

FINE TUNE SERIES COMBINED FORM 4 EXAMS

***For marking schemes, contact/Whatsapp
madam.Mariam @(0746711892)***

Access:
-both midterm and end term
exams
-kcse past papers
-kcpe past papers
whatapp/contact/sms madam
Mariam@0746711892



For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

NAME _____ INDEX NO _____

DATE _____ CANDIATES SIGNATURE _____

443/1

AGRICULTURE

FORM 4 pp 1

TIME: 2 HRS

TERM 1 Answer all the questions in this section in the spaces provided

1a) Distinguish between flood irrigation and basin irrigation (1mk)

b) Give two maintenance practices required in flood irrigation system. (1mk)

2) State the fate of water added to soil in crop field. (2mks)

3a) Name two crops which after harvesting are processed using a flail. (1mk)

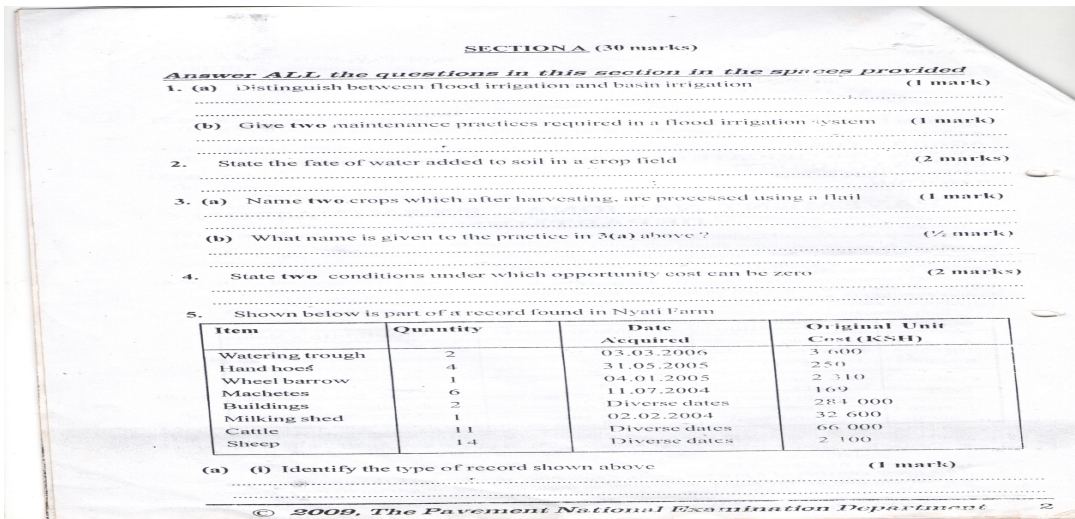
b) What name is given to the practice in 3a above. (1/2mk)

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

4 State two conditions under which opportunity cost can be zero.

(2mks)

5. Shown below is part of a record found in Nyali farm



a) i Identify the type of record shown above.

(1mk)

ii) Give reason for your answer to a (i) above.

(1mk)

b) What other column should be added to this record, to make it complete.

(1mk)

6 Give two disadvantages associated with burning as a land clearing method.

(1mk)

7(a) Name three components of rooting mixture used in polythene sleeves in raising tree seedlings.

(3mks)

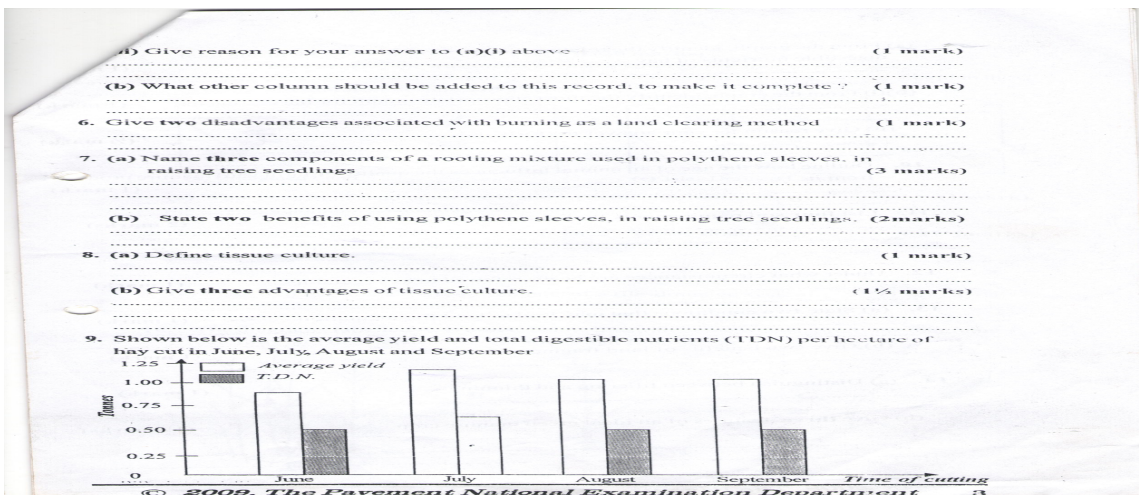
For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

b) State two benefits of using polythene sleeves, in raising tree seedlings. (2mks)

8. a) Define tissue culture. (1mk)

b) Give three advantages of tissue culture

9. Shown below is the average yield and total digestible nutrients (TDN) per hectare of hay cut in June, July, August and September



a) From the graph identify the relationship between average yield and total digestible nutrients of hay. (1mk)

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

a) From the graph, identify the most appropriate month of harvesting hay. (1mk)

10. Outline how the age of an animal influences the quality of farm yard manure production form it. (1mk)

11. List four soil requirements for tomatoes. (2mks)

12. Under what circumstance are beans referred to as vegetables. (1mk)

13a) State two conditions that may lead to land fragmentation. (1mk)

b) Give two benefits of land fragmentation. (1mk)

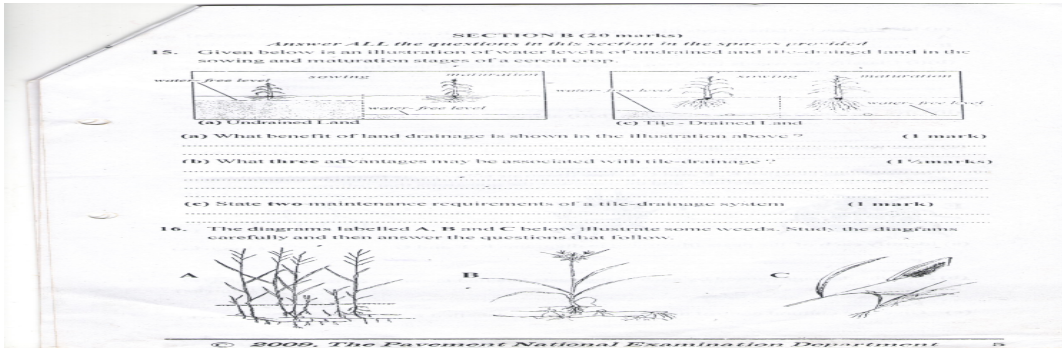
14a) Distinguish between tillering and thinning. (1mk)

b) Give three features of an ideal green manure crop. (11/2 mks)

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

SECTION B (20MKS)

15 Given below is an illustration of water levels of undrained and tile – drainage land in the sowing and maturation stage of cereal crop

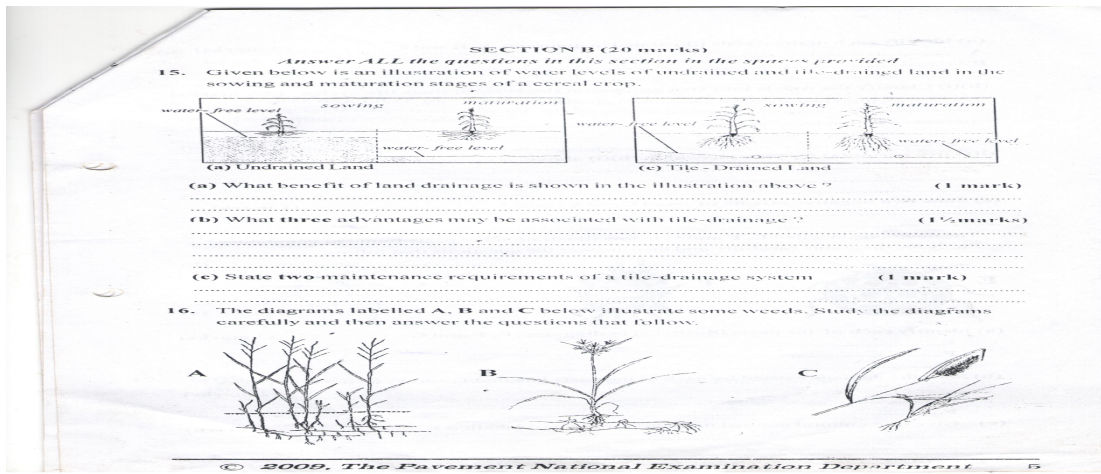


a) What benefit of land drainage is shown in the illustration above? (1mk)

b) What three advantages may be associated with tile-drainage? (11/2mks)

c) State two maintenance requirements of tile-drainage system. (1mk)

16. The diagrams labeled A,B and C below illustrate some weeds. Study the diagrams carefully and then answer the questions that follow.



a) Identify each of the weeds illustrated in diagram A,B and C. (3MKS)

A

B

C

B)i Classify the weeds into two groups, on the basis of their life cycles. (21/2marks)

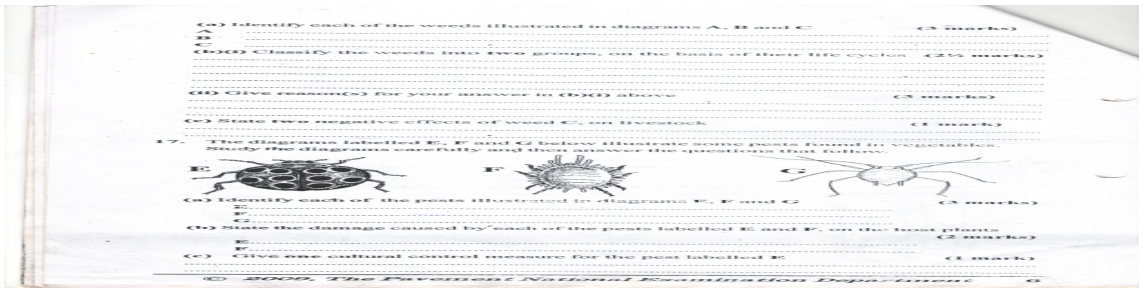
ii) Give reasons for you answer in (bi) above.

(3mks)

c)State two negative effects of weed C, on livestock.

(1mk)

17. The diagram labeled E, F and G below illustrate some pest found in vegetables study the diagrams carefully and then answer the questions that follow



a) Identify each of the pest illustrate in diagram E,F, and G. (3MKS)

B) State the damage caused by each of the pest labeled E and F, on the host plants. (mksa_

c)Give one cultural control measure for the pest labeled E (1mk)

d) Other than vegetables name two crop plants that may be infested with the pest labeled G

SECTION C (40MKS)

Answer an two question in this section the space provided

18Discuss vegetable crops under the following sub- headings

a)Definition of vegetable. (1mk)

b)Management of perishability vegetables. (4mks)

c)Importance of vegetables.

(6mks)

d)Common stem vegetables.

(4mks)

e)Staking in tomatoes.

(5mks)

19a) Discuss budding a applied in crop production under the following sub-headings

i) Timing

(5mks)

ii) Advantages over grafting.

(4mks)

iii) Materials used.

(6mks)

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

iv) Briefly describe whip grafting.

(5mks)

20 Discuss wind erosion under the following sub- headings

a) Destructive effects of wind erosion on crop plants.

(5mks)

e) Factors affecting susceptibility of soil to wind erosion.

(15mks)

AGRICULTURE PAPER 2

FORM 4

NAME

ADM

CLASS

v) State four mechanical methods of controlling ticks. (4mks)

vi) Give two examples of feed addicted in cattle. (1mk)

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

vii) Name the mineral deficiently that causes each of the following condition in livestock.

Grass stagger (Tetany) (1/2mk)

Milk fever/parturient paresis (1/2mk)

viii) Name two hormones produced in a lactating cow. (2mks)

ix) What is referred to as a 'Notifiable disease' (1mk)

b) Name four examples of notifiable diseases in livestock. (2mks)

x) Outline three pre-disposing factors of footrot disease in sheep.(1 ½ mks)

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

xi) List any four metal work tools and equipment used in the farm. (2mks)

xii) Outline four qualities of eggs for incubation. (2mks)

xiii) State four prophylactic measures used by a farmer to control livestock diseases. (2mks)

xiv) Give three methods of feeding colostrums to newly born calves. (1 ½ mks)

xv) A) Define the term “zoonote disease.” (1mk)

b) Give two examples of zoonote diseases. (1mk)

xvi) List three advantages of hedges. (1 ½ mks)

xvii) Why is it necessary to provide grit to birds? (1mk)

xviii) State four good qualities of honey. (2mks)

xix) State two causes of soft shell in eggs. (1mk)

xx) Name three methods of livestock selection. (1 ½ mks)

xxi) Name a tool used for tightening barbed wires during fencing. (1mk)

SECTION B. (Answer all the questions.)

xxii) Study the diagram of an egg below and answer the question that follow.



i) Name the parts labeled N, Q and P. (1 ½ mks)

N

Q

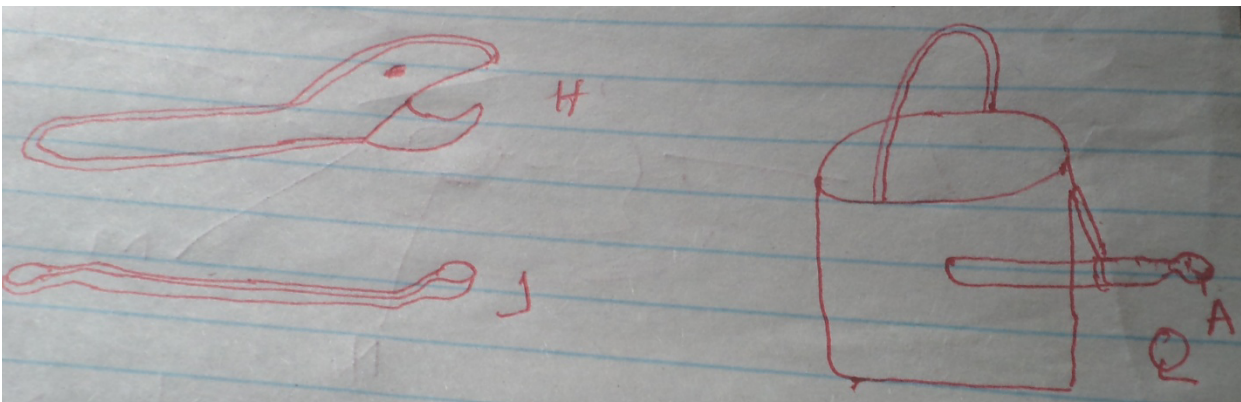
P

ii) State the function of the parts labeled M and L. (1 ½mks)

iii) Why should the egg be turned during incubation. (1mk)

xxiii) State four reasons of treating timber. (4mks)

xxiv) Below are the diagrams of workshop tools H, J and Q. Study them and answer the question that follow.



For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

i) Identify each tool. (1 ½ mks)

H

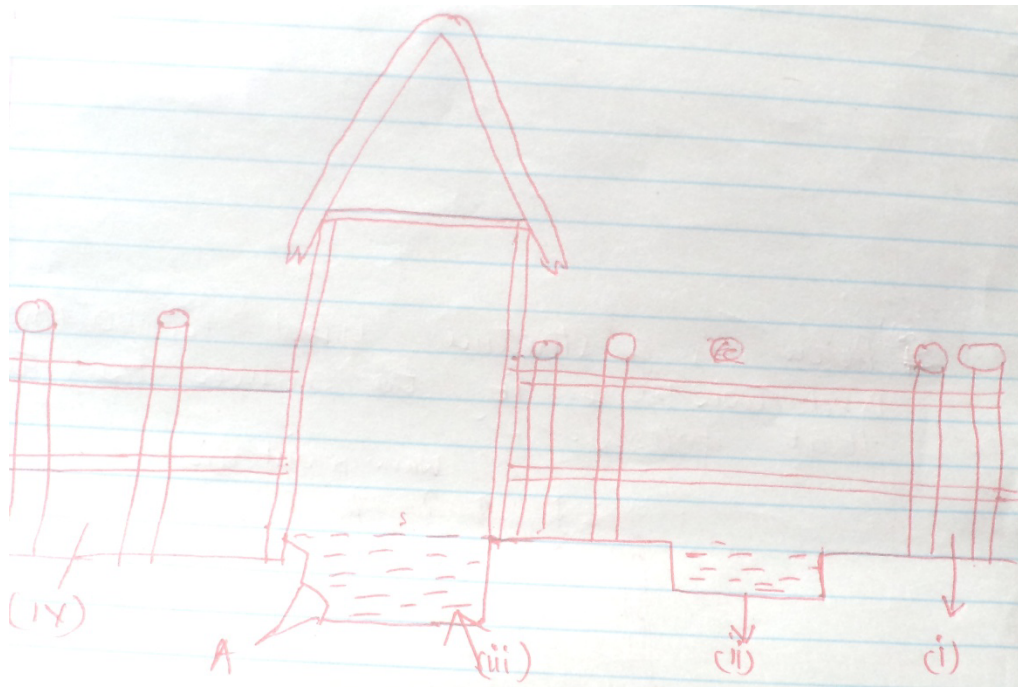
J

Q

ii) What functional advantages does H have over J. (1mk)

iii) Why is the part labeled H an important component of watering can. (1mk)

xxv) Below is a diagram of a certain farm structure. Use it to answer the questions that follow.



a. Name the parts labelled.

b)

ii.

iii.

iv.

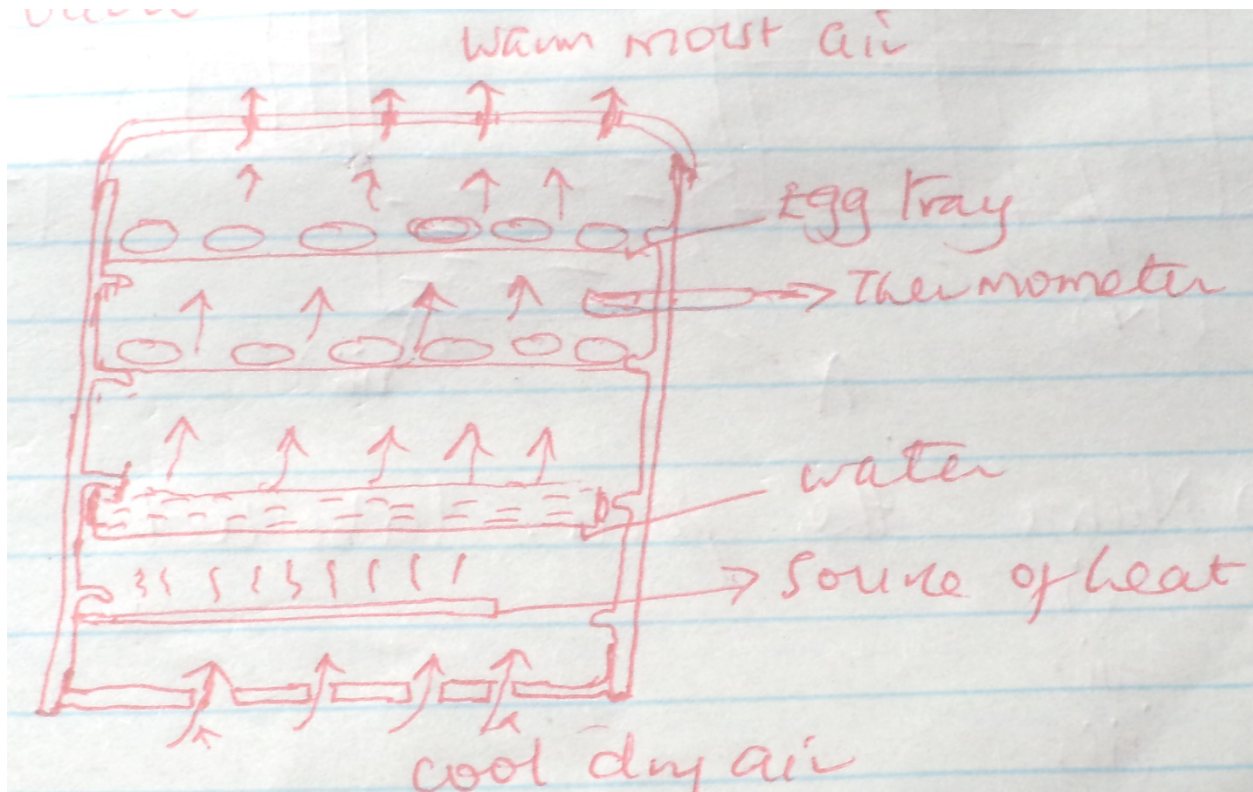
b. Identify the part labeled A.(1/2 mk)

c. Give the function of the part labeled A.(1/2 mk)

d. State two maintenance practice carried out in part (ii) above. (2mks)

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

xxvi) Below is a structure used in poultry production. Use it to answer the questions that follow.



b) Identify the structure. (1mk)

c) State the main function of the structure. (1mk)

d) Give the function of the following in the structure.

Water (1/2 mk)

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

Thermometer (1 /2 mk)

SECTION C

Answer any two questions in this section.

xxvii) A) Outline the use of fence in the farm. (10mks)

b) Discuss the tractor transmission system. (10mks)

xxviii) A) Discuss foot and mouth disease under the following sub-headings.

Animal affected. (2mks)

Methods of transmission. (2mks)

Symptoms of attack. (4mks)

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

Control measures. (2mks)

b. Outline general control measures of livestock parasites. (10mks)

xxix) Outline the various methods of maintaining farm tools and equipment. (8mks)

b. Describe artificial rearing of layer chicks from day one to end of brooding. (12mks)

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

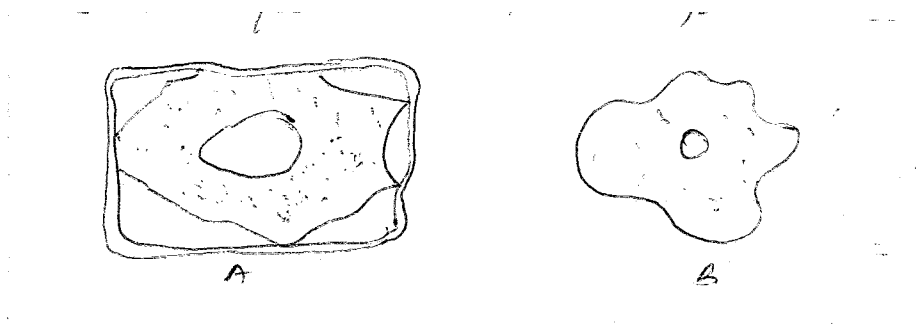
For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

END TERM 1
BIOLOGY FORM 4 PAPER 2
TIME 2 Hrs

NAME: ADM NO: CLASS:

Instructions to candidates: Answer All Questions in the Spaces Provided

XXX) The diagram shows two types of cells placed in a certain solution. Study them and answer questions that follow



a. Name the physiological process responsible for the observed results.
[1 Mark]

b. Give the correct biological term used to describe cells A & B.
[2 Marks]

A –

B –

xxxi) The equation below shows a chemical reaction that takes place in plants.

Carbon (iv) oxide + water

A + water

- a. Identify substance A.
Mark]

[1

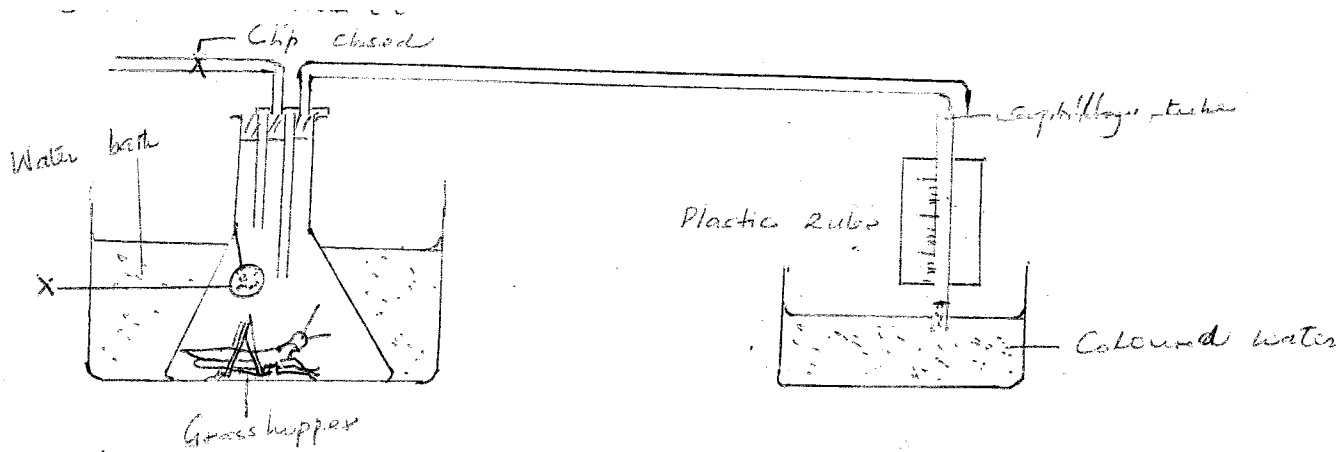
- b. Name the process represented by the equation.
[1 Mark]

- c. Other than the reactants state two conditions necessary for this reaction.
[2 Marks]

i.

ii.

xxxii) The diagram below illustrates an experiment used to determine rate of respiration in a small insect.



- a. Name the chemical compound labeled X and state its function.
[2 Marks]

Compound –

Function –

b. Why is the conical flask placed in a water bath?

[1 Mark]

c. What would happen to the level of coloured water after 5 minutes? Explain:

[2 Marks]

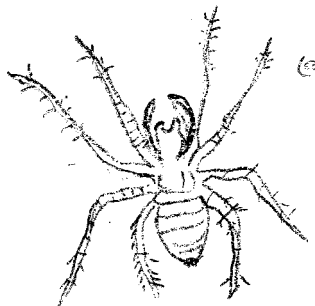
d. How can a control experiment be set?

[1

Mark]

xxxiii) In a biology lesson a student collected the animal in the diagram below.

Use it to answer questions that follow;



a. Name the phylum and class to which the organism belongs

i. Phylum _____

[1 Mark]

ii. Class _____

[1 Mark]

b. Give two reasons for your answer in 1 (i), (ii) above

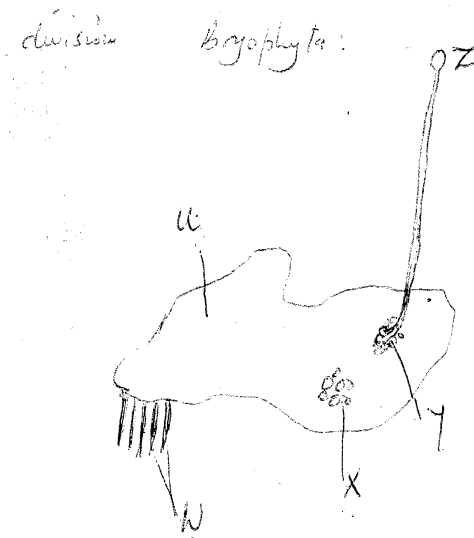
[4

Marks]

i. _____

ii. _____

xxxiv) The diagram below represents a plant in the division Byrophyta:



a. Name the parts labeled

[5

Marks]

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

U

W

X

Y

Z

b. Name one function of part labeled.
Marks]

[3

X

Y

Z

xxxv)

a. It is observed that when apical bud of a plant is removed, lateral buds sprouts, where as they do not sprout in presence of the apical bud;

i. What is the biological term used to describe this?
Mark]

[1

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

ii. Give one application of this phenomena in agriculture.
[1 Mark]

b. State four roles of IAA in plant growth and development:
[4 Marks]

c. In epigeal germination the cotyledon is brought above the soil surfaces;
Explain

[2 Marks]

xxxvi)

a. State 2 structural modifications of nephrons in desert mammals.
[2 Marks]

b. State a kidney disease whose symptom is coloured and turbid urine
[1 Mark]

xxxvii) In a biological experiment; a cross was made between a tall pea plant & dwarfs plants; their progeny was selfed and the resulting plants were in a mixture in the ratio of 3:1. Make a biological cross to show these outcomes.
[4 Marks]

xxxviii) Explain geographical distribution as evidence of organic evolution.
[2 Marks]

SECTION B

Answer Questions 10 (Compulsory) and either question 11 or 12 in the Spaces Provided

xxxix) The table below shows the changes observed in the dry weight in milligrams of a barley seedling, its embryo and Endosperm during the first ten days after the onset of germination.

	Dry weight in milligrams		
Time (days)	Embryo	Endosperm	Whole seedling
0	2	41	45

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

2	2	39	43
4	7	32	41
6	15	21	38
8	22	11	35
10	35	6	43

a. Using a suitable scale and on the same axis, plot a graph of dry weight of embryo, endosperm and whole seedling against time.

[8 Marks]

b. State and account for the changes in dry weight shown by:-

i. Endosperm

[4 Marks]

ii. Embryo

[4 Marks]

c. Explain the role of water during germination
Marks]

[4

xl)

a. Describe how the mammalian heart is adapted to its function
[10 Marks]

b. How does gaseous exchange take place in terrestrial plants?
[10 Marks]

xli)

a. How is the Epidermis of a green plant adapted to its function?
[6 Marks]

b. Describe how structural factors affect rate of transpiration in plants
[8 Marks]

c. Describe how xerophytes adapted to minimize water loss in their habitat.
[6 Marks]

PAPER 231/3

PRACTICAL.

QUESTIONS.

MAX.40 MKS.

ANSWER ALL THE QUESTION IN THE SPACES PROVIDED.

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

Food substance	Procedure	Observation	Conclusions

Answer
all the

questions in the spaces provided.

- iv) You are provided with substance L. Carry out food tests on the substance using the reagents provided. Record your procedure, observations and conclusions in the table below. (9mks)

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

v) a

vi)

vii)

viii)

ix)

x)

xi)

xii)

xiii)

xiv)

xv)

xvi)

xvii)

xviii)

xix)

xx)

xxi)

xxii)

xxiii)

xxiv)

xxv)

xxvi)

xxvii)

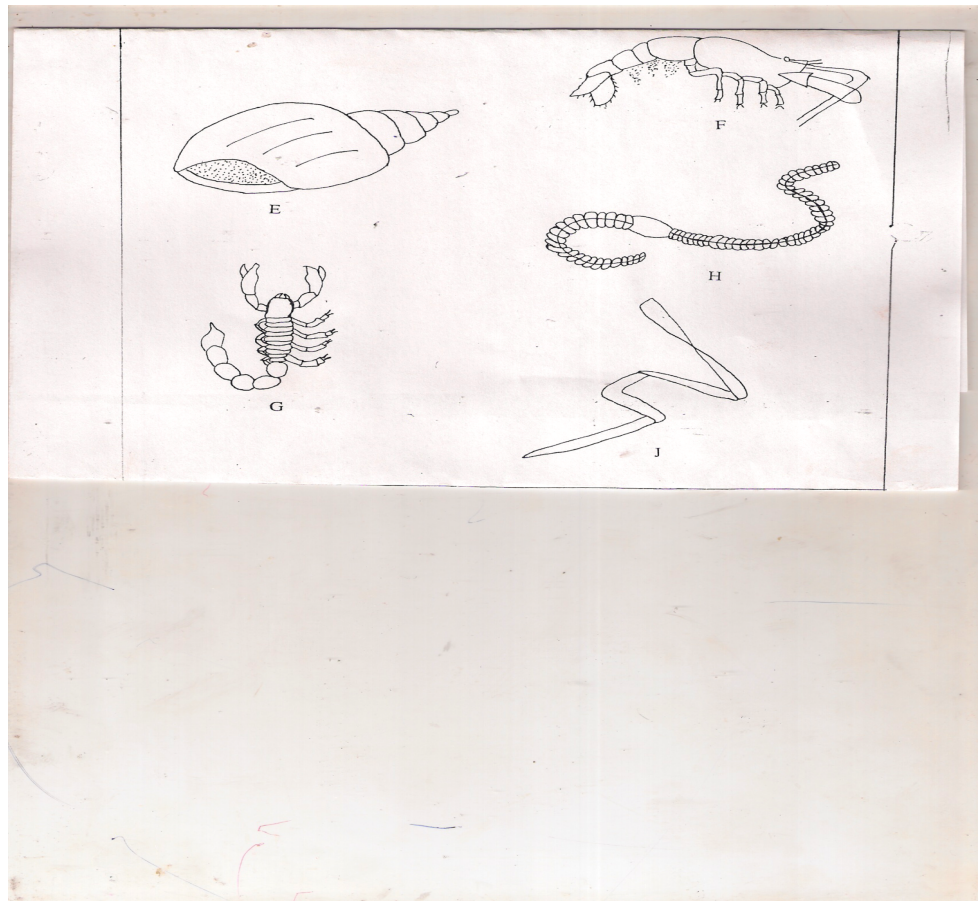
During a visit to a museum, students were shown ten specimens of organisms on display. The teacher provided a dichotomous key (shown in a separate page) to enable them to place each species on display into its taxonomic group. Five of the specimens that were on display are shown in the diagrams provided.

Dichotomous Key.

- 1.(a) Animal with a flattened body.....go to 9.
(b)Animal without a flattened body..... go to 2.
- 2.(a)Animal with body in a shellMollusca.
(b)Animal with body in shell..... go to 3.
- 3.(a)Animal with segmented body.....go to 4.
(b)Animal with body not segmented.....Nematoda.
- 4.(a)Animal with jointed appendages go to 6.
(b) Animal without jointed appendages to 5.
- 5.(a)Animal with long and cyndrical body.....annelida.
(b)Animal with short stout body..... Trenada.
- 6.(a) Animal with antennae.....go to7.
(b) Animal without antennaego to 8.
- 7.(a)Animal with one pair of antennae..... Insecta.
(b) Animal with more than one pair of antennae..... crustacean.
- 8.(a)Animal with pincer –like mouthparts..... Arachida.
(b) Animal with sucking mouth parts.....Acarina.
- 9.(a)Animal with long ribbon-like bodycestoda.
(b) Animal with circular body..... rinoidea).

Use the dichotomous key to identify the taxonomic group of each of the five specimens shown in the drawings.

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)



In each case, show in sequence the steps (ef 1a,2a,5a, 7b) in the key that you followed to arrive at the identify of each specimen.(5mks)

Animal	Steps followed	Identity
E
F

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

G

H

J

b)i) Name the phylum and the class to which specimen M belongs(2mks)

Phylum:

Class:

ii) Name the observation features that enabled you to place it in the class above.(3mks)

(c)With the help of a hand lens, examine the body of specimen M.

i)State with a reason in each case the observable features that enable the specimen to

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

be a disease vector.(2mks

(ii) Name one disease transmitted by specimen M.(1mk)

iii) State two methods that can be used to prevent specimen M from spreading diseases.(2mks)

xxviii) You are provided with specimens labeled S₁ S₂ and S₃

b) Using a scarpel blade split S₁ longitudinally and draw a well labeled diagram to show the internal structures.

State your magnification (4mks)

c) With a reason ,state the class to which the plant from specimen S₁ belongs to.

Class(1mk)

Reason(1mk)

d) Specimen S₂ is a germinated seedling of S₁.In the table below, name three structures

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

and say which structure in S_1 developed into the structure in S_2 .

Structure in S_1	Structure in S_2

d.(i) Using specimens S_1 and S_3 , name the type of germination in :-

S_4

S_3 (1mk)

ii. Give the difference between the this type of germination in (d) (i) above (2mks)

iii. Account for the type of germination in :-

S_1 2mks

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

S₃(2mks)

Biology paper 3.

Paper 231/3.(Practical).

CONFIDENTIAL INSTRUCTIONS:

NB/Requirement instruments:

- xlii) About 10ml of substance L.
- xlili) 4 clean test tubes on a rack.
- xliv) A means of heating
- xliv) Test tube holder.
- xlvi) A scalpel.
- xlvii) A house fly labeled specimen M.
- xlviii) A dry bean seed labeled S₁.
- xliv) A bean seedling labeled S₂.
- l) A maize seedling labeled S₃.
- li) 1% copper (II) sulphate solution.
- lii) 10% sodium hydroxide solution.
- liii) Benedict's solution.
- liv) Iodine solution.

Note:

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

- e. To make substance L, mix egg albumen and starch.
- f. Specimen S₂ and S₃ should be ready 1 week before the exams and must have the seeds intact.

NAME.....ADM NO.....CLASS.....

SIGNATURE.....DATE.....

BIOLOGY
PAPER 1
(THEORY)
TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES:

Write your **Name**, **Class** and **Adm no** in the spaces provided above.

Answer **all** the questions in this paper in the spaces provided.

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

FOR EXAMINER'S USE ONLY:

Question	Maximum Score	Candidate's Score
1 - 25	80	

1. (a) Define the term 'parthenocarpy'.

(1mk)

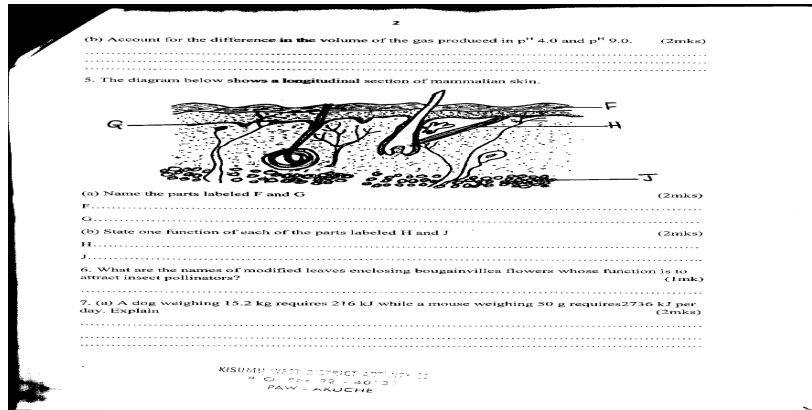
(b) Name two plant growth hormones that promote parthenocarpy. (2mks)

2. Name the organelle that performs each of the following functions in a cell

(i) Protein synthesis. (1mk)

(ii) Transport of cell secretions. (1mk)

3. The diagram below shows a longitudinal section of mammalian skin.



a) Name the parts labelled F and G. (2mrks)

F _____

G _____

b) State **one** function of each of the parts labelled H and J

(2mrks)

H _____

J _____

4. Other than carbon (IV) oxide, name other products of anaerobic respiration in plants (2mks)

5. (a) Name the fluid that is produced by sebaceous glands.

(1mk)

g. State **two** functions of sweat on the human body.

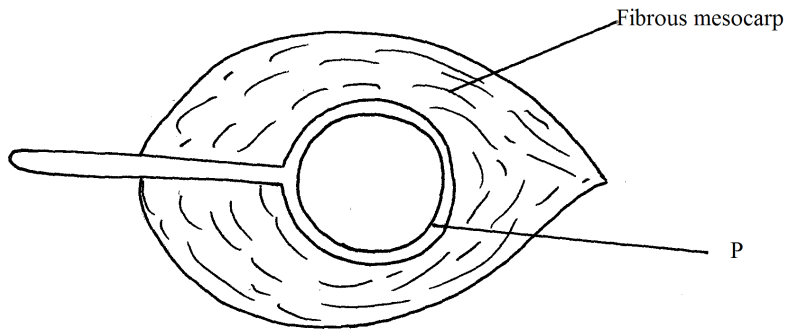
(2mks)

6. (a) State **two** characteristics that are used to divide the phylum arthropoda into classes. (2mks)

(b) Name the class with the largest number of individuals in the phylum Arthropoda. (1mk)

7. Why are people with blood group O referred to as universal donors? (1mk)

8. The diagram below represents a longitudinal section of a fruit



(a) Name structures labeled P (1mk)

(b) Describe two adaptations of the fruit for its mode of dispersal (3mks)

(i) Mode of dispersal

(ii) Adaptation

9. (a) What causes the following diseases?

(i) Diabetes mellitus. (1mk)

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

(ii) Diabetes insipidus. (1mk)

b) An individual shows the symptoms for diabetes mellitus, how would you determine in the school laboratory whether they are positive for the condition? (3mks)

10. In an attempt to estimate the number of weaver birds in a small woodland 435 were captured , marked and released. Three days later, 620 were captured 75 of which were marked.

a) What is the name of the sampling method described above? (1mk)

b) Calculate the approximate size of the weaver bird population in the woodland. (2mks)

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

c) Give one disadvantage of this method. (1mk)

11. Identify the nucleic acid whose base sequence is shown below.

G-A-C-U-A-G-A-C-G

i) Identify the type of nucleic shown above (1mk)

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

iii) Write the base sequence of a DNA strand for the nucleic acid shown above (1mk)

12. The diagram **below** shows a mature embryo sac of a flowering plant.

e) Name the parts labeled **A** and **B** (2mks)

A _____

B _____

(b) What is the function of the structure labeled B? (1mk)

13. (a) Name the tissues that transport water in plants. (1mk)

(b) State why the tissue above is said to be dead. (1mk)

14. The diagram **below** shows regions of growth in a root. Study it and answer the questions that follow.

f) Name the zone labeled **B**

_____ (1mk)

(b) State the function of part **K**

(1mk)

(c) State three characteristics of the cells found in zone **C**

(3 mks)

15. The enzymes pepsin and trypsin are secreted in their inactive forms. Explain why they are secreted in these inactive forms. (1mk)

16. (a) Give two examples of natural selection in action. (2mk)

b) List three features that make man the most dominant species on earth. (3mks)

17. Study the diagram **below** of a neurone in human being.

(a) Identify the neurone. (1mk)

g) Name the parts labeled.

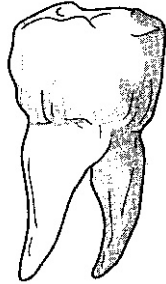
A _____ (1mk)

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

B _____ (1mk)

h) Using an arrow indicate the direction of movement of a nerve impulse along the neuron (1mk)

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



(a) Identify the tooth. (1mk)

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

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

19.a) Name the part of the brain that regulates breathing

(1mk)

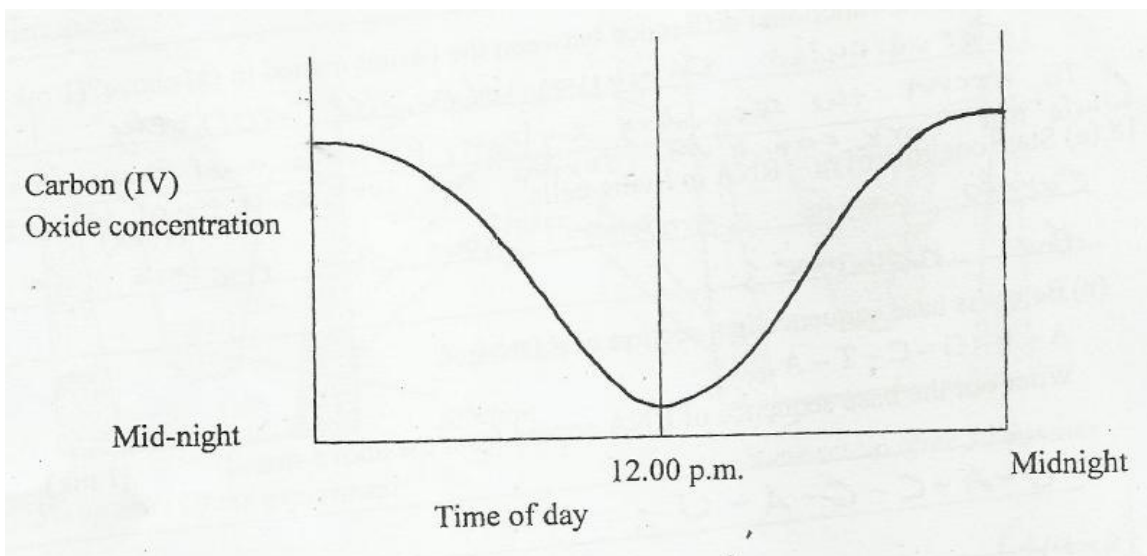
b) Give two ways through which the body responds to increased concentration of oxide in the blood

carbon (IV)

(2mks)

c) Name the structures in pneumatophores through which gaseous exchange occurs. (1mk)

20. The concentration of carbon (IV) oxide in a tropical forest was measured during the course of 24 hours period from mid-night to mid-night.



For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

Account for the results obtained at mid day.

(2mks)

21. The diagram **below** represents the anterior view of a certain vertebra.

(a) With a reason, identify the type of vertebra shown **above**.

(2mks)

f) Name the parts labeled.

(i) **A** _____

(1mk)

(ii) **D** _____

(1mk)

(c) State the function of part **E**.

(1mk)

22. (a) State one similarity between diffusion and osmosis

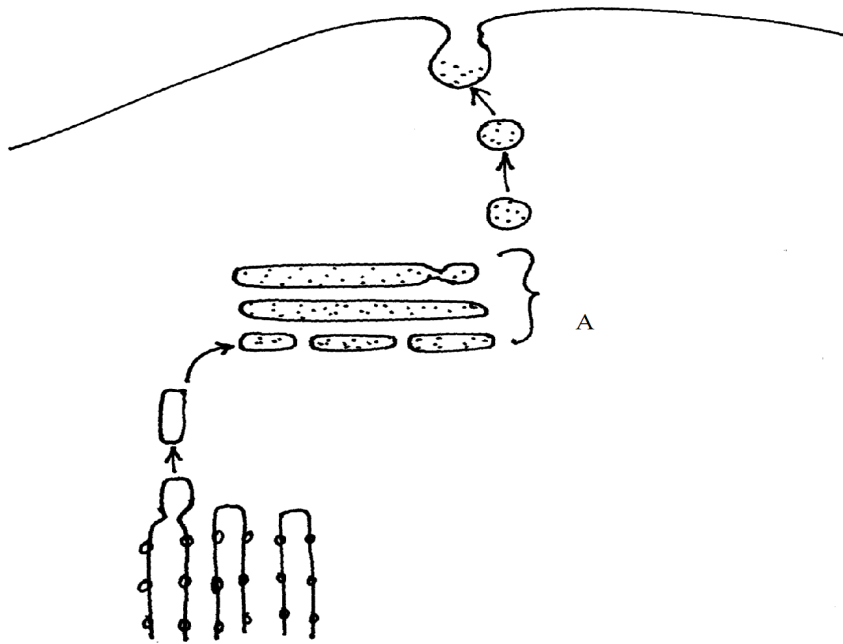
(1mk)

(b) State two factors that can reduce the rate of active transport

(2mks)

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

23. Study the diagram below and use it to answer the questions.



a) Identify the organelle marked A.

(1mk)

b) Give three functions of the organelle named in (a) above

(3mks)

24. It was found that during germination of pea seeds 9.3cm^3 of carbon (iv) oxide was produced while 9.1cm^3 of oxygen was used up.

a) Calculate the respiratory quotient (RQ) of the reaction taking place. (2mks)

b) Identify the type of food substance being metabolized. (1mk)

25. What is the biological importance of the larval stage during metamorphosis (2mks)

NAME.....ADMNO.....CLASS.....

565/1

**BUSINESS STUDIES – FORM FOUR
PAPER 1
END OF TERM I**

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

2 HOURS

INSTRUCTIONS TO CANDIDATES

- xxix) Write your name, class and admission number in the spaces provided above.
- xxx) Answer all the questions.
- xxxi) All the answers should be written in the spaces provided in this booklet.
- xxxii) All the questions should be answered in English.

e) State **four** characteristics of services. (4mks)

a).....

b).....

c).....

d).....

f) Outline **four** disadvantages of division of labour. (4mks)

a).....

b).....

c).....

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

d).....

g) Mention **four** advantages of using Automatic Vending Machines. (4mks)

a).....

b).....

c).....

d).....

h) Give **four** benefits one gets from self-employment. (4mks)

a).....

b).....

c).....

d).....

i) Outline **four** factors to consider when intending to buy office furniture. (4mks)

a).....

b).....

c).....

d).....

j) Name the source document to which each of the following description relate. (4mks)

Description

source document

h. Issued by the seller to a buyer for cash paid

i. Used for processing and authorizing payments

j. Sent to a credit buyer to demand payment

k. Used to correct undercharge

k) Outline **four** principles of co-operatives. (4mks)

a).....

b).....

c).....

d).....

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

l) Highlight **four** measures that the government puts in place to create conditions that will be favorable for business development. (4mks)

a).....

b).....

c).....

d).....

m) State **four** advantages of transporting oil by pipeline rather than by road. (4mks)

a).....

b).....

c).....

d).....

n) Outline **four** advantages of audio-visual communication. (4mks)

a).....

b).....

c).....

d).....

o) Highlight **four** ways in which the production activities of firms in your country affect the environment. (4mks)

a).....

b).....

c).....

d).....

p) Highlight **four** disadvantages of a private warehouse. (4mks)

a).....

b).....

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

c).....

d).....

- q) Ragati and Nzonge operates a business with a stock valued at ksh.350,000 and have interests of $\frac{3}{5}$ and $\frac{2}{5}$ respectively. Ragati decided to insure $\frac{2}{4}$ of the stock against fire. Sometimes later fire occurred at their business premises and destroyed stock worth ksh. 250,000. Calculate the amount of compensation Ragati would get from the insurance company. (4mks)

.....
.....
.....
.....
.....

- r) Outline **four** sources of monopoly power. (4mks)

a).....

b).....

c).....

d).....

- s) Name **four** sources of public finance. (4mks)

a).....

b).....

c).....

d).....

- t) State **four** benefits that would accrue to a customer who borrows a loan from a non-bank financial institution. (4mks)

a).....

b).....

c).....

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

d).....

u) Match **each** of the statements given below with the relevant type of capital. (4mks)

Statement

Type of capital

lv) Resource invested into a business by the owner

lvi) Excess of current assets over current liabilities

lvii) Amount invested into the business by outsiders

lviii) Represents total finance in a firm

v) The following information was extracted from the books of farmers choice supermarket on 31st Dec 2009

	shs
Average stock	30,000
Closing stock	40,000
Purchases	336,000
Carriage inwards	2,000
Return outwards	18,000
Margin	1/6

Required. Calculate sales for the year .

4mks

.....

.....

.....

.....

.....

.....

w) Outline **four** important characteristics of a general journal. (4mks)

a).....

b).....

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

c).....

d).....

x) Apex traders provided you with the following

Margin	25%
Cost of sales	15,000
Opening stock	2,000
Closing stock	1,000
Operating expenses	2% of capital
Sales and capital	are in the ratio of 1:4

Calculate :

i) Rate of stock turnover

j) Purchases

k) Return on capital

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

y) Indicate the subsidiary ledger in which each of the following should be recorded. 4mks

Account

Subsidiary ledger

g) Return inwards

h) Bank

i) Drawings

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

j) Juma traders (a debtor)

k) Discount received

f. Uchumi wholesalers (a supplier)

z) Highlight **four** types of advertising. (4mks)

a).....

b).....

c).....

d).....

aa) State **four** natural sources of energy in Kenya. (4mks)

a).....

b).....

c).....

d).....

ab) The statement below described various types of goods. Identify the type of goods best described by each statement. (4mks)

a. Owned by the government on behalf of its citizens.

b. Goods that are capable of directly satisfying human want.

c. Goods that are used to make other goods.

d. Goods that get spoilt within a very short time.

ac) Identify **four** reasons why many youths in urban centre are starting hawking businesses. (4mks)

a).....

b).....

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

c).....

d).....

FORM FOUR BUSINESS STUDIES

END TERM ONE

565/2

PAPER 2

Instructions to the candidates.

Choose any five questions. All questions carry equal marks.

c) (a) Highlight five characteristics of an efficient tax system. (10mks)

lix) Differentiate between a public limited company and a public corporation.
(10mks)

d) (a) Explain clearly the malpractices by traders against which consumers may need protection by the government. (10mks)

(b) Explain clearly with the aid of a diagram the change in equilibrium as a result of a change in demand of a commodity. (10mks)

e) (a) Discuss five benefits that a customer may get by using Automated Teller Machine (ATM) for financial transactions. (8 mks)

(b) The following trial balance related to Kimani's business as at 31st December 2012

	DR(SHS)	CR(SHS)
Stock on 1 st January 2003	60,000	
Purchases and sales	400,000	580,000

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

Returns	20,000	50,000
Debtors and Creditors	65,000	40,000
Premises	540,000	
Machinery	200,000	
Fixtures and fittings	100,000	
Carriage outwards	8,000	
Wages and salaries	30,000	
Discounts	25,000	32,000
Commissions	16,000	14,000
Cash in hand	70,000	
Capital		<u>818,000</u>
	<u>1,534,000</u>	<u>1,534,000</u>

REQUIRED:

- ad) Prepare a trading profit and loss account for the period ended 31st December 2012 and a balance sheet as at that date if the closing stock was worth shs 70,000 (12 mks)
- f) (a) Explain clearly the problems associated with expenditure approach method in measurement of national incomes. (10mks)
- l) Outline five reasons why ethical practices is necessary in product promotion. (10mks)
- g) (a) Jane, a petty cashier was given Sh ,2000 on 1st June 2005. During the month, she made the following payments:
2005
- June 2 Stationery Sh 100, staff tea Sh 80.
 - 5 Telephone bill Sh 50, postage stamps Sh 100.
 - 8 Travelling Sh 200, telephone Sh 100.
 - 10 Stationery Sh 50, staff tea Sh 100.
 - 15 Postage stamps Sh 50, travelling Sh 100.
 - 20 Sundry expenses Sh 100.
 - 23 Stationery Sh 80, telephone Sh 40.
 - 25 Travelling Sh 50, sundry expenses Sh 100.
 - 28 Envelopes Sh 20, staff tea Sh 50.
 - 30 Adhiambo, a creditor, was paid Sh 100.
- Use the following analysis columns to prepare a petty cash book:
Stationery, Staff tea, Travelling. Telephone, Sundry expenses. Ledger accounts. (12 mks)

(b) Explain five demerits that a country may suffer when the government becomes a major investor in business. (8 mks)

h) (a) Explain the role played by insurance industry in promoting the development of Kenyan economy. (10mks)

xxxiii) Explain clearly the tools of monetary policy used by the central bank to control inflation. (10mks)

3. The use of CFC_5 has been linked to the depletion of the ozone layer.
- What does CFC stand for? (1mk)
 - Explain the problem associated with the depletion of the ozone layer. (1mk)
 - State another environmental problem caused by CFC_5 .
4. In an experiment to prepare Nitrogen (I) oxide, ammonium nitrate was gently heated in a flask.
- Write the equation for the reaction that took place in the flask. (1mk)
 - State and explain how the gas was collected. (1mk)
 - A sample of the gas was tested with damp blue and red litmus paper what observations were made. (1mk)

5. During an experiment sulphure (IV) oxide gas was formed to diffuse through a certain pore at a rate of 25cm^3 per minute. When the experiment was repeated under the same conditions with another gas G, gas G was found to diffuse through the same pore at a rate of 26.26cm^3 per minute. Work out the molecular mass of Gas G. (O=16, S=32) (3mks)

6. Element Y whose atomic number 11 react with chlorine gas to form a compound.

a) Name the group and period to which Y belongs. (1mk)

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

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

7. Draw all structural formulas for all the isomers with molecular formula $C_2H_3Cl_3$. (2MKS)

8. Calculate the volume of 0.6M sulphuric (VI) acid solution needed to neutralize 30cm^3 of 0.2M potassium hydroxide. (2mks)

9. Use dot (.) and crosses (x) to show the bonding of the following compounds.

iv) NH_3 (1MK)

v) NH_4^+ (1MK)

10. Analysis of a compound showed that it had the following composition: 69.42% carbon, 4.13% hydrogen and the rest oxygen. If the molecular formula of the compound (C=12, O=16, H=1) (3MKS)

11. A reference book states that the solubility of CuSO_4 in water at 15°C is $19\text{g}/100\text{g}$ of water. What is meant by this statement. (1mk)
12. State two uses of hydrogen gas. (2mks)
13. Explain how a solid mixture of sulphur and potassium Chloride can be separated into solid sulphur and potassium chloride. (3mks)
14. Aqueous ammonia was added to a solution copper (ii) sulphate dropwise until in excess. State the observations made when
- A few drop of aqueous ammonia were added.(1mk)

b) Excess aqueous ammonia was added. (1mk)

15. By use of chemical equations distinguish the reaction of magnesium with water and magnesium with steam. (2mks)

16. The table below gives the number of electrons, protons and neutrons in substances X, Y, and Z.

Substance	Electrons	Protons	Neutrons
X	10	10	10
Y	10	8	10
Z	8	8	8

a) Which letter represents an ion? (1mk)

b) Which of the substances are isotopes? Give a reason. (2mks)

17. a) What is meant by the terms.

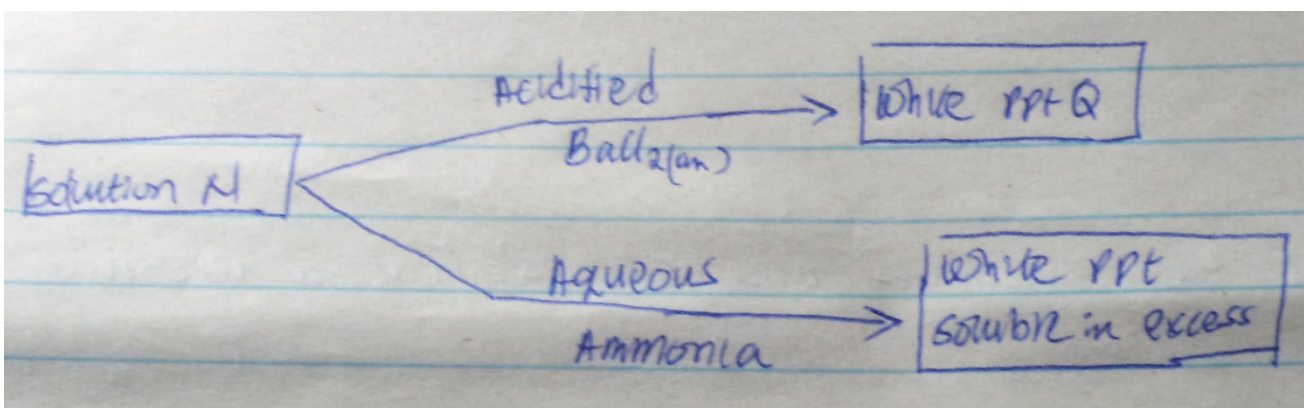
For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

1) Element (1mk)

2) Atomic number (1mk)

i) The formula for a chloride of titanium is $TiCl_3$. What is the formula of its sulphate? (1mk)

18. The chart below shows a scheme of reactions involving a sample of solution N. Study it and answer the questions that follow.



1) Identify the cation and the anion in solution N, (2mks)

2) Write an ionic equation to show how Q is formed. (1mk)

19. Name the process

Solid carbon (IV) oxide (dry ice) changes directly into gas. (1mk)

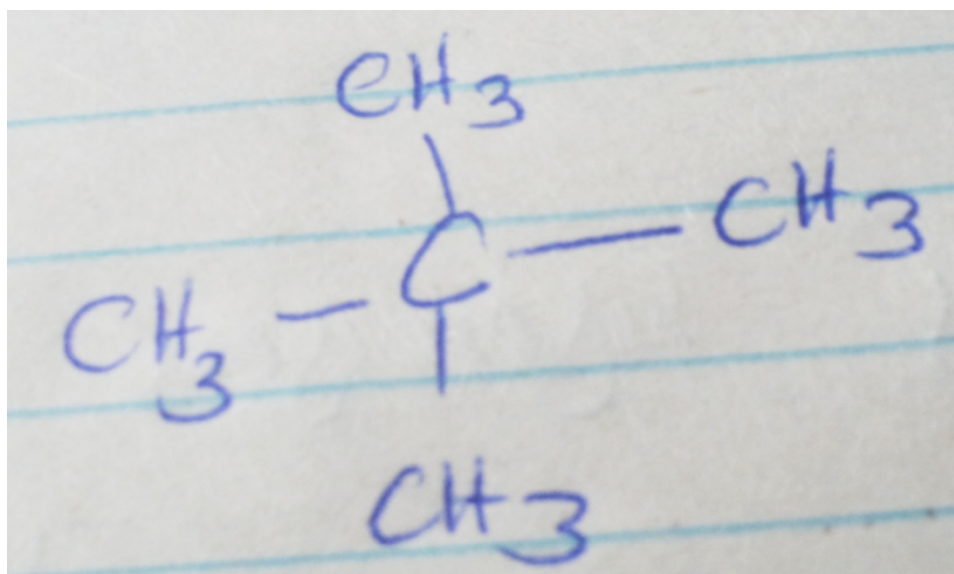
20. When carbon (IV) oxide gas was passed through aqueous calcium hydroxide a white precipitate was formed.

a) Write an equation for the reaction that took place. (1mk)

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

- b) State and explain the changes that would occur when excess carbon (iv) oxide gas is bubbled through the white precipitate. (2mks)

21. Give the names of the following compounds



22. Explain why burning magnesium continue to burn in a gas jar full of sulphure (iv) oxide while humming splint would be extinguished. (3mks)

23. When hydrogen sulphide gas was bubbled into aqueous solution of iron (iii) chloride a yellow precipitate was formed.

a. State another observation that was made. (1mk)

b. Write an equation for the reaction that took place. (1mk)

c. What type of reaction was undergone by hydrogen sulphide gas in this reaction? (1mk)

24. A. What is allotropy (1mk)

B. Name two allotropes of carbon. (2mk)

25. Ammonium sulphate is a fertilizer produced by passing ammonia gas into concentrated sulphuric (VI) acid. Calculate the mass in kg of sulphuric (VI) acid required to produce 25kg of the fertilizer. (S=32, O=16, N=14, H=1) (3mks)

26. The reaction between hot concentrated Sodium hydroxide and chlorine gas produces sodium chloride (v), sodium chlorate and water.

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

b. Give one use of sodium chlorate (v). (1mk)

27. Explain why a solution of hydrogen chloride gas in methylbenzene does not conduct electricity but solution of a gas in water conduct electricity. (2mks)

28. Below is a sketch of a reaction profile. Study it and then answer the question that follows.

State and explain the type of reaction represented by the profile. (2mks)

Reactants

Reaction path

29. i) what are amphoteric oxides? (1mk)

ii) Give a chemical formula example of an amphoteric oxide. (1mk)

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

30. Calcium oxide can be used to dry ammonium gas.

l) Explain why Calcium oxide is not used to dry hydrogen chloride gas. (2mks)

m) Name one drying agent of hydrogen chloride. (1mk)

31. When an organic compound Y is reacted with aqueous sodium carbonate it produces carbon (iv) oxide. Y reacts with propanal to form a pleasant smelling compound whose formula is.

O



l. Name and draw the structure formula of compound Y. (2mks)

m. What is the name given to the group of compound to which Z belongs? (1mk)

32. Element X and Y have atomic numbers 20 and 8 respectively.

lx) Write the electron arrangement of their ions. (2mks)

lxi) Write the formula of the compound formed between X and Y. (1mk)

NAME.....CLASS_____ADM NO_____

SIGNATURE_____DATE_____

233/2 :CHEMISTRY

PAPER 2

TIME: 2HRS

MARCH / APRIL

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

INSTRUCTIONS TO CANDIDATE

Write your name and admission number in the spaces provided.

Sign and write the date of examination in the spaces provided

Answer all the questions in the spaces provided

All working must be shown where necessary

Electronic calculators and mathematical tables may be use.

FOR EXAMINERS USE ONLY

Questions	1	2	3	4	5	6	7	Total score
Max score	12	11	11	14	12	11	10	80
Candidates score								

This paper consists of 12 Printed pages.

m) Study the information given below and answer the questions that follow.

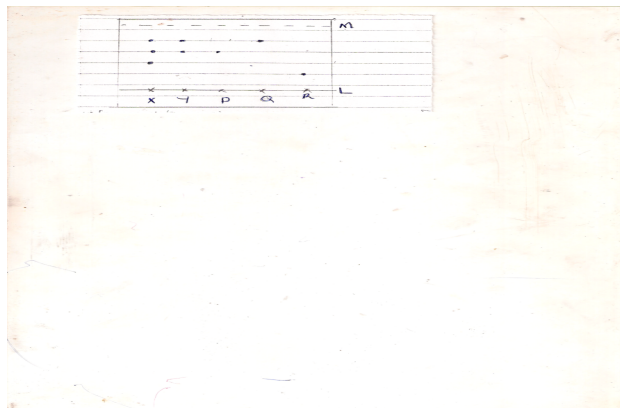
Element	Atomic radius(nm)	Ionic radius nm	Formula of oxide	Melting point(⁰ c)
A	0.364	0.421	A ₂ O	-119
D	0.830	0.711	D O ₂	837
E	0.592	0.485	E ₂ O ₃	1466
G	0.381	0.446	G ₂ O ₃	242
J	0.762	0.676	J O	1054

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

- n) Which elements are non-metals .Give a reason?(2mks)
- o) i) Write a formula of a compound formed when J combines with A(1mk)
- ii) What type of bond exist between J and D.(1mk)
- p) Explain why the melting point of the oxide of E is higher than that of the oxide of G.(2mks)
- q) i) Which two elements would react with each other most vigorously.Give a reason.(2mks)
- ii) Which element would be suitable for making utensils for boiling water.State two properties that make the elements suitable for the use.(2mks)
- r) Elements Q and R have electronic configuration 2.8.2 and 2.8.6. respectively.
- i) Explain why the ionic radius of R is expected to be greater than its atomic radius.(1mk)

ii) Write the equation for the reaction between Q and R. (1mk)

n) The chromatogram below is of and acid enzyme x and y and three simple sugar P, Q and R.



c) i) Name two simple sugars present in both x and y. (2mks)

ii) Name lines L and M. (2mks)

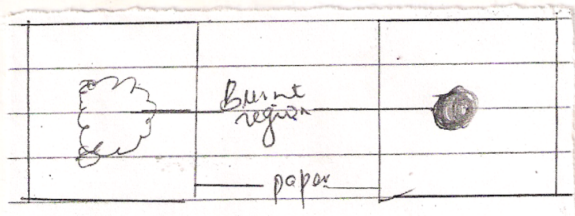
L-

M-

iii) What property is exhibited by simple sugar x. (1mk)

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

b. Two pieces of paper were lowered into different Bunsen burner flames and removed quickly. The results were as shown below.



Explain(2mks)

iii) Name two commercial uses of oxygen gas. (1mk)

o) Study the flow diagram and answer the questions below.

Few drops
of NaOH

Filter and
heat

Dilute hydrochloric acid

Pb(NO₃)

Excess
NaOH

vi) Identify

xxxiv) White ppt I

(1mk)

xxxv) Solution II

(1mk)

xxxvi) Residue II

(1mk)

vii) Write ionic equation for the reactions colourless solution (II) with Pb(NO₃) 1mk

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

viii) Write observations that would be made when ammonia solution is added drop wise till in excess to the colourless solution(II) 2mks

ix) Below are P^H values of some solutions

Solution	Z	Y	X	W
P ^H	6.5	3.5	2.2	7.2

ae) Which solution is likely to be

lxii) Acidic rain (1mk)

lxiii) Potassium hydroxide (1mk)

af) A basic substance V reacted with both solutions Y and X. What is the nature of V.(2mks)

ag) Name two substances that shows this characteristics in question (ii) above.(2mks)

p) A sample of crude oil was heated and its vapour passed over red-hot pumicestone. A mixture of gases was evolved which decolourised bromine in tetra chloromethane and burnt in air with a yellow flame.

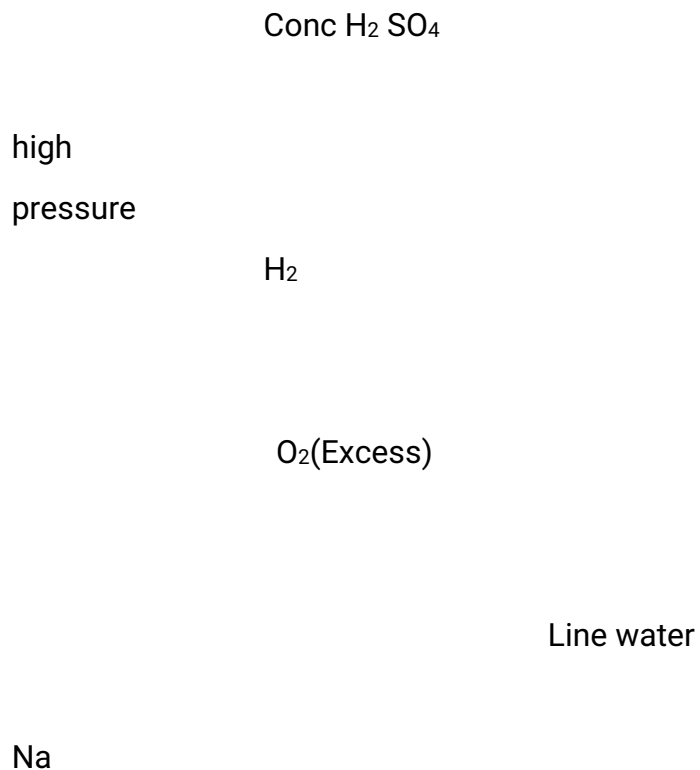
c) What process is taking place when the vapour from the crude oil passes over heated pumice.(1mk)

d) Name the most likely type of compound causing decolourisation of the bromine solution.(1mk)

e) Name two compounds formed when the gas mixture above burns in air.(1mk)

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

ii. Study the flow chