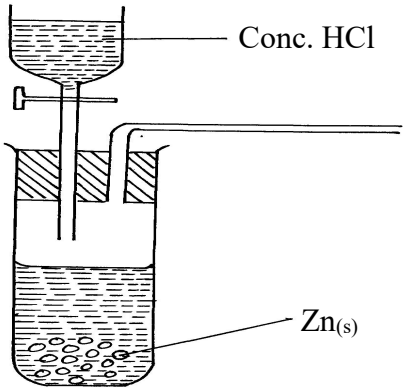
II.Below is a list of oxides.
MgO, $N_2O$, $K_2O$, CaO and $Al_2O_3$
Select:-

a) A neutral oxide. (1mk)

b) A highly water soluble basic oxide. (1mk)

c) An oxide which can react with both sodium hydroxide solution and dilute hydrochloric acid. (1mk)

5. a)The set-up below was used by a form three student to prepare a dry sample of gas **M**. Study it and use it to answer the questions that follow:-

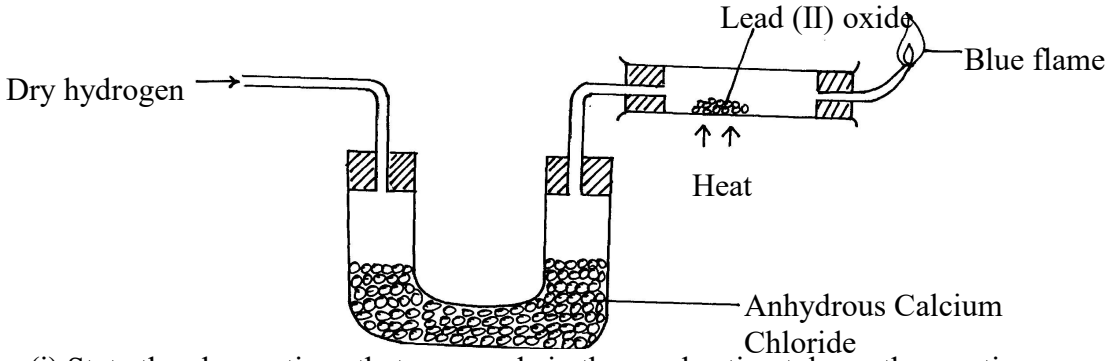



(i) Complete the diagram to show how a dry sample of gas **M** can be collected (3mks)

(ii) State the identity of gas **M** (1mk)

iii) state two industrial uses of gas M.(2mks)

b)What property of concentrated sulphuric acid is being employed in the above preparation? (1mk)The set-up below was used to investigate the properties of hydrogen




(i) State the observations that was made in the combustion tube as the reaction progressed to completion (2mks)

(ii) Write equations for the reactions ;

I) In the combustion tube (1mk)

II) At the jet of the delivery tube (1mk)

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

Naturally occurring boron exists as two isotopes, boron-10 B with a relative abundance of 20% and boron-11 B with a relative abundance of 80%.

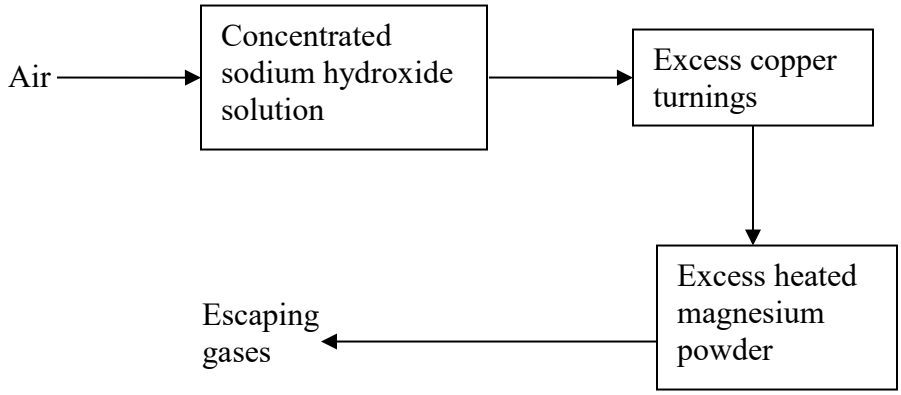
(a) How many electrons does each atom of boron contain? (1mk)

(b) How many neutrons does each atom of the most abundant isotope contain? (1mk)

(c) Calculate the relative atomic mass of boron. (2mks)

(d) Make a diagrammatic representation of an atom of the least abundant isotope of boron showing the distribution of electrons and composition of the nucleus. (2mks)

II.Air was passed through several reagents as shown below:



(a) Write an equation for the reaction which takes place in the chamber containing Magnesium powder (1mk)

(b) Name **one** gas which escapes from the chamber containing magnesium powder. Give a reason for your answer (1mk)

(c) State two industrial uses of hydrogen gas (1mk)

6.In the preparation of magnesium carbonate, magnesium was burnt in air and the product collected. Dilute sulphuric acid was then added and the mixture filtered and cooled. Sodium carbonate was added to the filtrate and the contents filtered. The residue was then washed and dried to give a white powder.

(a) Give the name of the product (1mk)

(b) Write the chemical equation for the formation of the product (1mk)

(c) (i) Name the filtrate collected after sodium carbonate was added.(1mk)

(ii) Write down the chemical formula of the white powder (1mk)

(d) Write a chemical equation for the reaction between product in **(a)** and the acid (1mk)

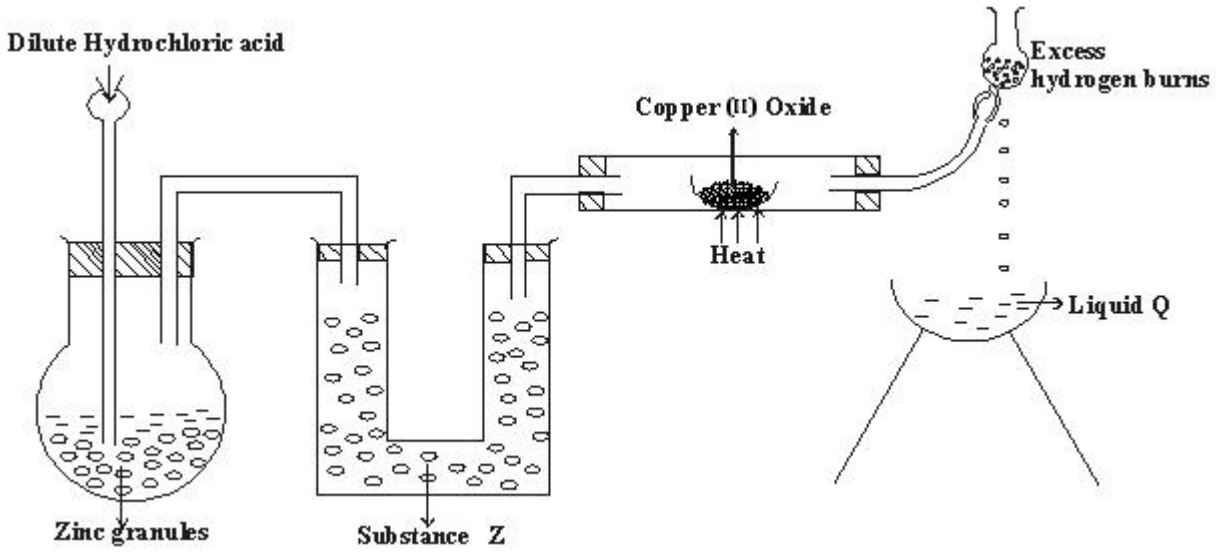
(e) Write an ionic equation to show the formation of the white powder(1mk).

(f) Write an equation to show what happens when the white powder is strongly heated. (1mk)

(g) Identify the ions present in the filtrate after addition of sodium carbonate. (1mk)

(h) What is the name given to the reaction that takes place when sodium carbonate was addedto the filtrate? (1mkss)

7.(a) In an experiment to investigate the properties of hydrogen, a student set up as follows.




(i) Name substances

(2 marks)

Z

.....

Q

……..

(ii) State two properties of hydrogen that were being investigated.

(2marks)

……

……

(iii) Give two precautions that should be taken towards the end of the experiment. (2marks)

……

……

……

(iv) State two reasons why it is not suitable to use dilute nitric (V) acid in the preparation of hydrogen with zinc. (2marks)

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

……

……

……..

b) Water molecule ($H_2O$) combines with $H^+$ to form hydroxonium ion. ($H_3O^+$) explain. (2marks)

……

……

c) Give TWO reason why hydrogen is used to fill meteorological balloons. (2mark)

……

……

# FORM 3 MID-TERM 2 SERIES 1 EXAMS

**NAME: ……** **ADM NO. ……**
**233/3** **DATE: ……**
**CHEMISTRY**
**PAPER 3 FORM 3**
**(PRACTICAL)**
**2 ¼ HRS**

.

# FORM THREE CHEMISTRY PAPER 3

**INSTRUCTIONS TO CANDIDATES**

a) Answer all the questions in the spaces provided in the question paper.
b) You are NOT allowed to start working with the apparatus for the first 15 minutes of the 2 ¼ 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.
c) All working must be clearly shown.

**FOR EXAMINER'S USE ONLY**

| QUESTION | MAXIMUM SCORE | CANDIDATE'S SCORE |
|---|---|---|
| 1 | 16 | |
| 2 | 14 | |
| 3 | 10 | |
| **TOTAL SCORE** | **40** | |

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

1. You are provided with:
   - 0.2 M Sodium Hydroxide solution
   - X M hydrochloric acid solution X
   - Y M $Na_2CO_3$ solution Y

You are required to standardize hydrochloric acid and hence determine the concentration of sodium carbonate.

**PROCEDURE I**

Using a pipette transfer 25$cm^3$ of 0.2M Sodium hydroxide into a conical flask. Add 2-3 drops of phenolphthalein indicator and then titrate with hydrochloric acid provided in a beaker from a burette. Shake the conical flask after each addition and note the volume required to neutralize the sodium hydroxide solution. Record your results in the table below.

(3 mks)

| Titre | I | II | III |
|---|---|---|---|
| Final burette reading ($cm^3$) | | | |
| Initial burette reading ($cm^3$) | | | |
| Volume of X used ($cm^3$) | | | |

a) What is the average volume of solution X used? (1 mk)

b) Calculate the number of moles of solution X required to completely neutralize 25$cm^3$ of sodium hydroxide solution. (2 mks)

c) What is the morality of the hydrochloric acid, solution X? (2 mks)

**PROCEDURE II**

Rinse the pipette thoroughly then pipette 25$cm^3$ of sodium carbonate into a conical flask. Add 2-3 drops of phenolphthalein indicator. Refill the burette with hydrochloric acid and use it to titrate the contents of the conical flask. Shake the flask after each addition of the acid and note the volume of the acid required to neutralize 25$cm^3$ of the sodium carbonate. Record your results in the table below.

(3 mks)

| Titre | I | II | III |
|---|---|---|---|
| Final burette reading ($cm^3$) | | | |
| Initial burette reading ($cm^3$) | | | |
| Volume of X used ($cm^3$) | | | |

d) What is the average volume of hydrochloric acid used in the second procedure? (1 mk)

e) Calculate the number of moles of sodium carbonate in 25cm$^3$ of solution. (2 mks)

f) Calculate the concentration of sodium carbonate in moles per litre. (2 mks)

2. You are provided with solid A. Carry out the tests below. Identify any gas or gases produced and record your observations and inferences.

a) Heat gently a spatula endful of solid A in a dry test tube. Test the gas with red and blue litmus paper.

| Observations | Inferences |
|---|---|
| (2 mk) | (2 mk) |

b) Place a spatula endful of solid A in a boiling tube. Add 10cm$^3$ of distilled water. Filter off the residue. Divide the filtrate into two portions. Retain the residue.

(i) To the first portion add 3 drops of ammonia solution and then excess.

| Observations | Inferences |
|---|---|
| (1 mk) | (1 mk) |

(ii) To the second portion add 3 drops of Lead (ii) nitrate solution.

| Observations | Inferences |
|---|---|
| (1 mk) | (1 mk) |

c) To the residue obtained in (b) above add 5cm$^3$ of dilute nitric acid. Divide the solution into two portions.

| Observations | Inferences |
|---|---|
| (1 mk) | (1 mk) |

(i) To the first portion add 3 drops of Ammonia solution and then excess.

| Observations | Inferences |
|---|---|
| (1 mk) | (1 mk) |

(ii) To the second portion add 3 drops of lead (ii) nitrate solution.

| Observations | Inferences |
|---|---|
| (1 mk) | (1 mk) |

3. You are provided with solid M. carry out the tests below and record your observations and inferences in the spaces provided.

a) i. Place a half spatula of solid M in a non-luminous flame of a Bunsen burner.

| Observations | Inferences |
|---|---|
| (1 mk) | (1 mk) |

(b) Place the remaining solid M in a boiling tube and add 8cm$^3$ of water. Divide the solution into 4 portions.

(i) Place the remaining solid **M** in a boiling tube and add 8cm$^3$ of water.

| Observations | Inferences |
|---|---|
| (1/2 mk) | (1/2 mk) |

ii. To the first portion, add 3 drops of acidified potassium manganate(vii)

| Observations | Inferences |
|---|---|
| (1 mk) | (1 mk) |

iii. To the second portion, add 3 drops of acidified potassium dichromate (vi) and warm.

| Observations | Inferences |
|---|---|
| (1 mk) | (1 mk) |

iv. To the third portion, add a little sodium hydrogen carbonate.

| Observations | Inferences |
|---|---|
| (1/2 mk) | (1/2 mk) |

v. To the fourth portion, add 3 drops of universal indicator and determine the PH of the solution.

| Observations | Inferences |
|---|---|
| (1 mk) | (1 mk) |

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

# FORM 3 MID-TERM 2 SERIES 1 EXAMS

NAME:……...……

SCHOOL:……..

A.D.M NO:…….. DATE:……

SIGNATURE:……

313/1

CRE

PAPER 1

Answer All Questions

1. (a) Outline ways in which Christians use the Bible to spread the good news(6mks)

(b) State **seven** problems which church leaders encounter in their work of evangelization (7mks)
c) Explain the reasons why the bible was translated from original languages to local languages (7mks)

2. (a) Outline the differences in the **two** accounts of creation in Genesis 1 and 2(7mks)
b) Outline the consequences of breaking taboo in the traditional concept in the African society. (7mks)
c) Describe **six** ways in which Christians continue with God's work of creation (6mks)

3.a) Explain ways in which King David promoted the worship of Yahweh in Israel(7mks)
b) Outline **seven** failures of King Saul as the first King of Israel(7mks)
c) Outline the duties of Samuel as a prophet of God (6mks)

4.(a) Give s**even** reasons why Elijah faced danger and hostility in Israel (7mks)l

(b) List **five** forms of corruption in Kenya today(5mks)

(c) Explain the relevance of Elijah's prophetic mission to Christians today(8mks)

5(a) Explain four importance of Kinship ties in the traditional African society.**(8 mks)**

(b) Identify seven changes that have taken place in the rite of initiation today. **(7 mks)**

(c) Give reasons why dowry is losing its meaning in the contempary Kenya. **(5 marks)**

6.a) Highlight the difference between the traditional and Old Testament prophets

b) Identify various ways through which the Old Testament Prophets communicated their messages to the people

c) What lessons can a Christian learn from the Old testament Prophets

.

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

# FORM 3 MID-TERM 2 SERIES 1 EXAMS

NAME:……...……

SCHOOL:……..

A.D.M NO:…….. DATE:……

SIGNATURE:……

313/2

PAPER 2

## TRIAL EXAM SERIES

FORM THREE

Answer All Questions

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

1a) Explain **six** expectations of the Jews concerning the messiah. (6marks)

b) Outline the similarities between the annunciation of the birth of John the Baptist and that of Jesus Christ. (8marks)

c) State **six** New Testament teachings about children. (6marks)

2.a) Describe the call of the first disciples according to (Luke 5:1-11). (8marks)

b) Explain the reasons why Jesus chose the 12 disciples. (7marks)

c) State **five** ways in which Christians demonstrate true discipleship. (5marks)

3. (a) Describe what happened to Jesus from the time of his arrest to his death on the cross Luke 22: 47- Luke 23:48 (8mks)

(b) Give **five** reasons why it was difficult for the disciples to believe that Jesus had resurrected (5mks)

(c) Outline the importance of resurrection of Jesus to Christians today (5mks)

4.a) Highlight the message of Peter on the day of Pentecost (Acts 2:14-40). (8mks)

(b) State **seven** teachings of Jesus on the role of the Holy Spirit. (7mks)

(c) State **five** problems of spreading the Gospel today. (5mks)

5.a) State **seven** fruits of the Holy Spirit according to Galatians 5:6-26 (7mks)

b) Explain **seven**ways in which the gifts of the Holy Spirit is misused in Christians churches today (7mks)

c) State any **six** characteristics of love according to **1st Corinthians 13(6mks)**

6.Identify five symbolic expressions used in teaching the unity of believers in the apostolic Church(5mks)

Identify factors which cause disunity among the Christians today.(8mks)

.Give **five** ways in which Christians show their trust in God.(7mks)

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

# FORM 3 MID-TERM 2 SERIES 1 EXAMS

**NAME:……** **DATE:……**

**SCHOOL:……..** **SIGN:…….**

**101/1**
**ENGLISH**
**(FUNCTIONAL SKILLS)**
**TIME: 2 HOURS**

**INSTRUCTIONS**

1. Write your name index number in the spaces provided.
2. Answer all questions in this paper
3. All answer must be written in the spaces provided in this question paper

**FOR EXAMINERS USE ONLY**

| QUESTION | MAXIMUM | SCORE |
|---|---|---|
| 1<br>2<br>3 | 20<br>10<br>30 | |
| Total Score | 60 | |



Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

1. You are a young investigative journalist; you've just visited a welfare organization that received funds from a donor. The organization however feels that the funds can't suffice their plans and therefore appeals for more funds from the donor. Write a report.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....



Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

**2. CLOZE TEST** (10mks)

***Fill in each blank space in the following passage with a suitable word.***

Can you _____1_____ a basic standard two test? You may be schooled but you are not_____2_____ this, a woman's baby is dying _____3_____! Picture this, a woman's baby is on the _____3_____ a disease and a nearby poster On the _____4_____ gives details on how to prevent or _____ 5_____ it, yet _____6_____ cannot interpret it despite having attended primary school. This is part of a dilemma that a group of education researchers are out to ____7_____: Weather Kenya's _____8_____can be read but cannot process information._____9_____Education researchers have designed a unique test _____10_____ at reviewing Kenyans? Ability to read and write completely, despite, going through a rigorous school system.

**3. ORAL SKILLS** (30mks)

***a) Read the oral narratives below and answer the questions that follow.***

Once upon a time, a woman who was pregnant and about to give birth went to the bush to collect firewood. On went to the bush to collect firewood. On reaching the bush, she suddenly gave birth to a baby boy who was so deformed and ugly that she decided to exchange it for another baby. A normal – looking one she found abandoned and crying in a nearby thicket. She didn't know that this baby was a spirit called Ekipie by the Turkana.

The woman returned home with the baby and since it was evening time, she had to milk the cows. So as usual, she took three gourds and filled them with milk from the numerous cows they owned. She put the milk containers in her hut where her eldest daughter was minding the new baby. Then she went out again to complete some of her other chores.

Later, when she returned to the hut where she had left the baby, she found to her dismay, that there was no milk at all. All the three guards were empty. Surprised, and shocked, she questioned her daughter about the milk and what had happened to it. The girl replied;

"The baby has drunk it all".

"I cant belief such a tale. It's ridiculous for you to say such a thing", She scolded her daughter.

"Don't tell lies. Admit you are just imagining things. Who drank the milk?"

The woman persistent in questioning her daughter in questioning her daughter who swore it was the baby.

Strange as it may sound to you, the same thing happened again the following day and a several consecutive days. The woman grew puzzled and confused. Her husband too began to complain about the non – availability of milk in the household. Now, the woman had no alternative but to tell him the truth.



Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

**Questions**

i) What would you do to prepare your audience to listen to the above story? (2mks)

.....

.....

.....

.....

ii) What two things would indicate to you that the audience is following the story? (2mks)

.....

.....

.....

.....

iii) What two oral devices would you use in narrating this story?

.....

.....

.....

.....

iv) How would you perform the reply of the girl" The baby has drunk it all"

.....

.....

.....

.....

b) Provide homophones for the following words.

i) Know.....

.....

.....

ii) Scene.....

.....

.....

.....

iii) Sight.....

.....

.....

Iv.

Blew.....

.....

..

.v.

Ewe.....

.....

c) Explain the difference in meaning between the following sentences.

(2mks)

i) The thief entered this house

.....

.....

ii) The thief entered this house

.....

.....

d) In the following paragraph, the writer has utilized one of the genres of oral literature to express his feeling about the subject. Answer the following question based on it.

The prince was their, idol
Through he was enjoying the peas.
He was bored and need parrying,
The regency took the queue
To enjoy from the generous air,
The kind sun of the kingdom.

(Karnabomain)

Replace the underlined words with those that have the same sounds to bring out the intended surface/ literal meaning. (3mks)

i).....

.....

ii).....

.....

iii).....

.....

iv).....

.....

v).....

.....

e) " Your Bob owes our bob. If your Bob doesn't give our Bob the bob owes our Bob, Our Bob will give your Bob a bob in the eye?

i) Identify the genre above (2mks)

.....

.....

.....

.....

ii) Give one characteristic feature of the genre above. (2mk)

.....

.....

.....

.....

f) Mrs. Jabali of Upendo High School asked her class to decide which of the set books in their syllabus they should perform for the rest of the school. Read the form Four champions discussion below and then answer the questions that follow.

Mrs Jabali: Rose, Would you lead the discussion?

Rose: Aha,Ok. The question is, What play should we pick for our class play? Does anyone have suggestions? Mercy?

Mercy: I suggest we do an Enemy of the people.

Sharon: How about shreds of Tenderness?

Rose: No, I dislike Shreds of Tenderness Passionately.

Kaunda: I love the River Between.

Mercy: No way! That would make a stupid play! let's do An Enemy of the people.

Rose: Sasha!

Sasha: I have never watched Shreds of Tenderness but .....

Joy: It is a super barb play.

Rose: Joy, Please let Shasa finish then it is your turn.

Joys: Sorry

Sasha: Anyway, I have never seen a play on An Enemy of the People but I have watched a movie and I loved it.

Rose: Lilian

Lilian: I just wanted to say that I like think Shreds of Tenderness is really good play.

Rose: Naom?

Naom: I saw the Movie An Enemy of the people too, and I really liked it. I loved the part where Catherine storms the.....

Rose: Excuse me, Naom, But we should talk about that after the discussion is over. Does anyone have any other suggestions? No? Ok.Mercy proposed An Enemy of the People, Sharon like Shreads of Tenderness and Kaunda wants the River Between. Has anybody seen or read all three? No? Ok. I suggest that we read them and then continue the discussion in a couple of days. Is that okay with everyone? Ok. The discussion is over.

i) In terms of effective communication identify five things some members of form four champions did wrong in the discussion. (5mks)

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

ii) Mention three aspects or etiquette displayed by some members during the discussion. (3mks)

.....

.....

.....

.....

.....

.....

.....

.....



Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

# FORM 3 MID-TERM 2 SERIES 1 EXAMS

Name: ……..…….……

Adm No: ……

Class……..... Learner's Signature: …… Date: ……..

**FORM 3**

**101/2**

**ENGLISH**

**PAPER 2**

**(Comprehension, Literary Appreciation and Grammar)**

**Time: 2 ½ Hours**

**Instructions to Learners:**

a. Write your name and index number in the spaces provided.
b. Sign and write the date of examination in the spaces provided.
c. Answer all questions in the question paper.
d. All the answers must be written in the spaces provided in the question paper.

**FOR EXAMINER'S USE ONLY**

| QUESTION | MAXIMUM SCORE | LEARNER'S SCORE |
|---|---|---|
| 1 | 20 | |
| 2 | 25 | |
| 3 | 20 | |
| 4 | 15 | |
| **TOTAL** | **80** | |



Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

## 1. COMPREHENSION (20 MARKS)

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

Some people seem to have all the luck. But is that right? Is there really something like luck that makes the difference between winners and losers? Yes there is. It is called hard work. Winners just work harder. They develop the attitudes on and habits that make the most of every opportunity. This is getting up earlier, so you have more hours in the day, playing to your strengths and focusing on what you do best. It is also managing your time and focusing on your priorities, **putting off pleasures**, to practice, study and prepare first so that when an opportunity arises, you are quick to get going.

Winners never stop learning. They are active, independent, competitive and willing to take risks. They pay attention to the little things and aim for perfection. They make commitments and keep them. Losers do exactly the opposite. Winners spot opportunities better than everyone else. They like meeting people and are good at keeping in touch. They expect to get on with everyone – and so they do. Because if you meet someone assuming they will like you, and treat them like they do, then they will! So you should smile a lot, make good eye contact, and be easy to get along with. The more people you talk to, the more opportunities will come your way. In fact, almost every good thing that will ever happen to you involves meeting someone or influencing them. Losers choose losers. Winners notice more things. So listen hard, stay relaxed and receptive, and watch everything that is going on around you, rather than only looking for what you want to see. Seek out new people to meet, places to go and things to do. You never know what new opportunity will present itself.

Listen to your intuition. That works because your subconscious is very good at picking up everything that is going on around us and comparing it with our past experience – the countless **tiny gestures** people make**,** for example. This leaves us with a "gut-feeling" as to whether we can trust them. Winners believe they control their future, and do not get distracted from their goals. Losers feel just the opposite. Winners do not quit. They focus on solutions. Losers focus on problems. Winners expect to be healthy and so they look after themselves well. Losers see little point in trying to lead healthy lives. Winners are tough. They always seem able to see the positive side of whatever has happened to them. They do not dwell on their troubles, but instead

take the constructive steps to prevent them in the future. They try different strategies when they fall. Losers do the same thing again and again, somehow expecting different results. So stop wishing for better luck. You should work, meet loads of people, and be alert to every opportunity, and then you will be one of the winners.

**QUESTIONS**

**a)** From paragraph one, what makes the difference between winners and losers? (2 Marks)

.....

.....

.....

.....

.....

**b)** How do winners make the best of every opportunity? (2 Marks)

.....

.....

.....

.....

**c)** In note form, state what it means to make most of every opportunity. (4 Marks)

.....

.....

.....

.....

.....

.....

.....

.....



Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

**d)** Which three things dominate winners' behavior? (3 Marks)

.....

.....

.....

.....

.....

.....

.....

**e)** Why do winners believe they control their future? (3 Marks)

.....

.....

.....

.....

.....

**f)** What is the attitude of the writer towards losers? (2 Marks)

.....

.....

.....

.....

.....

**g)** Rewrite the following sentences according to instruction given after each. (2 Marks)

i. Winners expect to be healthy and so they look after themselves well. (Rewrite using a participle).

.....

.....

.....



Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

ii. Listen to your intuition (Rewrite adding a question tag)

.....

.....

**h)** Give the meaning of the following phrases as used in the passage (2 Marks)

I. Putting off pleasure-.....

II. Tiny gestures-.....

## 2. Read the following extract from the play "The Samaritan" by John Lara and then answer the questions after. *(25 marks)*

**Nicole:** I have been reading the posts on The Samaritan and they are all about leaders, public officials and even private individuals. You have not been singled out in any way

**Mossi:**Far from the truth! Take the issue of development, for example. Everywhere in The Samaritan, I am being accused of inflating the cost of projects and presiding over shoddy Municipal works. Am I indeed responsible for that?

**Nicole:**Maybe it is because you are the overall leader. The buck with you, as they say.

**Mossi**:Oh, yes, it's easy to think so because I am the overall custodian of the public good in our Municipality. But take any project, such as the construction and maintenance of secondary roads in our town. Are any roads ever constructed? I will tell you what happens. Only a few kilometres of road are usually dug up and then levelled. Then the contractor pours old black oil and claims the road is tarmacked. Today, our secondary roads look like part of an abandoned battlefield where bombs were detonated. Even tractors can get stuck in those roads! Yet, the Council pays top dollar for these roads each year! Am I responsible?

**Nicole:**Tell me, Your Worship.

**Mossi:**(Standing up and pacing about the boardroom) It is my Deputy! That irredeemable gossip and broker! As you know, he doubles up as our Municipal Secretary for the Department of Physical infrastructure. He uses this position to ensure only his companies or those of his relatives win

tenders for road construction in our Municipality. The same happens with regard to tenders for the construction of bridges, pavements, drains and watercourses. Sadly, they don't de de any meaningful work! They simply **misappropriate** the funds!

**Nicole:**So what does that have to do with the people?

**Mossi:**Doesn't bother you that the people overwhelmingly voted for this kind of a person knowing very well he has never accomplished anything in his life other than swindle the people?

**Nicole:**Oh, did they know?

**Mossi:**Of course, they did! There is hardly any person he has not conned in this town! You always find him leaning on the street poles in cur town's backstreets, gazing vacantly into empty spaces like an evil spirit-waiting for fake title deeds to be printed. He prints ten title deeds for the same plot, and then sells the same plot to ten different people. Yet the people went ahead and voted for him! Why do the people glorify evil and mediocrity, and then turn and whine when it hurts them? And you know what?

## QUESTIONS

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

……

……..……

……

……

……

……

……

**(b)** Mayor Mossi claims that Hon. Ramdaye has conned almost everyone in their town. Mention one Council leader who has been conned and explain how. **(2mks)**

……

……..……

……

……..



Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

**(c)** Discuss **two themes** raised in the excerpt**.** **(4mks)**

……

……..……

……

……

……

……

**(d) Identify two** character traits of Hon. Ramdaye brought out in the excerpt. **(4 marks)**

……

……

……

……

……

**(e) What two** stylistic techniques the writer has employed in the excerpt? **(4mks)**

……

……..……

……

……

……

……

**(f) (i) They** simply misappropriate the funds! *(Rewrite in the passive)* **(1mk)**

……

……

**(ii)** Only a few kilometres of road are usually dug up and then levelled.*(Rewrite in the active voice)*

**(1mk)**

……

……

**(iii)** Maybe it is because you are the overall leader. *(Rewrite replacing "may be" with another word)* **(1mk)**

……

……

**(iv)** The buck stops with you, as they say. *(Rewrite adding a question tag)* **(1mk)**

……

……

**(v)** Everywhere in The Samaritan, I am being accused of inflating the cost of projects and presiding over shoddy Municipal works. (Rewrite replacing the underlined word with a phrasal verb) **(1mk)**

……

……

……

**(g) Explain** the meanings of the following words used in the excerpt. **(2 marks)**

- Misappropriate

……

……

- Inflating

### 3. POETRY (20 MARKS)

**Read the poem below and answer the questions that follow**

**THE BREWING NIGHT (By Yussuf Kassam)**

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 uniform 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'



Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

**QUESTIONS**

**a)** Explain what the poem is about. (3 Marks)

.....

.....

.....

.....

.....

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

.....

.....

**c)** What was a miss? I knew not. (Rewrite as one sentence beginning I did ...) (2 Marks)

.....

.....

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

.....

.....

.....

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

.....

.....

.....

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

.....

.....

.....

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

.....

.....

.....

.....

.....

.....

.....

**h)** Explain the meaning of the title. (2 Marks)

.....

.....

.....

**4. GRAMMAR (15 MARKS)**

**a) Rewrite the following sentences in the passive voice. (3 Marks)**

**i.** We ate lunch.

.....

**ii.** The prisoners are digging trenches.

.....

**iii.** Joha killed a snake.

.....



Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

**b) Rewrite the following sentences correcting the error in each. (2 Marks)**

**i.** Some people imagine their race is more superior than the African race.

……

……

**ii.** I have met the principal severally.

……

**c) Rewrite the following sentences indicating the words that should be in parentheses. (3 Marks)**

**i.** None of them I believe was telling the truth.

……

**ii.** Dogs I must confess I fear but cats treat with affection.

……

**iii.** This class and I speak from experience is the best I have ever taught.

……

**d) Fill in the blank spaces with phrasal verbs formed from the words in brackets. (3 Marks)**

**i.** I plan to..... (plough) all my profits into the business.

**ii.** It is unfair when business men .....(cash) on people's weaknesses.

**iii.** Many workers were..... (lay) when the business collapsed.

**e) Fill the blank spaces with phrasal verbs formed from the words in bracket. (4 Marks)**

**i.** He did not visit his sick mother even once. (Begin: Not .....)

……

……

**ii.** The TSC will not remit the unions' dues under any circumstances. (Begin: Under .....)

……

……..

**iii.** The two students were suspended but only because they were rude. (Begin: But .....)

……

…….

# FORM 3 MID-TERM 2 SERIES 1 EXAMS

Name: ……..

Adm No: …….....

Class: ……. Learner's Signature: …….…….
Date: …….……

**F0RM 3**

**101/3**

**ENGLISH**

**PAPER 3**

**(Creative Composition and Essays Based on Set Texts)**

**Time: 2 Hours 30 Minutes**

**Instructions to Learners:**

**a)** Answer **three** questions only. Questions one and two are **compulsory.**

b) In question three, **choose only one** of the optional texts you have prepared on.

c) Each of your essays should not exceed 450 words.

d) All answers must be written in the English language.

e) This paper consists of 2 printed pages. Candidates should check to ensure that all the pages indicated are printed.

**For Examiner's Use Only**

| QUESTION | MAXIMUM SCORE | LEARNER'S SCORE |
|---|---|---|
| 1 | 20 | |
| 2 | 20 | |
| 3 | 20 | |
| **TOTAL** | 60 | |



Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

**1) Imaginative Composition (Compulsory).** **(20 Marks)**

**EITHER**

**a)** Write a composition with the following words:
A lost wallet, money and a Good Samaritan.

**OR**

b) Write a story to illustrate the saying; once bitten twice shy.

**2) The Compulsory Text.** **(20 Marks)**

**Fathers of Nations by Paul B. Vitta.**

"Sometimes going through challenges does not necessarily mean that is the end of the road. Using Prof. Kimani in Paul Vitta's Fathers of Nation, justify this statement.

**3) The Optional Texts.** **(20 Marks)**

**Answer any <u>One</u> of the following Three questions.**

**a. The Short Story**

**A Silent Song and Other Short Stories by Godwin Siundu.**

Ninema has admirable characters that contribute to the success of her as a person and her business. Write an essay in support of this statement.

**b. Drama**

**Parliament of Owls by Adipo Sidang'**

Wrong doings are expensive especially for leaders. Write an essay in support of this assertion basing your illustrations on Adipo Sidang's play "Parliament of Owls."

**c. The Novel**

**Artist of the Floating World by Kazuo Ishiguro**

War has devastating effects on the people. Using Kazuo Ishiguro's novel, "An Artist of the Floating World," write an essay to justify this statement.



Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

# FORM 3 MID-TERM 2 SERIES 1 EXAMS

NAME:……...……

SCHOOL:……..

A.D.M NO:…….. DATE:……

SIGNATURE:……

312/1

GEOGRAPHY

PAPER 1

FORM THREE

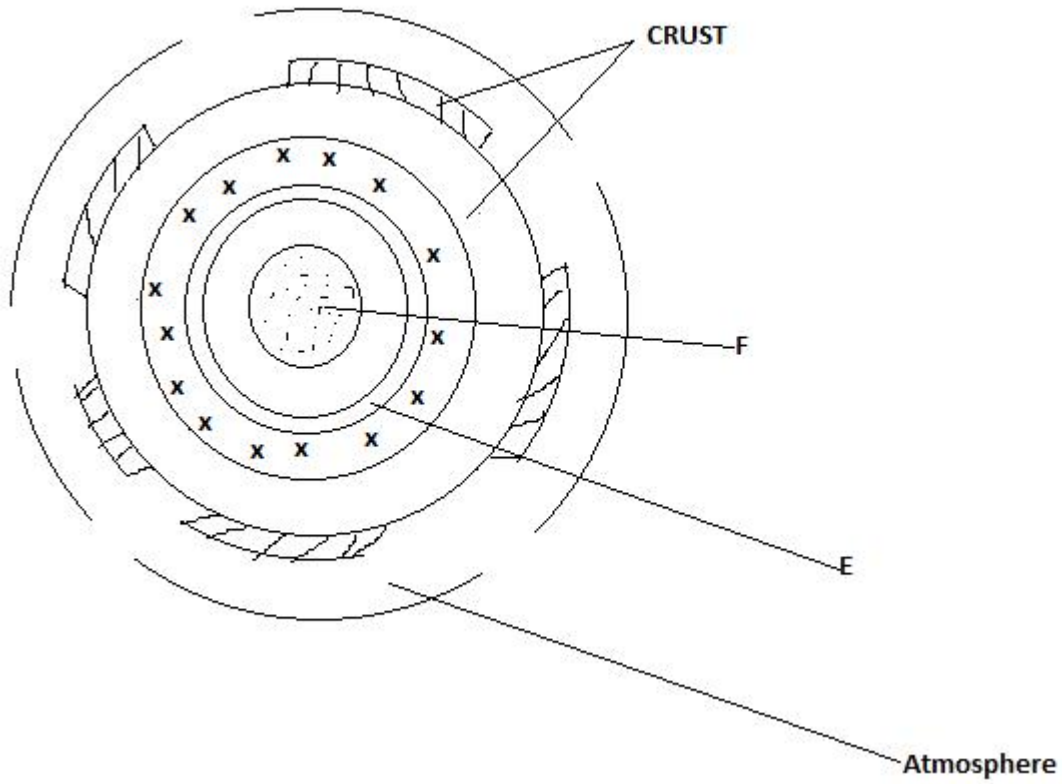
GEOGRAPHY P1

Answer All Questions



Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

1. The diagram below shows the structure of the earth. use it to answer (a)




(a) Name the parts marked E and F (2mks)

(b) State three characteristics of the atmosphere (3mks)

2 (a) Identify two forms of rock metamorphism (2mks)

(b) State the exclusive equivalent of the following intrusive igneous rocks

(i) Granite (1mk)

(ii) Diorite (1mk)

(iii) Gabbro (1mk)

3 (a) What is a seismic wave? (2mks)

(b) State three ways in which earth quakes affect human activities. (3mks)

4. (a) Differentiate between illuviation and salinization. (2mks)

(b) State three importance of water as a soil property. (3mks)

5 (a) Identify two types of deltas. (2mks)

(b) State three conditions ideal for the formation of a delta (3mks)

6. Study the data in the following table and answer questions (a) and (b). Kenyas leading imports by value (Ksh Million)

| Crop/year | Wheat | Maize | Rice | Coca |
|---|---|---|---|---|
| 2006 | 5400 | 4700 | 2000 | 700 |
| 2007 | 7200 | 3800 | 2600 | 420 |
| 2008 | 6400 | 1400 | 1900 | 580 |
| 2009 | 6800 | 4600 | 2400 | 800 |

(a) Calculate the percentage increase in expenditure on importation of wheat in the year 2006 and 2007 (2mks)

(b) (i) Draw a compound bar graph to represent the Kenya's leading import crops by value between 2006 and 2009 (8mks)

(ii) State two advantages of using compound bar graphs to represent data (2mks)

(c) State four reasons why Kenya imports maize, wheat and rice and she still produces them? (4mks)

c)(i) State physical conditions favouring wheat growing in Kenya (3mks)

(ii) Explain three reasons why Canada produces more wheat than Kenya
(

7 Differentiate between fissure and vent eruption (2mks)

(b) Describe how the following features are formed

(i) Batholiths (6mks)

(ii) Volcanic plug (5mks)

(c) Explain three negative effects of volcanicity on human activities (6mks)

(d) You are planning to carry out a field study on features formed by volcanicity on the landscape

(i) Formulate two null hypotheses for the study (2mks)

(ii) Name two drainage features you are likely to study (2mks)

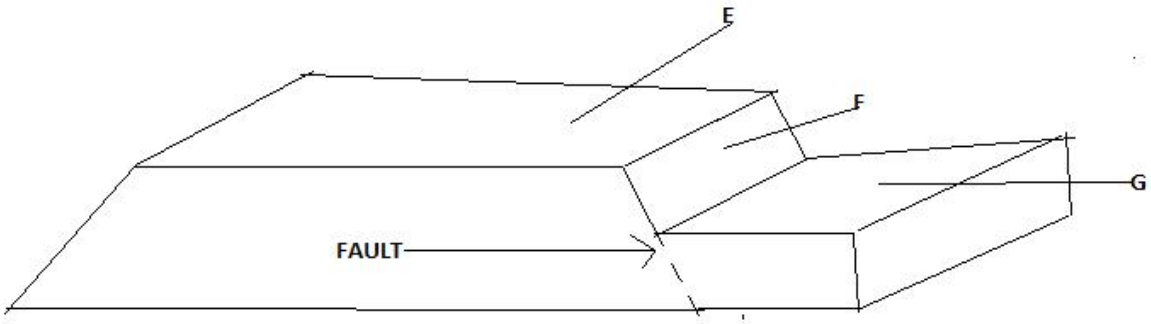


Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

(iii) State two methods you would use to record information during the study. (2mks)

8. (i) What is reverse fault? (2mks)

(ii) The diagram bellow represents an area affected by faulting Name the parts marked E,F and G (3mks)




b Describe the processes involved in the formation of the following features

(i) Fault steps (5mks)

(ii) Rift valley by anticlinal arching

c Explain four ways in which block mountains influence climate

9. Name two mountains in East Africa where congelifraction is common (2mks)

(b) Describe the following types of weathering

(i) Pressure release (5mks)

(ii) Hydration (4mks)

(iii) Oxidation (4mks)

(c) Explain three ways in which plants cause weatherings (6mks)

(d) What is an avalanche? (1mk)

(ii) State three effects of avalanche (3mks)

# FORM 3 MID-TERM 2 SERIES 1 EXAMS

NAME:……...……

SCHOOL:……..

A.D.M NO:…….. DATE:……

SIGNATURE:……

312/2

GEOGRAPHY

PAPER 2

Answer All Questions

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

1. Name three patterns of human settlements. (3mks)
2. i) List any two products from Jua kali industry in Kenya exported to other countries. (2mks)
   ii) Name two renewable sources of energy used in Kenyan industries. (2mks)
3. a) Name three surfaces that are reclaimed in Kenya. (3mks)
   b) Identify the method of reclamation used in each surface mentioned in 3(a) (3mks)
4. Explain how the following practices help in soil conservation
   i) Mulching (2mks)
   ii) Terracing (2mks)
5. a) Describe how deep-shaft mining takes place. (5mks)
   b) Name three products from an oil refinery other than petrol. (3mks)

SECTION B

Answer question 6 and any other two questions in this section.

6. The table below shows milk yield in kilograms per dialy cow in Denmark between 1990 and 1995.

| Year | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|
| Yields in kg | 5243 | 6693 | 7398 | 7610 | 7792 | 7946 |

(a) (i) Draw a divided circle of radius 3-5cm to represent the milk yield in Denmrk,

Show all your calculations (2mks)

(ii) State two advantages of using the divided circle to represent data (2mks)

(iii) Name two other methods, apart from the divided circle, that could be used to represent the above data. (2mks)

(b) (i) Explain three physical factors that have favoured farming in Denmark (6mks)

(ii) State three problems facing dairyFarmers in Kenya (3mks)

(c) Explain two reasons why beef farming is more developed in Argentina than in Kenya. (4mks)

7 (a) (i) State any two forms in which minerals occur (2mks)

(ii) Name any three places where limestone is mined in Kenya (3mks)

(b) Explain how the following factors influence the exploitation of a mineral

(i) Market (2mks)

(ii) The quality of ore (2mks)

(iii) Technology (2mks)

(c) (i) Name two provinces in south Africa where gold is mined (2mks)

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

(ii) Explain three problems facing gold mining in south Africa (6mks)

(d) Describe the processing of diamond in south Africa.

8 (a) (i) Apart from oil, name **two** sources of non-renewable energy. (2 mks)

(ii) List **three** advantages of solar energy. (3 mks)

(b) Explain **four** problems encountered in mineral exploitation in Kenya. (8 mks)

(c) Explain the effects of over-relience on oil as a source of energy. (8 mks)

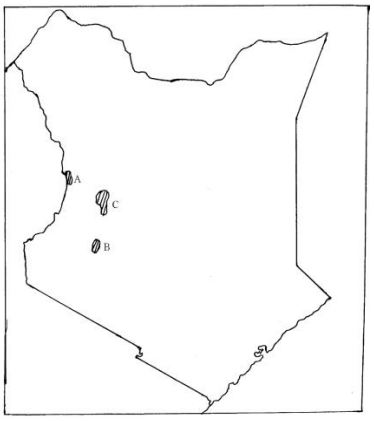
(d) State **four** methods the Government of Kenya uses to manage and conserve her energy resources. (4 mks)

9 a) i) define the term forestry. (1 mark)

ii) Give three differences between natural forest and planted forests.(3 marks)

b) Explain FOUR causes of forest depletion in Kenya today. (8 marks)

c) i) From the map below, give the names of the forests marked A, B ad C




ii)State FOUR measures that are being undertaken by the Kenya Government to conserve forests.

(4 marks)

d)Explain THREE factors favouring the exploitation of softwoods inCanada(6mks)

**End**

# FORM 3 MID-TERM 2 SERIES 1 EXAMS

NAME:……...……

SCHOOL:……..

A.D.M NO:…….. DATE:……

SIGNATURE:……

311/1

HISTORY AND GOVERNMENT

PAPER 1

FORM THREE

## INSTRUCTIONS TO CANDIDATES

1. *This paper consists of THREE sections: A, B & C.*
2. *Answer ALL the Questions in Section A, THREE Questions from Section B & TWO Questions from Section C.*
3. *Answer ALL the Questions in the Answer BOOKLETS provided*

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

**SECTION A (25MKS)**

*Answer all questions in this section.*

1. Identify two archeological evidences that show Kenya was inhabited by Stone Age people 2 million years ago. (2mks)

2. State two practices that the Agikuyu borrowed from the Gumbo during the pre-colonial period. (2mks)

3. Give two reasons why Africans moved to urban centres in Kenya during the colonial period. (2mks)

4. Name two exports to East Africa from China during the Indian Ocean trade. (2mks)

5. State two duties of the governor in the colonial Kenya. (2mks)

6. Name the Amani coalition's presidential candidate and his running mate in the just concluded general elections. (2mks)

7. Name the chief executive officer of the Independent Electoral and Boundaries commission. (1mk)

8. Name the longest serving Kenyan vice-president since independence. (1mk)

9. State two significance of the initiation ceremonies among the Mijikenda during the pre-colonial period. (2mks)

10. Name two functions of the Wanga king during the pre-colonial period. (2mks)

11. Name two archeological sites in Kenya. (2mks)

12. How many counties are there in Kenya under the new constitution? (1mk)

13. Name the immediate former government spokesperson. (1mk)

14. Name the levels of government in Kenya. (2mks)

15. Identify two Portuguese officials involved in the Portuguese conquest of the East coast. (2mks)

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

SECTION B (45MKS)

*Answer any THREE questions.*

16. (a) What were the factors that led to the development of urban centres in the colonial Kenya. (5mks)

(b)Explain the positive effects of **urbanization** during the period of colonial rule in Kenya. (10mks)

17. (a) What are the causes of food shortage in Kenya. (3mks)

(b)Explain the measures that the Kenyan government has taken to solve food shortages. (12mks)

18. (a) Identify the groups of the Ameru during the pre-colonial period. (5mks)

(b)Explain the functions of the NjuriNcheke among the Ameru. (10mks)

19. (a) What were the grievances presented by the coast African Association to the colonial government? (3mks)

(b)Explain problems faced by early political organizations in Kenya. (12mks)

**SECTION C (30MKS)**

*Answer any TWO questions.*

20.(a) What are the limitations to freedom of movement in Kenya? (3mks)

(b)Discuss the social duties of a Kenyan citizen. (12mks)

21. (a) Give hierarchy of courts in the current court system in Kenya. (5mks)

(b)Discuss the challenges faced by the Kenyan judiciary. (10mks)

22. (a) State the economic issues that cause conflict. (5mks)

(b)Describe the various methods of conflict resolution. (10mks)

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

# FORM 3 MID-TERM 2 SERIES 1 EXAMS

**Name: ……. Adm. No ……. Class……**

HISTORY AND GOVERNMENT PAPER 2
Time 2 ½ Hours
.
311/2

•

.

**Instructions**

**The paper contains three sections A, B and C**

**Answer All questions in section A, Three questions in section B and TWO questions in section C in the answer sheets provided.**

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

**SECTION A: ANSWER ALL QUESTIONS IN THIS SECTION (25 MARKS)**

1. State two advantages of land enclosure system in Britain (2mks)
2. State two industries that were established by the early man (2mks)
3. Give one result of the invention of the wheel in Mesopotamia (1mk)
4. Name the first people to use iron in the world (1mk)
5. Identify two terms of the Berlin conference of (1885). (2mks)
6. Name any two countries that were colonized by Portugal in Africa (2mks)
7. State two roles of the tuaregs in the trans-saharan trade (2mks)
8. State the contribution of Alexander Graham Bell in communication (1mk)
9. Name the two territories acquired by Germany from France during the France – Prussian war of 1870 – 1871. (2mks)
10. State two functions of the Buganda tradition at parliament (2mks)
11. Mention two functions of the Emirs in Northern Nigeria during the colonial period (2mks)
12. Give two reasons functions of London as an early urban centre in Europe (2mks)
13. Identify two uses of Broze in Egypt (2mks)
14. Identify the MAIN factor that led to the use of the ancient town of Meroe (1mk)
15. Name one country that was not colonized by Europeans in Africa (1mk)

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

**SECTION B (45 MARKS)**

**Answer any 3 questions from this section**

16. (a) State 5 uses of tools made by man in the middle stone age period (5mks)
    (b) Describe the way of life of the early man in the New stone age period (10mks)

17. (a) State five ways through which slaves were obtained during the Trans-Atlantic slave trade.

    (b) Explain five factors that led to the decline of the Trans-Atlantic trade (10mks)

18. (a) State five causes of the maji maji rebellion (5mks)

    (b) Explain 5 results of Lewanika's collaboration with the British

19. (a) Name three early written forms of communication (3mks)

    (b) Explain six ways in which the modern society has benefited from the development in telecommunication (12mks)

**SECTION C (30 MARKS)**

**Answer any 2 questions from this section**

20.(a) State Three symbols of royal authority in Buganda Kingdom (3mks)

    (b) Describe the political organization of the Buganda kingdom (12mks)

21. (a) State five characteristics of a good constitution (5mks)

    (b) Explain 5 advantages of a written constitution. (10mks)

22. (a) State Three reasons why the British applied the policy of indirect rule in their colonies (3mks)

    (b) Explain six results of African collaboration to European Invasion (12mks)

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

# FORM 3 MID-TERM 2 SERIES 1 EXAMS

**JINA…… …….**

**TAREHE……..**

**SAHIHI YAKO…….**

**SHULE…….…….**

**102/1**

**KISWAHILI**

**KARATASI YA 1 (INSHA)**

**MUDA: SAA 1 ¾**

**KIDATO CHA TATU**

**MAAGIZO**

1. Andika Insha m**bili**
2. Swali la **kwanza** ni la **lazima**
3. Chagua insha nyingine kutoka hizo tatu zilizobaki
4. Kila insha isipungue maneno **400**
5. Kila insha ina alama **20**

*Watahiniwa wanastahili kuona kuwa maswali yote yako na hakuna yaliyoachwa.*

*Jibu maswali mawili, swali la kwanza ni la lazima.*

1. Halmashauri ya utunzi wa mitihani nchini imewatahadharisha watahiniwa dhidi ya udanganyifu katika mitihani ya kitaifa. Andika tahadhari hiyo na hatua zitakazochukuliwa dhidi ya watakaozikiuka.

2. Katiba mpya imewapa vijana uhuru wa kujitegemea na kujiendeleza kimaisha. Thibitisha

3. Pilipili usiyoila yakuashiani?

4. Andika hadithi itakayomalizikia kwa:

……kisa hiki kilinifundisha kwamba kuzaliwa masikini si hoja.



Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

# FORM 3 MID-TERM 2 SERIES 1 EXAMS

**JINA**……..

**SHULE**.....

**TAREHE**……..……

**SAHIHI**……

102/2

KISWAHILI

KARATASI YA 2 MUHULA WA KWANZA

UFAHAMU, UFUPISHO, MATUMIZI YA LUGHA NA ISIMU JAMII

MUDA: SAA 2 ½

FORM THREE

**MAAGIZO KWA MTAHINIWA**

- Jibu maswali yote.
- Majibu yote yaandikwe katika nafasi zilizoachwa katika kijitabu hiki cha maswali.
- Tumia hati safi.

***KWA MATUMIZI YA MTAHINI PEKEE***

| **Swali** | **Jumla** | **Tuzo** |
|---|---|---|
| 1 | 15 | |
| 2 | 15 | |
| 3 | 40 | |
| 4 | 10 | |
| **JUMLA** | 80 | |



Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

**1. UFAHAMU (Alama 15)**

***Soma makala yafuatayo kasha ujibu maswali***

Huku ulimwengu unapoingia katika teknologia ya tarakilishi na sera ya utandaridhi, ukweli wa mambo ni kuwa akina mama wamezinduka. Suala la usawa wa kijinsia limeanza kushamiri kote duniani na ole wake mwanamume yeyote ambaye hajawa tayari kutembea na majira. Lakini hebu tuchunguze jambo hili kwa makini zaidi.

Usawa wa jinsia ni nini? Usawa wa kijinsia ni usawa wa binadamu wote; wawe wake au waume. Usawa huu unapaswa kudhihirika katika kugawa nafasi za kazi, utoaji wa elimu, nafasi za uongozi na nyanja nyinginezo zozote za maisha.

Ubaguzi wa aina yoyote ile hasa dhidi ya mwanamke ni jambo linalokabiliwa na vita vikali sana ulimwenguni kote.

Dahari na dahari, hasa katika jamii za kiafrika, kumekuwa na imani isiyotingisika kuwa mwanamke ni kiumbe duni akilinganishwa na mwanaume. Kwa hivyo mwanamke amekuwa akifanyiwa kila aina ya dhuluma ikiwepo kupigwa, kutukanwa, kudharauliwa, kunyimwa haki zake, kunyimwa heshima na mambo kama hayo. Lakini je, ni kweli kuwa mwanamke ni kiumbe duni asiyefaa kutendewa haki?

Tukichunguza jamii kwa makini tunaweza kuona mara moja kuwa hivyo ni imani potofu isiyo na mashiko yoyote. Ukiimulika familia yoyote ile iliyopiga hatua kimaendeleo, uwezekano mkubwa ni kuwa mume na mke wa familia inayohusika wana ushirikiano mkubwa. Mume anamthamini mke wake na hadiriki kufanya maamuzi muhimu yanayoweza kuathiri maendeleo ya familia bila kumhusisha mke. Mume kama huyo huketi na mkewe, wakishauriana na kufikia uamuzi bora.

Tukitoka katika muktadha wa kifamilia na kumulika ulimwengu wa kazi iwe ni katika afisi za kiserikali au kwenye makampuni binafsi, ukweli ni kwamba kiongozi yeyote yule aliyefaulu katika usimamizi wake mara nyingi huwa na mke nyumbani ambaye wanashauriana kila uchao kuhusu kazi anayofanya hata kama mke hafanyi kazi mahali pale. Hisia na mawaidha anayotoa mke kwa mume wake ni tunu na huenda asiyapate kwingineko kokote hata katika vitabu vya kupigiwa mifano. Hii ni mojawapo ya sababu ambayo huwafanya viongozi wa nchi mbalimbali kupenda sana kuwatambulisha wake na familia zao waziwazi kwa vile wanajua kuwa jamii inathamini sana msingi wa jamii.

Kiongozi ambaye hana mke au familia au yule ambaye mke wake hatambuliki, hutiwa mashaka na jamii hata kama ni kiongozi aliye na azma ya kushikilia kazi ngumu ya kuongoza umma.

Tukirudi nyuma kidogo na kupiga darubini mataifa ya mbali, tunaweza kuwaona wanawake mashuhuri walio uongozini ambao hadi waleo unapigiwa mfano. Wanawake mashuhuri waliotoa uongozini ambao hadi waleo unapigiwa mfano. Wanawake hao walisimamia mojawapo ya mataifa yenye uwezo na ushawishi mkubwa zaidi duniani. Ingawa wengi wao sasa wameng'atuka, uongozi wao bado unakumbukwa hata baada ya miaka mingi ya wao kuamua kupumzika, Mifano ni kama: Bi Margaret Thatcher aliyekuwa waziri mkuu wa Uingereza, Bi Bandranaike wa Sri Lanka, Golda Meir wa Israel na wengine wengi katika mataifa kama Indonesia, Ufilipino, Bangladesh, Pakistani na kwingineko.

Katika kufikia tamati, tunapozungumza kuhusu jinsia, hatuna budi kugusia kitafsili masuala nyeti. Kwanza, imani ya kushikilia kikiki tamaduni zisizofaa, ni jambo linalofaa kuchunguzwa kw makini. Kwa mfano, kuna badhi ya jamii ambazo humlazimu mke kurithiwa baada ya kifo cha mumewe. Vile vile baadhi ya jamii za kiafrika zinashikilia kuwa mwanamke hana haki ya kurithi. Kutokana na imani hii, wanawake wengi huishi maisha ya taabu baada ya kutengana na waume zao kwa vile hawana haki ya kurithi chochote kutoka kwa wazazi wao hata kama wazazi hao wana mali nyingi kupindikukia. Mali ya wazazi ni haki ya watoto wa kiume wala si watoto wa kike! Hili ni jambo la kusikitisha mno.

Isitoshe, wanawake hukumbwa na kizingiti kingine wanapojaribu kumiliki mali ya waume zao baada ya waume hao kukata kamba. Sababu ni kuwa, baada ya hao wenda zao kuwekwa kaburini, vita vya umiliki wa mali huanza mara moja na mwishowe yule mke maskini hujikuta hana hata mahali pa kulala sembuse mali waliyochuma na mali yake yote kunyakuliwa na aila ya mumewe . Jambo hili linaonyesha namna tulivyoachwa nyuma na uhalisia wa mambo. Ni lazima jamii izinduke na itoke kwenye kiza hiki chenye maki nzito.



Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

**MASWALI**

(a) Ina maana gani kusema kuwa wanaume hawana budi "kutembea na majira?"
(alama2)

.....

.....

(b) Kabla ya uzinduzi huu kuhusu usawa wa kijinsia, wanawake wamekuwa wakitendewa dhuluma za kila aina. Taja tatu. (alama 3)

.....

.....

.....

.....

(c) Je, ni kwa nini viongozi wengi hupenda kujitambulisha na familia zao? (alama 2)

.....

.....

(d) Je, unaamini kuwa hisia na mawaidha anayotoa mke kwa mume wake ni tunu na huenda yasipatikane kwingineko? Fafanua (alama 2)

.....

.....

(e) Je licha ya kunyimwa haki yake ya kujiamulia, ni matatizo yapi mengine yanayoweza kumukumba mke anayelazimishwa kurithiwa? (alama 3)

.....

.....

.....

(f) Eleza maana ya maneno yafuatayo jinsi yalivyotumiwa katika muktadha. (alama 3)

Kushamiri.....

.....

Hulka.....

.....

Azma.....

.....

**MUKHTASARI (Alama 15)**

***Soma taarifa ifuatayo kasha ujibu maswali yatakayofuata.***

Binadamu hupenda kujivika vilemba vingi mno.Tunapenda kuheshimiwa na kutukuzwa na kila mtu. Tunapenda kuombwa ushauri na wote ambao wanahitaji ushauri! Tunapenda kutambuliwa popote tuendapo.

Watu wengi hukataa kufanya jambo la halali kwa kuhofia kuitwa wajinga. Mfano mzuri ni pale ambapo mtu amekosea kidogo katika kutenda jambo; utaona kuwa mtu huyo anaona ugumu wa kuomba radhi au samahani ati kwa sababu ataonekana mjinga.

Je, ni mara ngapi mkurugenzi ameita mkutano na katika barua yake akatisha kuwaadhibu watakaochelewa na mwishowe ni yeye mwenyewe anayechelewa? Tena huwa haombi msamaha. Ataulaumu usingizi uliomchukua, au gari lililomleta.

Aghalabu tunapowakuza watoto wetu, tunawafunza maadili mema. Tunawahimiza wale wadogo kwamba ni vizuri kuomba radhi kwa wakubwa wako unapowakosea. Lakini kumbuka kwamba kukosea ni kwa binadamu wote. Mtu anaweza kukukosea kwa makusudi au kwa bahati mbaya. Kwa hivyo tunapaswa kufahamu kwamba, tunapofanya makosa ni lazima tuombe msamaha, iwe ni kwa wakubwa au kwa wadogo, ili kuondoa kero.

Waja wengi huogopa kusimama mbele za watu na kuwasilisha au kutenda jambo fulani. Kisa na maana, mtu hataki kutenda jambo fulani halafu akosee. Hajiamini na anaogopa kuwa huenda watu wakaona kasoro yake. Lakini kumbuka, kukosa njia ndiko kuijua.

Huenda ikawa watu wanajadili maswala ibuka kama vile ufisadi, kuavya mimba, matumizi ya dawa za kulevya, ukimwi, uzuiaji wa kizazi na kadhalika... labda huyaungi mkono maoni ya watu wengine kwa sababu ya imani na maadili yako. Hata hivyo, hutaki kusimama ukatoa msimamo wako mbele za watu ingawa dhamiri yako imekwazika. Baadaye utasikika ukiwalaumu watu wengine ilhali ulikataa kusimama na kutetea msimamo wako.

Wengi wetu hujichukua kuwa watu muhimu sana. Wanaona kuwa sherehe au mkutano wowote hauwezi kufaulu ikiwa wao hawako. Wanapokuwa kwenye hiyo mikutano wao hutaka watambuliwe. Hupenda majina yao yatajwe. Haya huwaridhisha , lakini swali ni je, kuwepo kwao ni muhimu kiasi hicho? Kumbuka kwamba mkutano ungeendelea vizuri



Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

bila kuwepo kwao. Kwa hivyo, tusiwe watu wa kutaka kutambuliwa kila tunapoenda mahali. Pia, tusilalamike ikiwa hatukuhusishwa katika jambo fulani.

Unaposhuhudia jambo fulani, kama wizi au ajali, usiwe na woga wa kutoa usaidizi kwa kutoa ushuhuda. Wengine hata huogopa kutoa usaidizi huo, hata kwa manusura wa ajali za barabarani, eti kwa sababu wanahofia kuitwa mahakamani kutoa ushuhuda. Kuna shida gani kuenda kusema yale uliyoyashuhudia bila kuongeza au kutoa chochote?

**MASWALI**

a) Bila kupoteza maana, fupisha aya ya kwanza hadi ya nne.(maneno 60) (alama 7)

***Nakala chafu:***

……

……

……

……

……

……

……

……

***Nakala safi:***

……

……

……

……

……

……

……

……

……

……

b) Fupisha aya nne za mwisho. (maneno 50) (alama 8)

***Nakala chafu.***

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

Nakala Safi.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....



Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

**MATUMIZI YA LUGHA (Alama 40)**

a. Taja tofauti iliyopo kati ya sauti /f/ na /v/ (alama 1)

……

……

b. Andika sentensi ifuatayo ukitumia kinyume cha neno lililoandikwa kwa herufi ya mlazo: (alama 1)

Binadamu hawezi *kumuumba* mwenzake.

……

……

c. Andika sentensi ifuatayo upya ukizingatia kisawe cha neno lililopigwa mstari: (alama 1)

Mtoto mwenye <u>hamaki</u> hawezi kuelewa maagizo.

……

……

d. Andika kwa usemi halisi: (alama 3)

Yule mshukiwa aliyekamatwa na polisi alisema kuwa papo hapo ndipo alipoficha ule mkufu.

……

……

……

e. Tunga sentensi inayoshirikisha nomino uliyopewa pamoja na vipashio vifuatavyo vya sarufi: kivumishi kisisitizi, kitenzi kishirikishi, kitenzi, na kielezi cha wakati.(alama2)

Pinde……

……

f. Sahihisha sentensi zifuatazo :

(i)Ndegwa alipeana kalamu yake kwa mwanafunzi. (alama 1)

……

……

(ii)Siku hizi mahitaji imezidi na pesa haitoshi. (alama 1)

……

……

g. Tunga sentensi mbili kubainisha maana mbili tofauti za neno: **rudi.** (alama 2)

(i) ……

……

…

(ii) ……

……

…

h. Akifisha: (alama 2)

Mtume asimame nusura aingie kwenye shimo la taka

……

i. Unda nomino kutokana na kivumishi:**refu** (alama 1)

……

……

j. Onyesha chagizo katika sentensi ifuatayo: (alama 1)

Watu wanne walipeperushwa juu kwa juu na upepo mkali.

……

……

k. Tunga sentensi ukitumia**: isije ikawa** (alama 2)

……

……

……



Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

l. Andika upya sentensi ifuatayo ukitumia virejeshi vya tamati: (alama 2)

Mwanafunzi anayefanikiwa maishani ni yule anayesoma kwa bidii na pia anayewatii wazazi wake.

……

……

……

……

m. Ainisha viambishi awali na tamati katika sentensi: **Anikumbukaye** (alama 2)

……

……

n. Kanusha kwa udogo: Mwizi aliiba kikapu na ng'ombe. (alama 2)

……

……

o. Andika umoja wa sentensi: (alama 1)

Kwato za wanyama hutufaidi.

……

……_

p. Andika kwa wingi : (alama 4)

Wimbi hilo la maji lilimhofisha mvuvi akashindwa kutupa wavu wake majini.

……

……

……

……

q. Andika katika hali ya kutendewa: (alama 2)

Kuku hawa wamemsumbua Sabina kwa muda mrefu.

……

……

……

r. Tumia sentensi moja moja kubainisha tofauti kati ya sentensi **sahili** na sentensi **ambatano** (alama 2)

……

……

……

s. Changanua sentensi ifuatayo kwa njia ya mistari au mishale:
Mwanasiasa aliyewapuuza wanaeneo bunge lake amekomelewa. (alama 4)

……

……

……

……

t. Andika katika usemi wa taarifa. (Alama 2)
"Karibu Bakari, tafadhali kaa", Maimuna alisema. "Asante, je, habari za nyumbani?" Bakari aliuliza.

……

……

……

……

u. Taja aina ya yambwa iliyopigiwa mstari katika sentensi uliyopewa: (alama 1)
Mpishi amempikia <u>mgeni</u> wali vizuri.

……

……

……

**ISIMUJAMII (Alama 10)**

(a) Taja nadharia zozote mbili zinazohusiana na chimbuko la lugha ya Kiswahili. (alama 2)

.....

.....

.....

.....

.....

.....

.....

(b) Kwa kutolea mifano, eleza sifa zozote nne za kimsingi za sajili inayoweza kutumika darasani. (alama 8)

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....



Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

# FORM 3 MID-TERM 2 SERIES 1 EXAMS

**JINA: ……..... NAMBARI YA USAJILI ……**

**DARASA: …….. TAREHE:.....**

**102/3**
**KISWAHILI**
**KARATASI YA 3**
**FASIHI.**
**MUDA: Saa 2 ½**

**KIDATO CHA TATU.**

**MASAA: 2 ½ .**

**Maagizo**

a. *Andika **jina lako** na **nambari** yako ya mtihani katika nafasi ulizoachiwa hapo juu.*
b. *Tia **sahihi** yako kisha uandike **tarehe ya mtihani** katika nafasi ulizoachiwa hapo juu.*
c. *Jibu maswali yote **manne.***
d. *Majibu yote lazima yaandikwe kwa **lugha ya Kiswahili**.*
e. *Watahiniwa ni lazima wahakikishe **kwamba kurasa zote** zakaratasi hii zimepigwa **chapa** sawasawa na kuwa maswali yote yamo.*

**Kwamatumiziyamtahinipekee**

| **SWALI** | **1** | **2** | **3** | **4** | **JUMLA** |
|---|---|---|---|---|---|
| **ALAMA** | | | | | |
| **UPEO** | **20** | **20** | **20** | **20** | **80** |



Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

## 1. USHAIRI:

**Soma shairi hili kisha ujibu maswali yanayofuata.**

1. Tunda la elimu zote, wanasema wanazuoni
   Ni kwamba mtu apate, kumtambua manani
   Ndipo hadhi apate, akumbukwe duniani.

2. Elimu bilazote, haizidiasilani
   Giza na nurunuhali, kituhavitangamani
   Uwongoufekweli, ituenurumoyoni.

3. Elimu ni kama mali, haichoshi kutamani
   Ni bora yashinda mali, taji la wanazuoni
   Elimu njoma miali, langazayo gizani.

4. Mtu hachomwi na mwiba, na viatu miguuni
   Ulimwenguni una miiba, tele majiani
   Elimu ukiishiba, u salama duniani.

5. Wafuniwasiosoma, watazikwaardhini
   Hai ndio maulana, wapaaomaangani
   Elimu jambo adhima, asonayomaskini.

6. Toa wakfuujana, elimuukutamani
   Na uwe mzee sana, kujuausijihini
   Elimunijamboadhima, asonayomaskini.

7. Elimuinamalipo, utayalipwamwishoni
   Pale uitafutapo, utayalipwamwoshini
   Mwanachuoniafapo, mbinguhuwanahuzuni.

8. Haki yakuheshimiwa, niyaowanachuoni
   Wao wameongolewa, nanitaaduniani
   Kweli wanapoijua, watoebilakuhuni.

9. Elimubilaamali, mtiusiomajani
   Haumtiikivuli, aukaliayechini
   Inakuwa mashkeli, wa kughuri insani.

**Maswali**

a) Toa kichwa mwafaka kwa shairi hili. (al 2)
b) Taja na ueleze aina na bahari za shairi hili. (al 3)
c) Eleza umbo/ muundowashairi. (al 4)
d) Fafanua maudhui katika ubeti wa tatu na wa saba. (al 6)
e) Andika ubeti wa mwisho kwa lugha ya nathari. (ala 4)
f) Tambua mbinu yoyote ya lugha inayojitokeza katika shairi hili. (ala 1)

## SWALI LA PILI
## FASIHI SIMULIZI

a) Fafanua aina zifuatazo za nyimbo. (ala 6)
   i) Nyiso
   ii) Nyimbo za siasa
   iii) Bembelezi

b) Fafanua umuhimu wa nyimbo. (alama 10)

c) Fafanua umuhimu wa nyimbo katika utambaji wa hadidhi. alama 4)

## SWALI LA TATU
## TAMTHILIA YA BEMBEA YA MAISHA

"Eti alama! My foot! Eti ameshika nafasi darasani lakini akapandisha alama……."

a) i) Nani alisema maneno haya? (alama 1)
   ii) Nani alikuwa akiambiwa maneno haya? (alama 1)
   iii)Walikuwa wapi? (alama 1)
   iv) Kwa nini maneno haya yakasemwa? (alama 1)

b) Jadili sifa za mnenaji. (alama 10)

c) Ni nini umuhimu wa anayeambiwa maneno haya? (alama 6)

## SWALI LA NNE
## TAMTHILIA YA BEMBEA YA MAISHA

Bembea ya Maisha ni tamthilia inayohimiza mshikamano wa kijamii. Toa hoja zinazounga mkono kauli hii.

(alama 20)

**UKURASA WA MWISHO**



Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

# FORM 3 MID-TERM 2 SERIES 1 EXAMS

NAME:……...……

SCHOOL:……..

A.D.M NO:…….. DATE:……

SIGNATURE:……

121/1

MATHEMATICS

PAPER 1

## TRIAL EXAM SERIES

FORM THREE

**INSTRUCTIONS TO CANDIDATES:**

- *Write **your name** and **admission number** in the spaces provided above*
- *This paper contains **two sections;** Section **I** and section **II.***
- *Answer **all** the questions in section **I** and only **five** questions from section **II.***
- *All workings and answers **must** be written on the question paper in the spaces provided below each question.*
- *Marks may be given for correct working even if the answer is wrong.*
- *Calculators and KNEC mathematical tables may be used EXCEPT where stated otherwise*
- *Show all the steps in your calculations, giving your answers at each stage in the spaces below each question*

**For Examiner's Use Only;**

**Section I**

| Questions | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | **TOTAL** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Marks | | | | | | | | | | | | | | | | | |

**Section II**

| **Questions** | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | **TOTAL** |
|---|---|---|---|---|---|---|---|---|---|
| **Marks** | | | | | | | | | |

**GRAND TOTAL**

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

1. Without using mathematical tables or calculators, evaluate the following leaving your answer as a fraction in its simplest form. (3mks)

$$\sqrt[3]{\frac{0.119 \times 0.256}{0.068 \times 7}}$$

2. Two boys and a girl shared some money .The elder boy got $\frac{4}{9}$ of it, the younger boy got $\frac{2}{5}$ of the reminder and the girl got the rest. Find the percentage share of the younger boy to the girl's share. (4mks)

3. From a point A, the angle of elevation of top of a watch tower is $20^0$.From another point which is 25m from the base of the tower, the angle of elevation of the top of the tower is $26^0$.Giving your answer to three decimal places, determine the height of the tower and hence calculate the distance between the points A and B if they are both on the same side of the tower and lie on a straight line with the base of the tower. (3mks)

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

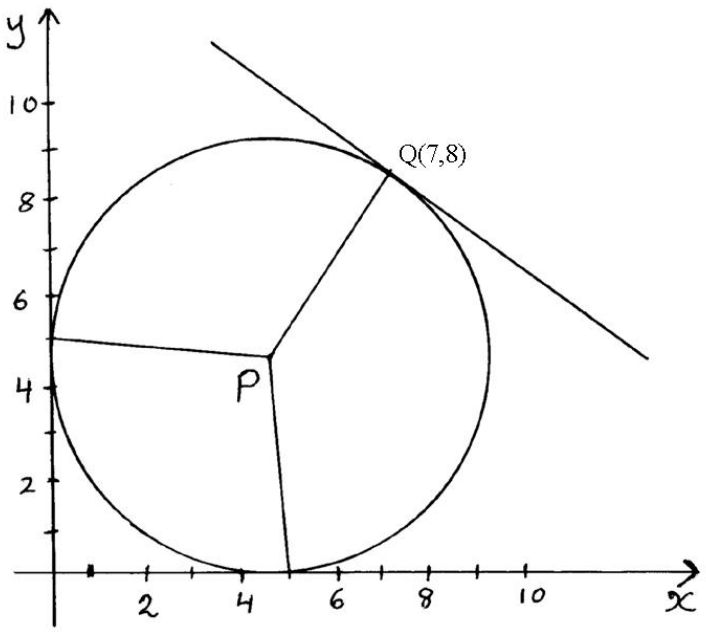
4. If X is a positive integer, find all possible values of x given that $1<\frac{2}{5}x^2<7$. (3mks)

5. A train whose length is 60 metres is travelling at 40km/h in the same direction as a bus whose length is 20m.If the speed of bus is 80km/h and moving parallel to the train, calculate the time it takes the truck to overtake the train completely in seconds. (3mks)

6. A positive two digit number is such that the product of the digits is 20.When the digits are reversed , the number so formed is greater than the original number by 9.Find the number.

7. The diagram below shows a circle with centre P(5,5) and radius 5 units

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes



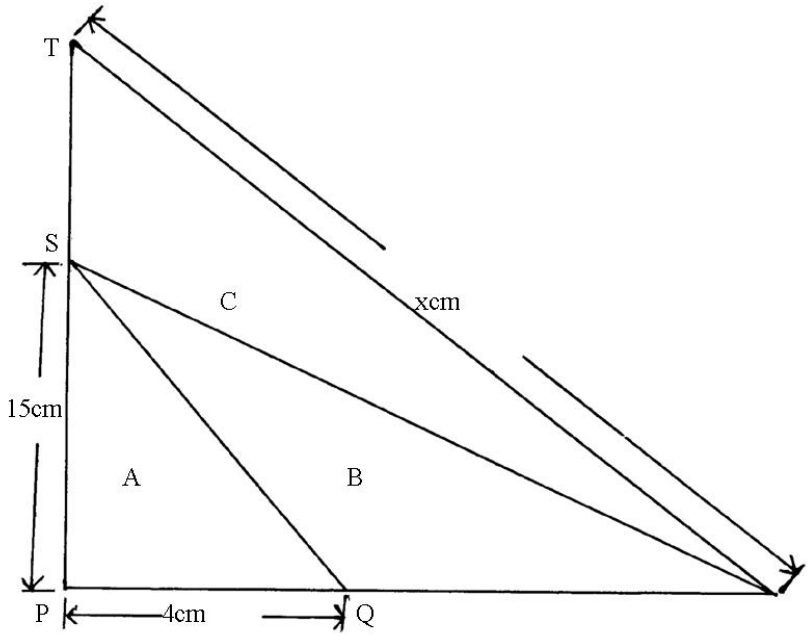

(a) Write down in terms of x and y the equation of the circle in the form $ax^2+by^2+cx+dy+e=0$ where a,b,c,d and e are constants. (1mk)

(b) Determine the gradient of PQ (1mk)

(c) Find the equation of the tangent at Q in the form ax+by=c. (2mks)

8. Find the value of x in the following figure given that area A =Area B=Area C(Give your answer

to 2 decimal places) (4mks)




9.Odhis car Hire company hires out as follows; sh. 2500 per day and sh. 270 per kilometer covered. They offer a discount of 30km free each day of hire.Makori hires a car for 5 days and drives for 480km.Calculate the total cost. (2mks)

10.Omwando borrows sh. 90,000 for 5 years at 6 ½ % simple interest p.a.What amount does he have to pay at the end of that time? (3mks)

11.Solve for t in the equation

$9^{t+1}+3^{2t}=30$. (3mks)

12.Given the curve $y= x^2-2x+6$, find the coordinates of the point on the curve at which the gradient is 4. (2mks)

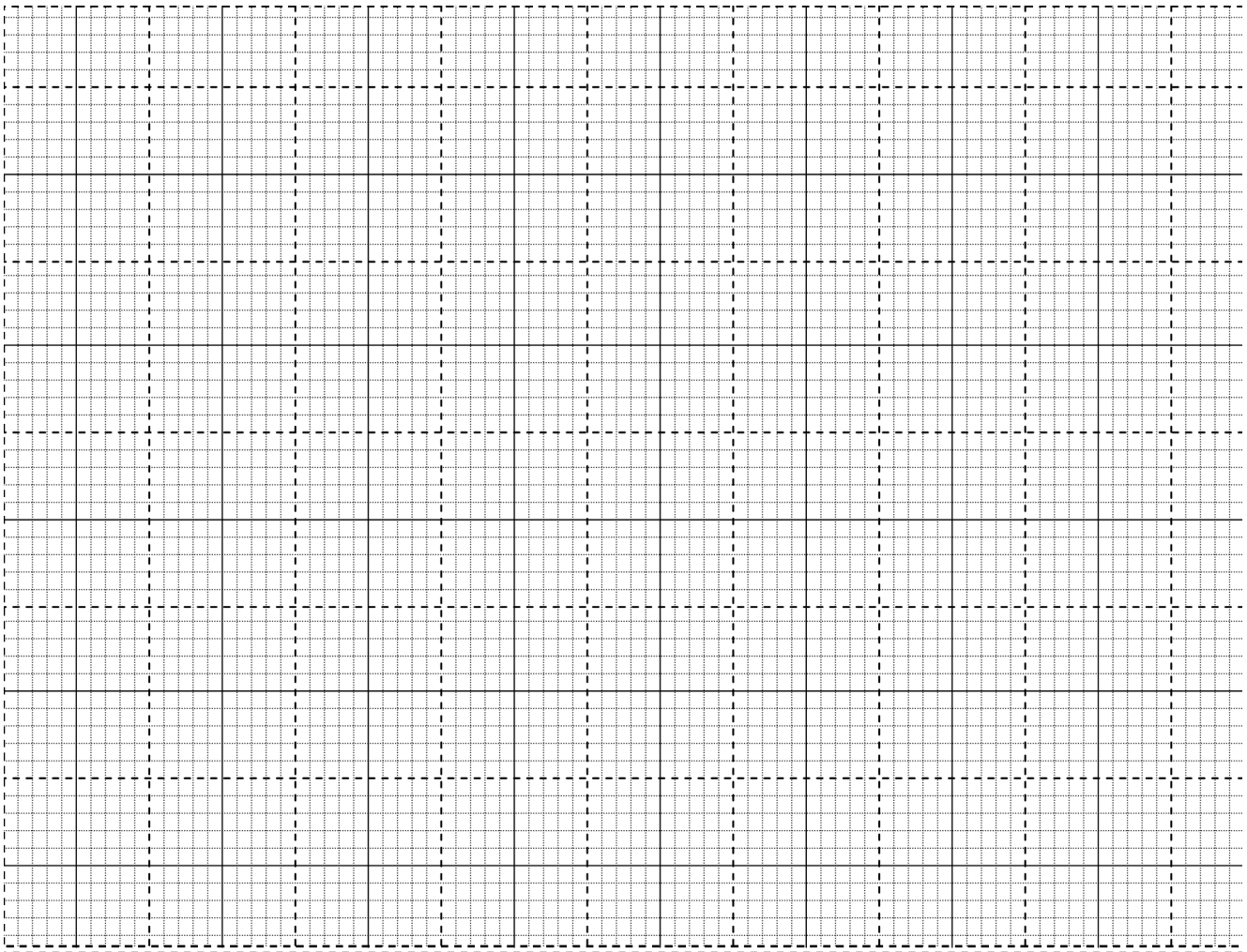
13.Mary has some money in two denominations only. Fifty shilling notes and twenty shilling coins. She has three times as many fifty shilling notes as twenty shilling coins. If altogether she has sh. 3400, find the number of fifty shilling notes and 20 shilling coins.

14.In Ngamongo village, a piece of work can be completed by 45 workers in 10 days .They worked for 4 days after which 15 workers were laid off. How many days would it take the remaining workers to complete the work? (3mks)

15. The table below shows marks obtained by a form three class in a certain school.

| Marks (x) | $8 \le X < 9$ | $9 \le X < 11$ | $11 \le X < 13$ | $13 \le X < 16$ | $16 \le X < 20$ | $20 \le X < 21$ |
|---|---|---|---|---|---|---|
| No. of students (y) | 2 | 6 | 8 | 3 | 2 | 1 |

Use the table to represent the information on a histogram. (3mks)



Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

16. Find the inverse of the matrix $\begin{pmatrix} 2 & 1 \\ 3 & 2 \end{pmatrix}$ and hence solve the simultaneous equations below. (4mks)

2x+y=21

3x+2y=34

**SECTION II (50 MARKS)**

**ANSWER ANY FIVE QUESTIONS.**

17. A bag contains 5 red , 4 white and 3 blue beads. Two beads are selected at random.

(a) Draw a tree diagram and list the probability space. (3mks)

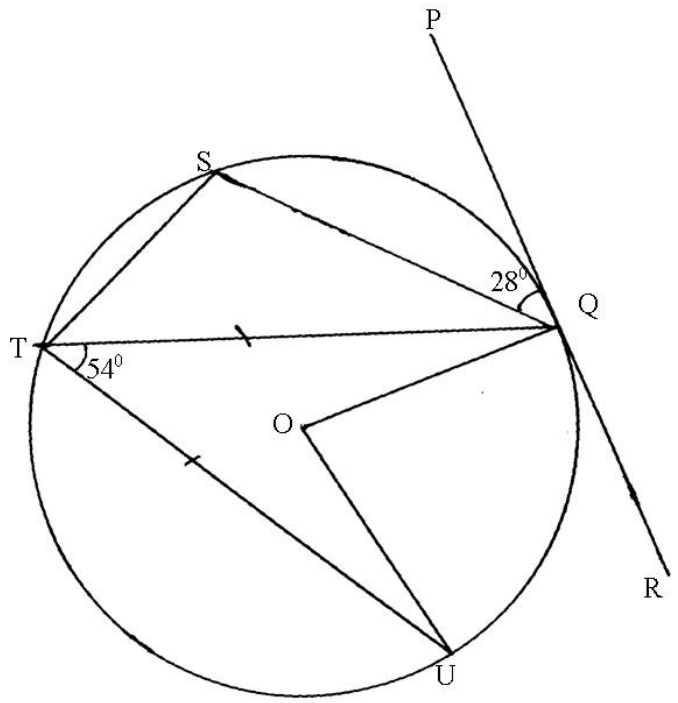
(b) Find the probability that

(i) The last bead selected is red. (2mks)

(ii) The beads selected were of the same colour (2mks)

(iii) At least one of the selected beads is blue. (3mks)

18. In the figure below,O is the centre of the circle.PQR is a tangent to the circle at Q. Angle PQS=$28^0$,angle UTQ=$54^0$ and UT =TQ.



Giving reasons , determine the size of

(a) Angle STQ. (2mks)

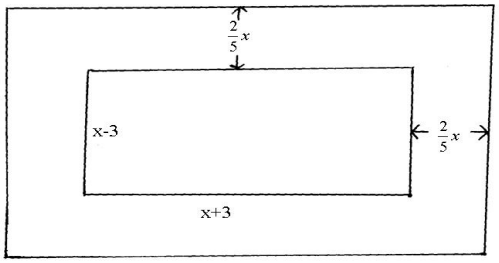
(b) Angle TQU. (2mks)

(c) Angle TQS (2mks)

(d) Reflex angle UOQ . (2mks)

(e) Angle TQR. (2mks)

19.The following figure represent a dancing floor with a carpeted margin all around of $\frac{2}{5}x$ wide leaving a dancing space of (x-3)m by (x+3)m




If the total area of the entire room is $315m^2$

(a) Calculate the value of x. (5mks)

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

(b) Calculate the area of the carpeted margin. (3mks)

(c) If the carpet cost sh. 750 per $m^2$,calculate the total cost of the sealed margin. (2mks)

20. John bought 3 brands of tea, A B and C. The cost price of the three brands were sh 25, sh 30, sh 45 per kg respectively. He mixed the three brands in the ratio 5:2:1 respectively: After selling the mixture he made a profit of 20%.

(a) How much profit did he make per kilogram of the mixture? (4 mks)

(b) After one year the cost price of each brand was increased by 10%

(i) For how much did he sell one kilogram of the mixture to make a profit of 15%? (Give your answer to the nearest 5 cents) (3 mks)

(ii) What would have been his percentage profit if he sold one kilogram of the mixture at sh. 45.
(3 mks)

21. A car accelerates from rest for 10 seconds until it reaches a velocity of 12 metres per second.It then continues at this velocity for the next 40 seconds after which it brakes and comes to rest until a constant retardation of 1.5 meres per second

(a) Determine

(i) The acceleration over the first 10 seconds (2mks)

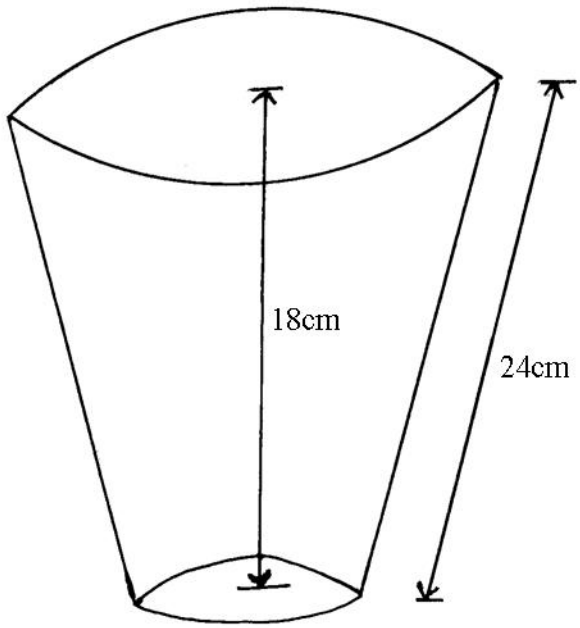
(ii) The time taken during the retardation (2mks)

(b) Draw the velocity time graph for the journey and use it to determine.

(i) The total distance covered by the car (4mks)

(ii) The percentage of the total distance which was covered during the first 15 seconds.
(2mks)

22. The diagram below shows a flower vase of depth 18cm.The ratio of the top and bottom diameters is 5:2 (Take $\prod$ =3.142)




Calculate

(a) The volume of the flower vase (7mks)

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

(b) The curved surface area of the flower vase (3mks)

23. Given that x-y=3 and 3x+y=17, find without solving for X and Y the value of

(a) $2xy-x^2-y^2$ (2mks)

(b) $6xy+y^2+9x^2$ (2mks)

(c) $3x^2-2xy+y^2$ (3mks)

(d) $\frac{3x^2-4xy+y^2}{9x^2-y^2}$ (3mks)

24. Three Kenyan warships A,B and C are at sea such that ship B is 450km on a bearing of $030^0$ from ship A. ship C is 700km from ship B on a bearing of $120^0$.An enemy ship D is sighted 1000km due south of ship B.

(a) Taking a scale of 1cm to represent 100km locate the position of the ships A,B,C and D (4mks)

(b) Find the compass bearing of :

(i) Ship A from ship D (1mk)

(ii) Ship D from ship C (1mk)

(c) Use the scale drawing to determine

(i) The distance of D from A (1mk)

(ii) The distance of C from D (1mk)

(d) Find the bearing of :

(i) B from C (1mk)

(ii) A from C (1mk)

END

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

# FORM 3 MID-TERM 2 SERIES 1 EXAMS

NAME:……...……

SCHOOL:……..

A.D.M NO:…….. DATE:……

SIGNATURE:……

121/2

MATHEMATICS

PAPER 2

**INSTRUCTIONS TO CANDIDATES:**

- *Write **your name** and **admission number** in the spaces provided above*
- *This paper contains **two sections;** Section **I** and section **II.***
- *Answer **all** the questions in section **I** and only **five** questions from section **II.***
- *All workings and answers **must** be written on the question paper in the spaces provided below each question.*
- *Marks may be given for correct working even if the answer is wrong.*
- *Calculators and KNEC mathematical tables may be used EXCEPT where stated otherwise*
- *Show all the steps in your calculations, giving your answers at each stage in the spaces below each question*

**For Examiner's Use Only;**

**Section I**

| Questions | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | **TOTAL** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Marks | | | | | | | | | | | | | | | | | |

**Section II**

| **Questions** | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | **TOTAL** |
|---|---|---|---|---|---|---|---|---|---|
| **Marks** | | | | | | | | | |

**GRAND**

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

1. Evaluate without using tables or calculators. (3mks)

$$\sqrt{\frac{0.8064 \times 6.048}{1.008 \times 0.1344}}$$

2. Evaluate $\frac{-4 \text{ of } [(-4 + -5 \div 15) + -3 - 4 \div 6)]}{84 \div -7 + 3 - - 5}$ (2mks)

3. Solve for $\theta$ without using table given that $0 \leq \theta \leq 90^{o}$ and that $\sin ( 2\theta - 30^{o}) - \cos 4\theta = 0$ (3mks)

4. Solve for x given that $5^{2x+2} - 20 \times 5^{2x} = 625$ (3mks)

5. The angle of a quadrilateral ABCD in order are 2 (x -10), 4 (x + 5), 5(x+4) and (x-20) in degrees. Find the exterior angles of the quadrilateral. (4mks)

6. A radio costing kshs. 1240 is marked to sell at a price calculated to give a profit of 40 %. What will be its selling price in sale when 25% is taken off the marked price? (3mks)

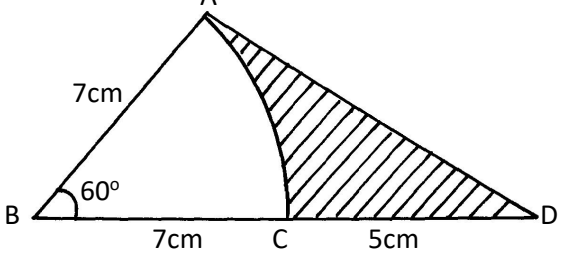
7. Show that if OA = - i+ 7j, OB = 3i – 5j and OC = 4j, then points AB and C are collinear. (4mks)

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

8. Four men can dig 2 acres of land in 3 days working 4 hour a day. How many men are required to dig 5 acres of land in 4 days working 3 hours a day at the same rate.
(3mks)

9. The surface area of two similar bottles are 12 $cm^2$ and 108$cm^2$ respectively. If the larger one has a volume of 810 cm3. Find the volume of the smaller one.
(3mks)

10. In the figure given below, AC is an arc of a circle centre B∠ ABD = 60º, AB = BC = 7cm and CD= 5 cm.




**Calculate**

a) The area of triangle ADB (2mks)

b) The area of the shaded region. (2mks

11. Solve the inequalitites and represent the information on the number line. (3mks)
$-3+2x<3x+2<4(x-5)$

12. Make x the subject of the formula in $3s=2p\sqrt{\frac{x}{3x-5}}$ (3mks)

13. Given x = 13.4cm and y = 4.3 cm. calculate the percentage error in $\frac{x}{y}$ correct to 4 d.p( 3mks)

14. A straight line through the point A (2, 1) and B (4,m) is perpendicular to the line whose equation is 3y = 5 – 2x, Determine the value of m. (3mks)

15. Okoth deposited some money at 10% compound interest compounded annually. How long will it take to double the amount to the nearest year? (3mks)

16. Chebet has 5 brown chicken and 3 black ones. She picks two of them for slaughter at random, one after the other. What is the probability that the two are of different colours. (3mks)

**SECTION II**

***Answer only five questions.***

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

17. A bus left Nairobi at 8.00am and traveled towards BUsia at an average speed of 80km/hr. At 8.30 am a car left Busia for Nairobi at an average speed of 120km/hr. Given that the distance between Nairobi and Busia is 400km.

**Calculate:**

a) The time the car arrived in Nairobi. (2mks)

b) The time the two vehicles met. (4mks)

c) The distance from Nairobi to the meeting point. (2mks)

d) The distance of the bus from Busia when the car arrived in Nairobi. (2mks)

18. A triangle whose vertices are A (1,4) B ( 2,1) and C (5,2) is given the following transformation:

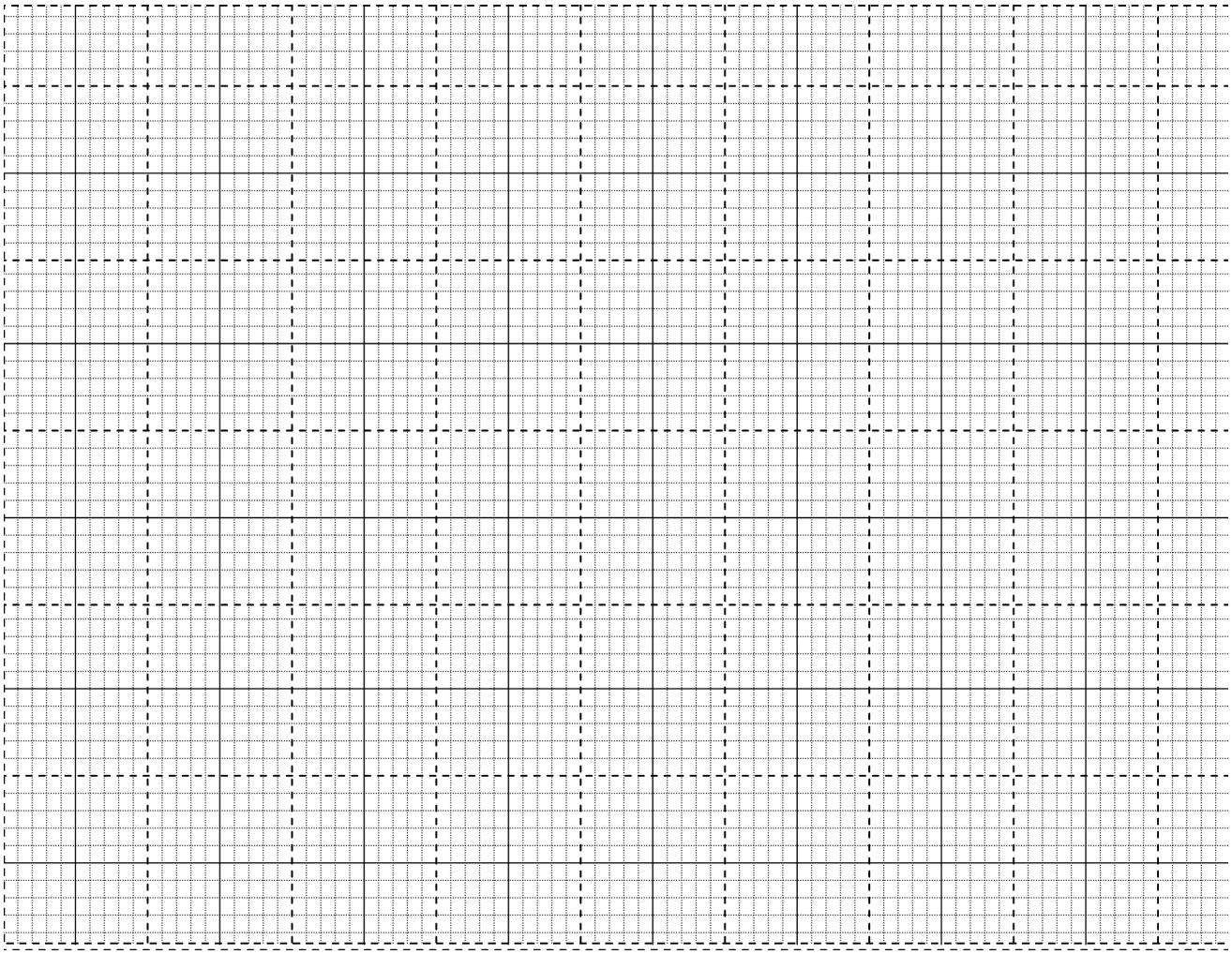
i) Reflection in the line y = -x to $A^1B^1C^1$

ii) $A^1B^1C^1$ is then given rotation of + 90° about the origin to $A^{11}B^{11}C^{11}$

iii) $A^{11}B^{11}C^{11}$ is then given a translation vector $\begin{pmatrix} -2 \\ \end{pmatrix}$ to $A^{11}B^{11}C^{11}$

iv) $A^{11}B^{11}C^{11}$ is then given an enlargement scale factor – 2 centre (0, 0) to $A^{IV}\,B^{IV}\,C^{IV}$.

On the given grid plot a triangle ABC and it's images $A^1B^1C^1$, $A^{11}B^{11}C^{11}$, $A^{111}B^{111}\,C^{111}$ and $A^{IV}\,B^{IV}\,C^{IV}$. And give coordinates of $A^{IV}\,B^{IV}\,C^{IV}$. (10mks)



19. A Post OT stand vertically on level ground John moves from O, the foot of the flag post to point R, on the level ground. The points T, O and R from a right angled isosceles triangle whose perimeter is 56m. S is another point on the level ground 35m from O calculate:

a) The angle of elevation of T from S. (6mks)

b) The distance ST. (2mks)

c) Find the maximum possible distance between R and S. (2mks)

20. A salesman received a basic salary of sh. 50,000 a year together with a commission of 6 % on the value of goods sold and a car allowance of sh. 2.50 per km.

a) Find the total amount he received in a year in which he sells goods worth sh. 625,000 and travels 10,000km. (4mks)

b) The next year he travels 12,000km and receives a total of shs. 134,000

i) Calculate the value of goods sold. (4mks)

ii) Calculate the percentage increase in the value of the goods sold. (2mks)

21. Two airports a and B are such that B is 500km due east of A. two plane P and Q take off from A and B respectively and at the same time.

Plane P files at 360km/hr on a bearing of $030^{o}$

Plane Q flies at 240km/hr on a bearing of $315^{o}$

The two planes land after 90 minutes.

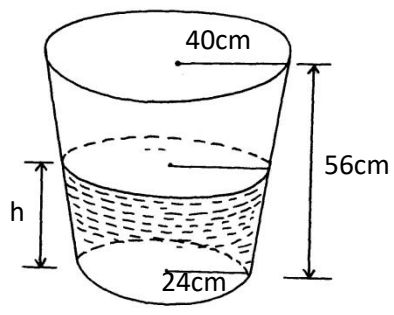
Using a scale of 1: 10,000,000

a) Show the positions of the planes after 90 min. (6mks)

b) Find the distance between the planes after 90 min. (2mks)

c) Find the bearing of plane Q from plane P after 90 minutes (2mks)

22. The figure below shows a container in form a frustrum of an open top radius 40cm and base radiu24 cm.
the depth is 56 cm.



a) Calculate the volume of the container in litres. (4mks)

b) Of the container is ¾ full of water by volume,
Calculate the radius of the meniscus. (6mks)

23. Use a ruler and compass only in this question.
a) Construct Δ ABC such that AB = 6cm AC= 8.5 cm and ∠ BAC = 120$^{o}$ (3mks)

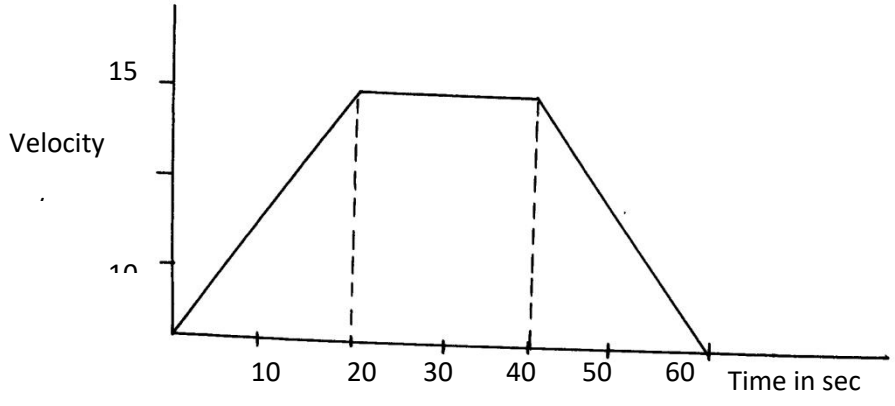
Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

b) Construct the locus ℓ, of points equidistant from A and B (2mks)

c) Construct the locus ℓzof points equidistant from AB and BC (3mks)

d) Find the points of intersection, $P_1$ and $P_2$, of $l_1$ and $l_2$ and measure $P_1P_2$ (2mks)

24. The diagram below shows the graph of a moving matatu from one bus stop to another.



a) Find the acceleration of the matatu. (2mks)

b) Find the deceleration of the matatu (2mks)

c) Calculate the distance the matatu while accelerating. (2mks)

d) Calculate the distance the matatu covered while traveling at an acceleration of $0m/s^2$ (2mks)

e) Find the distance between the two bus stops. (2mks)

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

# FORM 3 MID-TERM 2 SERIES 1 EXAMS

**NAME: …… ADM. NO……. DATE…..…..**
**SIGNATURE……**

232/1
PAPER1 2 HOURS

FORM THREE

**INSTRUCTIONS TO CANDIDATES**

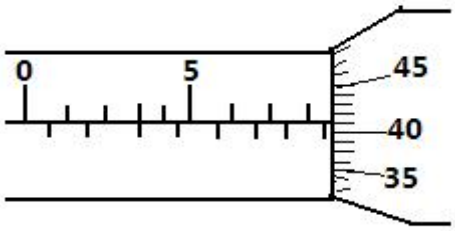
- *Write your name and index number in the spaces provided above*
- *Sign and write the date of the examination in the spaces provided*
- *Attempt **ALL** questions in sections A and B.*
- *All your answers must be written in the spaces provided in this question paper.*
- *All working must be clearly shown*
- *Non programmable silent electronic calculators and KNEC mathematics table may be used except where stated otherwise*

**For Examiner's Use Only**

| Section | Question | Maximum Score | Candidates' Score |
|---|---|---|---|
| A | Q1 – Q13 | 25 | |
| B | Q16 | 12 | |
| | Q17 | 13 | |
| | Q18 | 16 | |
| | Q19 | 14 | |
| | | 80 | |

**SECTION A (25 MARKS)** ***(Answer ALL the questions in the spaces provided)***

1. What is the reading on the micrometer screw gauge shown below with an error of +0.5mm?
   (1mk)




   ……

   ……

2. In a ball and ring experiment, the ball goes through the rings at room temperature. When it is heated it does not go through the ring, but when left on the ring for some time, it goes through. Explain this observation (2mks)

   ……

   ……

   ……

   ……

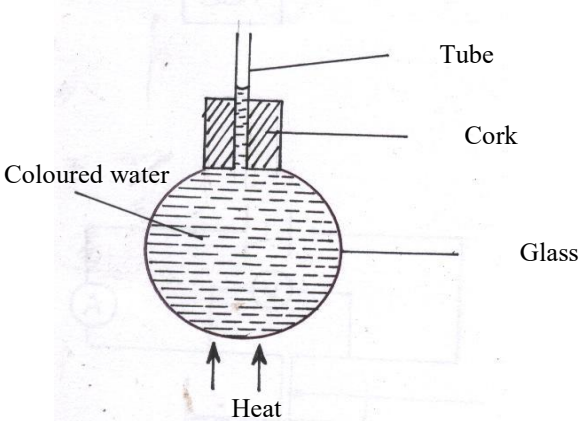
3. In the study of free fall, it is assumed that the force F acting on a given body of mass, m, is gravitational, given by F = ma. State **two** other forces that act on the same body (1mk)

   ……

   ……

   ……

4. In the set up shown below, it is observed that the level of the water initially drops before starting to rise. Explain this observation (2mks)




.....

.....

.....

.....

5. Distinguish between **speed** and **velocity.** (2mks)

.....

.....

.....

6. State how the pressure in a moving fluid varies with speed of the fluid. (1mk)

.....

.....

7. A piece of metal weighs 3N in air and 2N when totally immersed in water.
   Calculate the volume of the metal (3mks)

8. Explain how a person is able to drink a soda using a drinking straw. (2mks)

.....

.....



Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

9. Give a reason why air is not commonly used as the fluid in a hydraulic lift. (1mk)

……

……

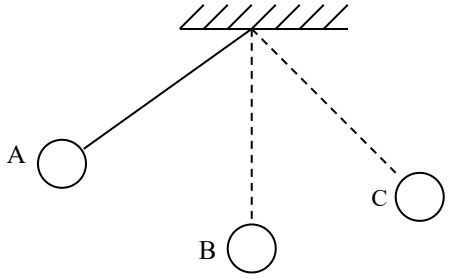
10. State **one** assumption made when estimating the size of an oil molecule in the oil drop experiment. (1mk)

……

……

……

11. The figure below shows a swinging pendulum.



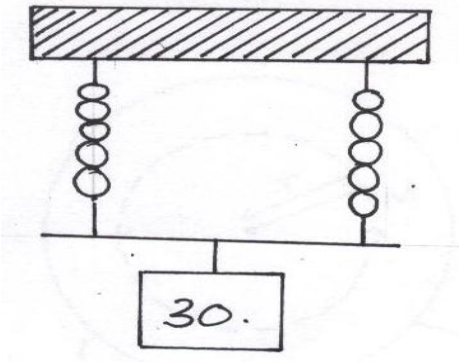

State the energy conservation taking place as the pendulum moves from A to B and B to C (2mks)

……

……

……

12. The identical springs of spring constant 3N/cm are used to support a load of 30N as shown.




Determine the extension on each spring (3mks)

……

.....

.....

.....

.....

.....

13. In a vacuum flask, the walls enclosing the vacuum are silvered on the inside. State the reason for this. (1mk)

.....

.....

14. State the features that govern the strength of a spiral spring of a given material. (2mks)

.....

.....

.....

15. Sketch velocity-time graph of a body moving down a viscous fluid. (1mk)

**SECTION B (55 MARKS)**

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

16. (a) State the principle of conservation of linear momentum. (1mk)

.....

.....

(b) Calculate the recoil velocity of a gun of mass 0.4kg which fires a bullet of mass 0.0045kg at a velocity of $400ms^{-1}$ (3mks)

(i) State **two** factors which affect frictional force of a body (2mks)

.....

.....

.....

(ii) Suggest **three** ways in which friction can be minimized (3mks)

.....

.....

.....

.....

.....

(iii) State **three** advantages of friction (3mks)

.....

.....

.....

.....

.....



Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

17.

a) Fig. 8 shows a cylindrical can filled with a liquid of density 0.8 $gcm^{-3}$. A hole of diameter 2.0 cm is drilled at a depth of 2.8 m from the top of the can.

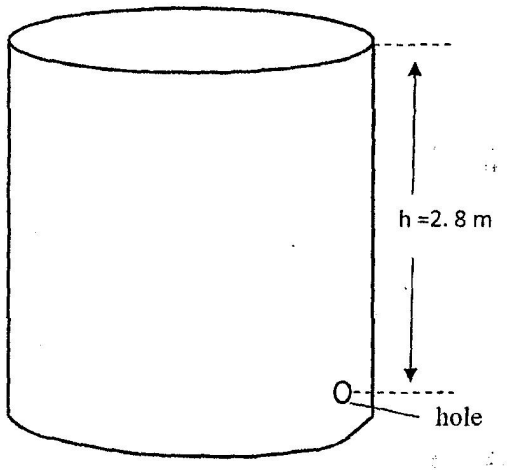



Fig. 8

Determine:

i. The cross-sectional area of the hole. (2mks)

ii. The maximum pressure exerted by the liquid at the hole. (2mks)

iii. The maximum force exerted on a jet of liquid through the hole. (2mks)

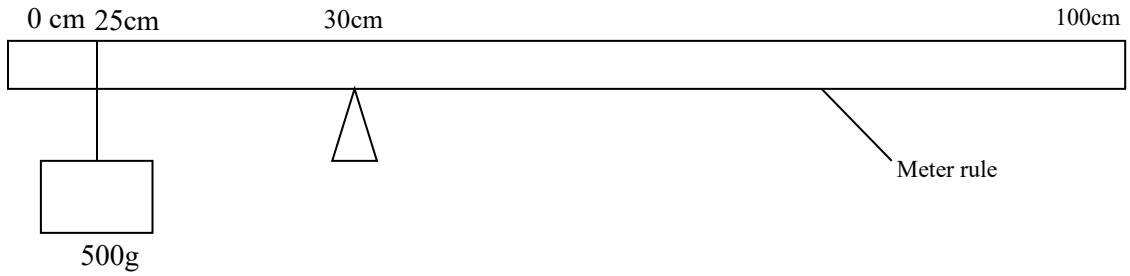
b) State the principle of moments (1mk)

……

……

……

c) A metre rule whose centre of gravity is at the 50cm mark balances at the 35cm mark when a mass of 500g is placed at the 25cm mark as shown in the figure 8 below




i. Determine the mass of the meter rule (3 mks)

ii. With the metre rule remaining on the knife-edge at the 30 cm mark, a mass of 125g is suspended from the 70 cm mark. The mass of 500g is moved until the rule is balanced. Determine the new position of the 500g mass (3 mks)

18.

a) For a body moving with a constant acceleration, a , show that:

i. $V = u + at$ where v and u are the final and initial velocities respectively while t is the time taken (2mks)

ii. $S = ut + \frac{1}{2}at^2$ where S is the distance covered (2mks)

iii. A car of mass 1200kg moving at 90km/h is brought to rest over a distance of 20m. Calculate the breaking force (3mks)

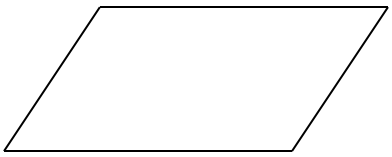
b) An object is projected vertically upwards with a velocity of 200m/s. Calculate:

i. Its velocity after 5 seconds (2mks)

ii. The distance covered in the first 8 seconds (2mks)

iii. The maximum height reached (2mks)

c) The figure below shows a uniform cardboard in the shape of a parallelogram.



Locate the centre of gravity of the cardboard. (1 mk)

d) Two samples of bromine vapour are allowed to diffuse separately under different conditions, one in a vacuum and the other in air. State with reasons the conditions in which bromine diffuse slower. (2 mks)

19.

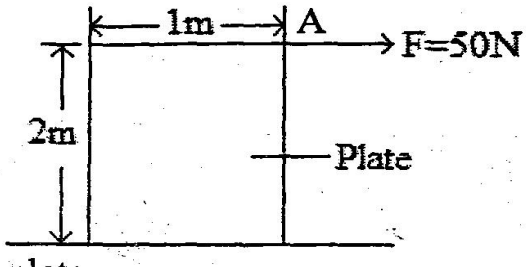
a) State **two** factors affecting stability of body (2mks)

…….

…….

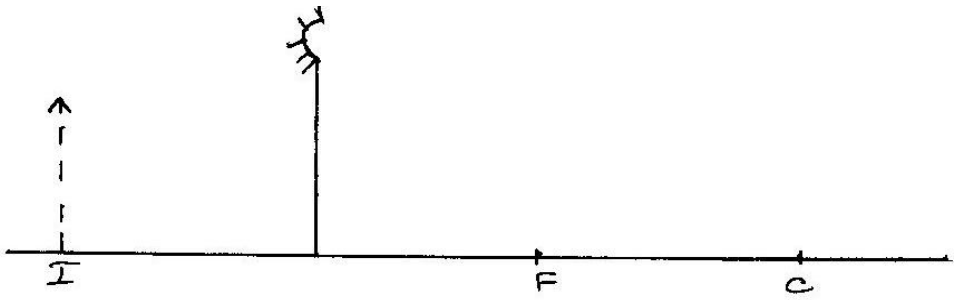
…….

b) The figure below shows a metal plate 2 m long, 1M wide and negligible thickness. A horizontal force of 50 N applied at point 'A' Just makes the plate tilt.

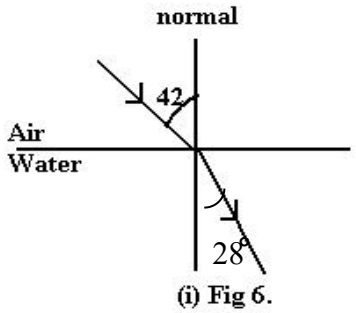



Calculate the weight of the plate. (3mks)

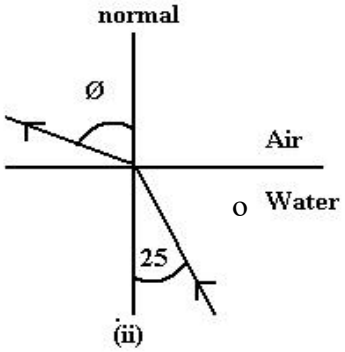
c) Fig 4 shows an image I formed by an object placed in front of a convex mirror. C is the centre of curvature of the mirror. Using ray diagram, <u>locate</u> the object position. (3mks)




d) Fig 6 (i) and (ii) show refraction of light at air-water interface. <u>Determine</u> angle Ø in figure 6(ii) (3mks)

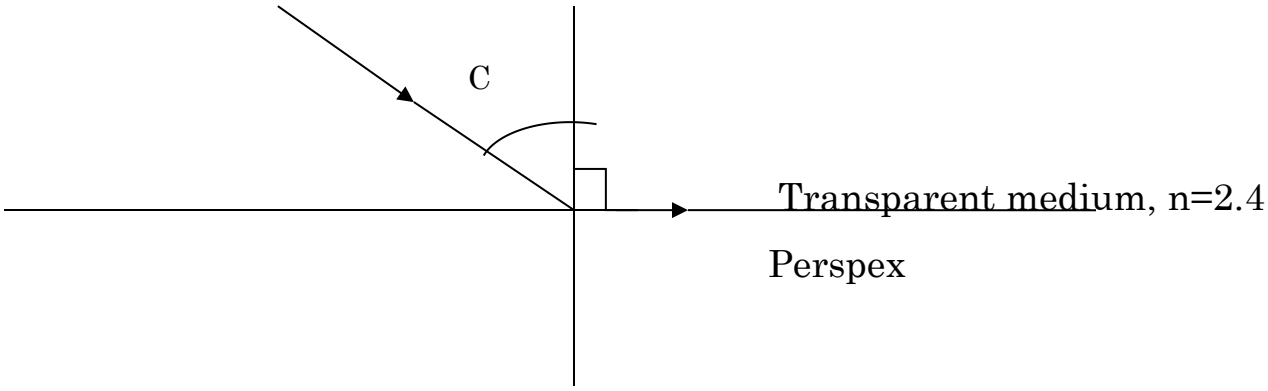


(i) Fig 6.



(ii)

e) A ray of light now travels through a transparent medium into the Perspex as shown in the figure below:




Calculate the critical angle (3mks)

# FORM 3 MID-TERM 2 SERIES 1 EXAMS

**NAME:……** **INDEX NO:……**

**SCHOOL:……..** **DATE:…….**

**SIGN:……..**

**232/2**
**PHYSICS**
**PAPER 2**
**(THEORY)**
**TIME: 2 HOURS**

**INSTRUCTIONS TO CANDIDATES**

1. Write your name and index number in the spaces provided at the top of this page.
2. Sign and write the date of examination in the spaces provided above.
3. This paper consists of TWO sections: A and B
4. Answer ALL the questions in the sections A and B in the spaces provided.
5. ALL working MUST be clearly shown.
6. Non-programmable silent electronic calculators and KNEC mathematical tables may be used.

**FOR EXAMINERS USE ONLY.**

| SECTION | QUESTIONS | MAXIMUM SCORE | CANDIDATE'S SCORE |
|---|---|---|---|
| A | 1 – 13 | 25 | |
| B | 14 | 12 | |
| | 15 | 11 | |
| | 16 | 12 | |
| | 17 | 08 | |
| | 19 | 11 | |
| **Total Score** | | **80** | |

*This paper consists of 12 printed pages.*
*Candidates should check the question paper to ensure that all pages are printed as indicated and that no questions are missing.*



Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

**Section A (25 marks)**

1. Give one difference between luminous and non-luminous sources of light. (1mk)

.....

.....

.....

2. When a negatively charged rod is brought near the cap of a leaf electroscope, the leaf rises. Explain this observation, (2mks)

.....

.....

.....

.....

3. **Figure 2** represents a displacement-time graph for a wave.

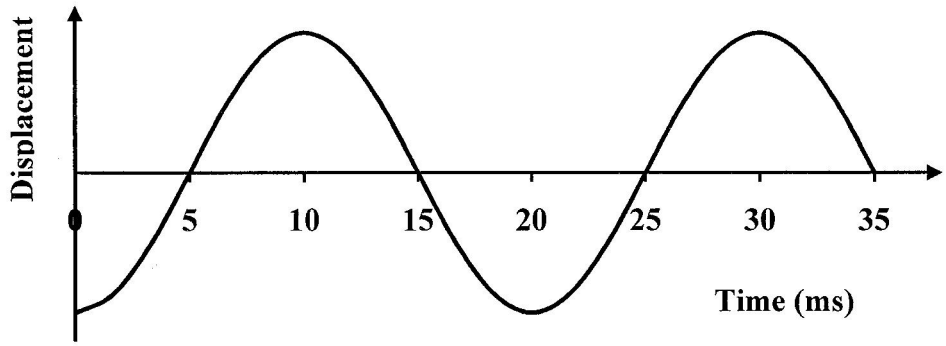



Figure 2

Determine the frequency of the wave. (2mks)

.....

.....

.....

.....

4. ***State*** the conditions necessary for a wave incident on a slit to be diffracted. (2mrks)

……

……

……

……

5. In an experiment to determine the focal length of a concave mirror, magnification M was determined for various image distances v. Figure 3 shows a graph of magnification M against image distance v for the results from the experiment.

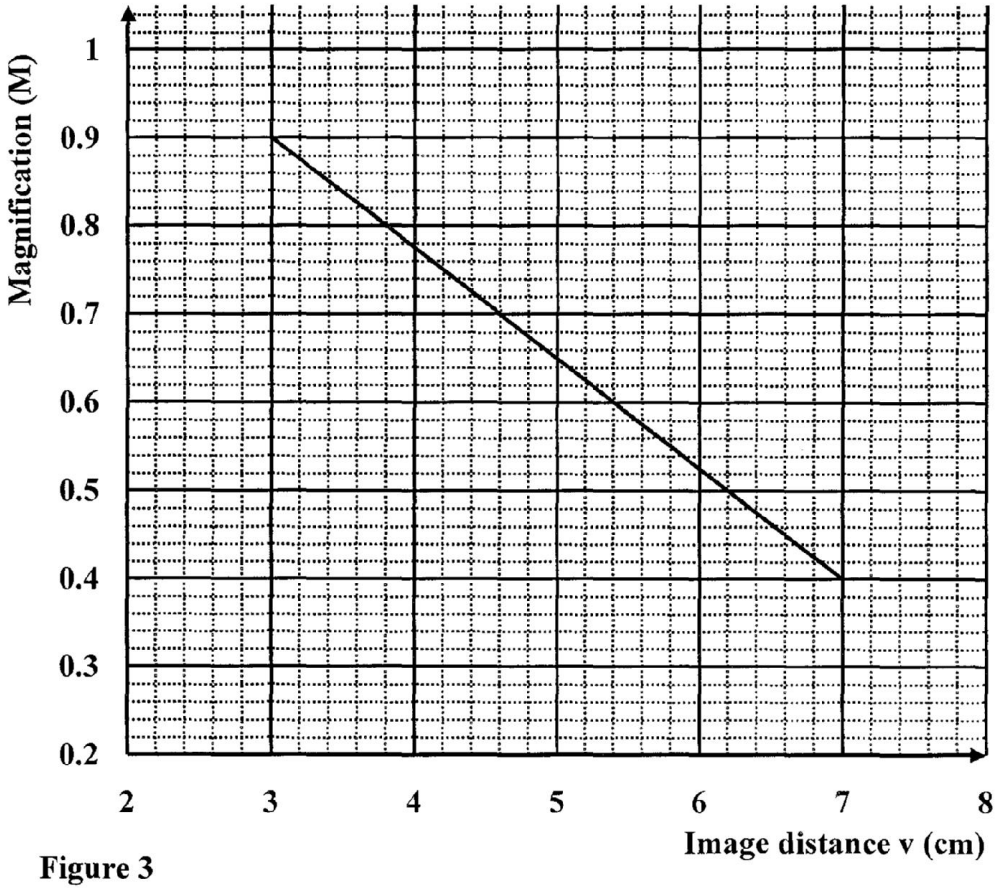



**Figure 3**

Given that M = 1 $\frac{v}{f}$, determine the focal length f of the mirror. (3mks)

.....

.....

.....

.....

6. A hair dryer is rated 2500W, 240V. Determine its resistance. (2mks)

.....

.....

7. **Figure 4** shows the magnetic field pattern round a current-carrying conductor. Indicate on the conductor the direction of the current. (1mk)

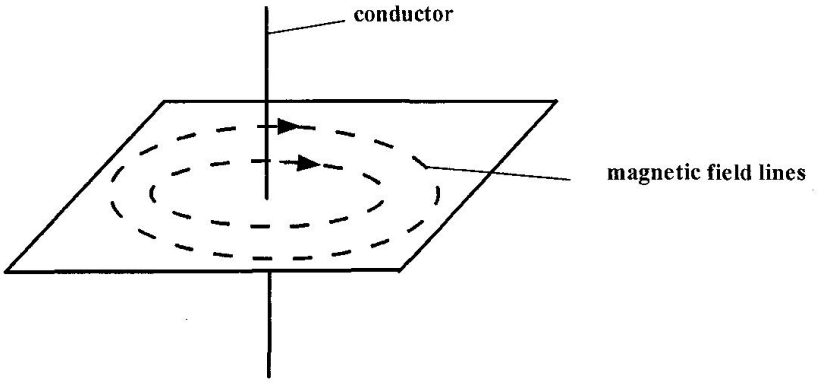



Figure 4



Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

8. Why is repulsion the sure test for a magnet? (1mk)

.....

.....

9. **Figure 5** shows a ray of light incident on an air bubble which is inside water,

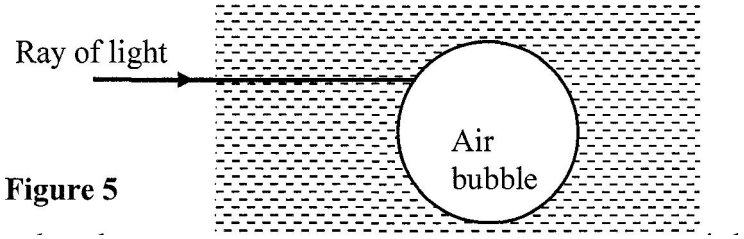



**Figure 5**

Complete the ray to show the path it follows through the air bubble. (1mk)

10. Explain how polarization of a cell increases the cell's internal resistance. (2mks)

.....

.....

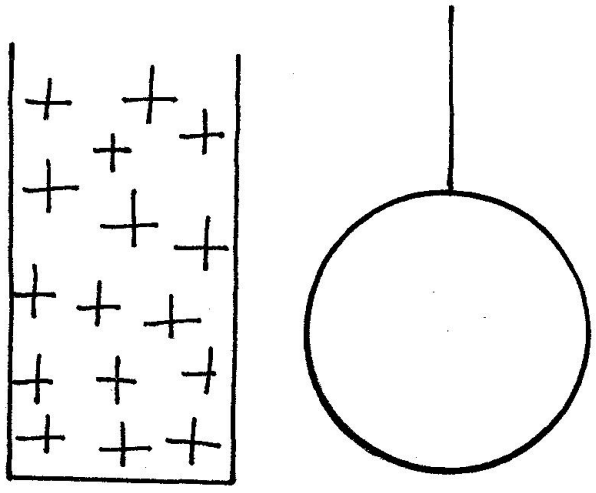
.....

.....

11.

1. A positively charged material was brought close to an insulated metallic ball as shown in Fig 4. State and explain the distribution of charge in the ball (2mks)

**Fig. 4**



.....

.....

.....

.....

2. Explain why sound cannot be heard from far when one shouts in a forest (1mk)

……

……

12. Using the variation of resistance with temperature, differentiate between a conductor and a semiconductor. (1mk)

.....

.....

.....

.....

13. A cell of internal resistance O.5 Ω is in a circuit containing a 10 Ω resistor. A current of 2A flows in the circuit. Determine the emf of the cell. (2mks)

.....

.....

.....

.....

**Section B (55 marks)**

**14.** (a) (i) State Snell's law of refraction of light (1mk)

……

……

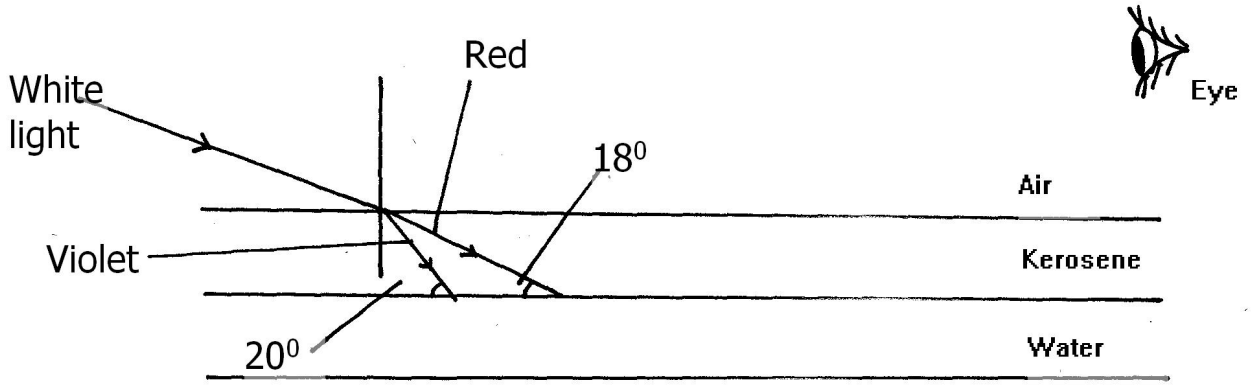
(ii) Give two advantages of totally internally reflecting prisms over plane mirrors. (2mks)

……

……

(b) A ray of light is incident on a kerosene water interfaces as shown in figure 7

Fig. 7




Given that the refractive index of water and kerosene are 1.33 and 1.44 respectively, Determine

(i) the refractive index for the kerosene – water interface (3mks)

……

……

……

……

……

……

(ii) determine and show on the figure the path of the rays of light between the Kerosene-water surface (3mks)

……

……

……

……

……

……

(iii) Why does the colours of the light separate at the kerosene layer. (1mk)

……

……

(iv) State and explain the observation that the eye above the two surfaces would see (2mks)

……

……

……

……



Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

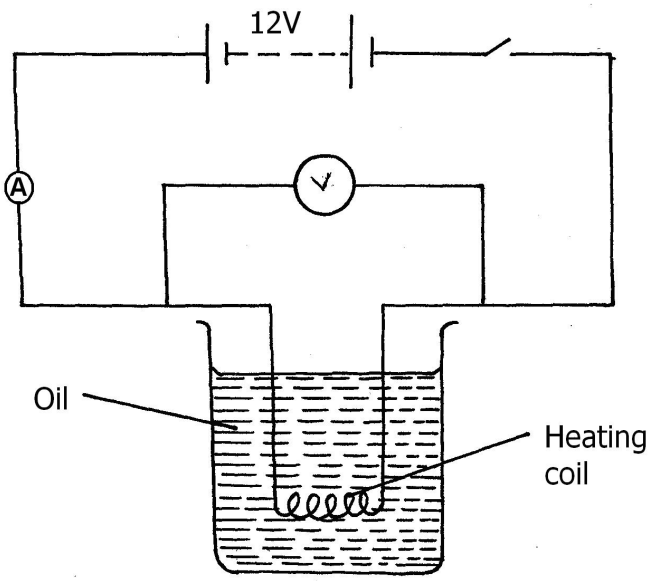
15. (a) State Ohm's law (1mk)

……

……

(b) The figure 8 below shows a circuit with a coil used to warm oil in a beaker.

**Fig. 8**




(i) Explain how heat is produced in the coil (2mks)

……

……

……

……

(ii) Given that the reading of the ammeter is 2.4A determine the resistance of the coil. (3mks)

……

……

……

……

(iii) How much heat is produced in the coil in a minute? (3mks)

……

……

……

……

(iv) Give two changes that can be made in the set up in order to produce more heat per minute. (2mks)

……

……

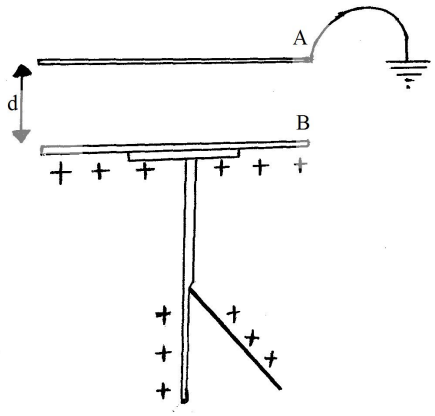
……

16. (a) Define capacitance of a capacitor (1mk)

.....

.....

The figure below shows a charged electroscope two aluminium plates A and B arranged a shown




State and explain the observations made when:

(i) d is reduced (2mks)

.....

.....

(ii) the plate A is more horizontally (2mks)

.....

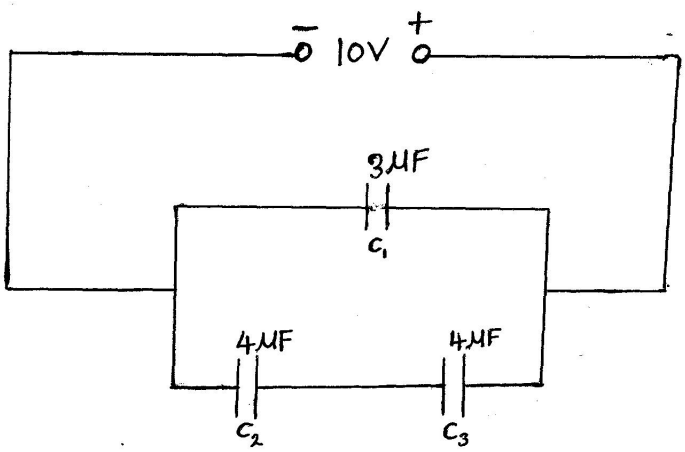
.....

(iii) a sheet of polythene is placed between A and B (2mks)

.....

.....

(b) Three capacitors are connected to a 10V battery as shown below.

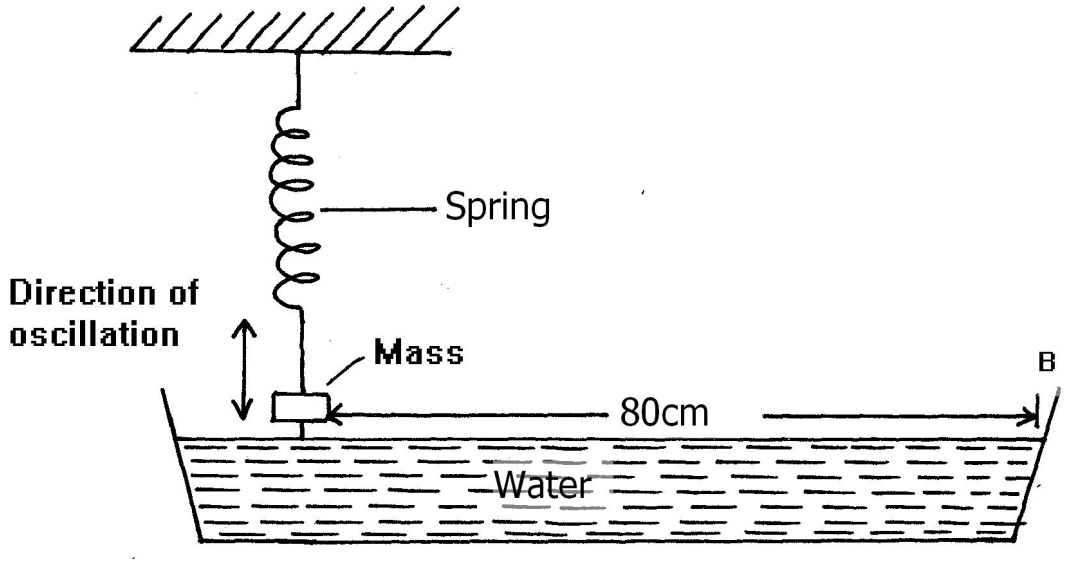



(i) Calculate the combined capacitance (3mks)

(ii) What is the charge on the 3 $\mu$ F capacitor (3mks)

17. Students set up a mass attached to spring such that when it oscillates it taps on water surface in a wide shallow tank.

**Fig. 6**




The students measured time for 20 oscillations and found that the mass takes 36 seconds.

(i) Determine the periodic time of the mass (2mks)

……

……

(ii) Calculate the frequency of the waves produced on the water surface (3mks)

……

……

……

……

(iii) Given that the student counted four ripples between the mass and end B of the tank, Determine the speed of the waves. (3mks)

……

……

……

……

……

……

18.

a. A machine is a device that enables work to be done more easily and conveniently. State any two ways in which a machine makes work easier. (2 marks)

……

……

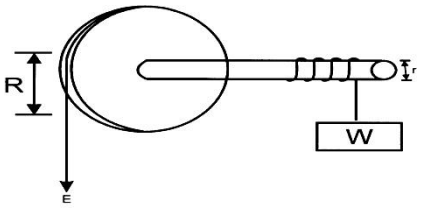
……

……

……

……

b. Figure 7 shows a wheel and axle being used to raise a load W by applying an effort E. The radius of the wheel is R and of the axle is r.




i) Show that the velocity ratio (V.R) of this machine is given by $\frac{R}{r}$ (3 Marks)

……

……

……

……

……

……

ii) Given that r = 5cm and R = 50cm, determine the effort required to raise a load of 200N if the efficiency of the machine is 90%. (3 mks)

……

……

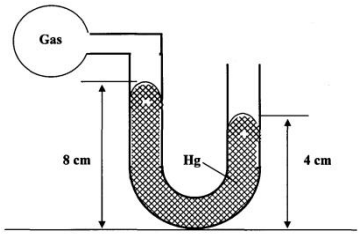
……

……

……

……

c. An airtight flask containing a gas is connected to a mercury manometer. The levels of mercury in the two limbs of the manometer are as shown in the diagram below.




Calculate the pressure of the gas (Density of mercury = 1.36 x $10^4$ kg/$m^3$ and atmospheric pressure = 1.0 x$10^5$ N/$m^2$) (3mks)

……

……

……

……

……

……



Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

d. State one way of making the surface tension of a liquid stronger. (1mk)

……

……

……

# FORM 3 MID-TERM 2 SERIES 1 EXAMS

**Name……ADM.NO……CLASS**

**Candidates Signature……**

**Date……**

**232/3**

**PHYSICS**

Paper 3

PRACTICAL

**2 ½ 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 working must be clearly shown
- Non-programmable silent calculator may be used

## FOR EXAMINERS USE ONLY

| Question | Maximum | Candidates Score |
|---|---|---|
| 1 | 20mks | |
| 2 | 16mks | |
| ii) | 4mks | |
| Total | | |



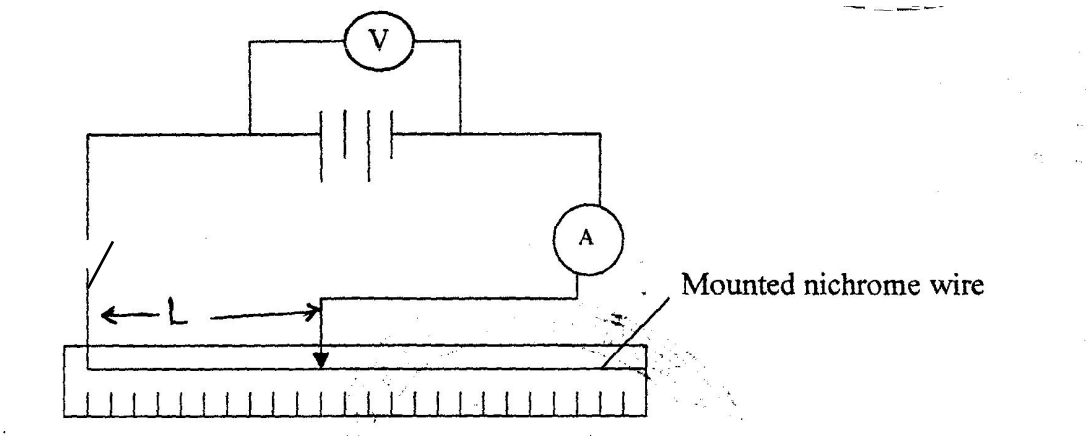
Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

1.You are provided with the following apparatus

- Two new dry cells and a cell holder
- A voltmeter (0-3v) or (0-5v)
- A ammeter(0-1A)
- 5 connecting wires – at least two with crocodile clips
- 1m length nichrome wire mounted on a mm scale (SWG 32)
- A micrometer screw gauge
- A switch

In this experiment you are required to determine the resistivity of the wire

Connect the apparatus as shown in the diagram below




ii) Slide the wire mounted on the meter rule to give a set of readings for values of I and V respectively for length L ranging from 10cm to 70cm .Record the results in the table below (6 marks)

| LEGTH L(cm) | LEGTH L(m) | Current I(A) | Voltage (V) | R=V/I |
|---|---|---|---|---|
| 0.1 | | | | |
| 0.2 | | | | |
| 0.3 | | | | |
| 0.4 | | | | |
| 0.5 | | | | |
| 0.6 | | | | |
| 0.7 | | | | |

iii)from the table what relationship is there between length of the wire and R.(1mk)

……
……

iv)use the micrometer screw gauge provided to measure the diameter of the wire

d=……mm d = ……m (1 mk)

Hence find the cross sectional area A of the wire mounted on the ruler that you used.(2mks)

……
……

v)Using the results from your table to plot a graph of R against L. (4mks)

vi)From the graph find the value of I when L=0.2 m and V =1.8V.(2MKS)

……
……

(VII)Calculate the slope of the graph (2mks)

……
……

(viii)Hence calculate the resistivity of the wire given that R=$\frac{pL}{A}$ (2mks)

……
……

**QUESTION 2**

2. You are provided with the following apparatus

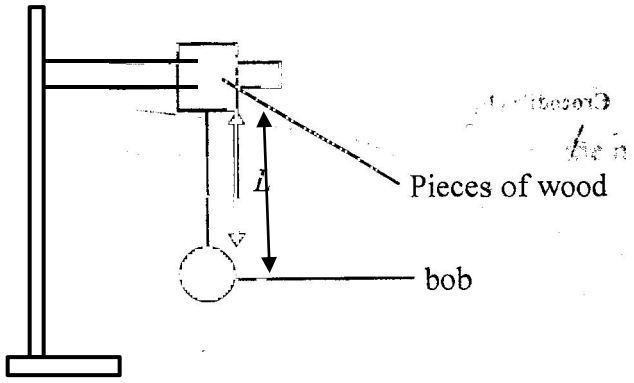
- A pendulum bob
- A cotton thread 1m long
- Two small pieces of wood
- A retort stand and clamp
- A metre rule
- A stop watch
- Some cello tape



Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

Proceed as follows

(a) Clamp the pendulum as shown starting with L= 80cm




You are required to determine the constant 'b' using a simple pendulum

(a) Give the bob a small displacement 0 and record the time't' for 20 oscillations. .Record also the periodic time T, for one complete oscillation

(b) Repeat (b) for values of L as shown in the table. Enter your readings in the table. Work out also $T^2$ and enter these values in the table.

| Length L(cm) | Time for 20 oscillations | Period T | $T^2$( $s^2$) |
|---|---|---|---|
| 80 | | | |
| 70 | | | |
| 60 | | | |
| 50 | | | |
| 40 | | | |
| 30 | | | |
| 20 | | | |

(9 mks)

(c) Plot a graph of $T^2$ against L. (5 mks)

(d) Determine the slope of the graph and state its units. (3 mks)

(e) The equation for the graph is given by

$$T^2 = \frac{4\pi^2 L}{b} + C$$

Where b and C are constants. Determine the value of b stating its significance. (3 mks)



Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes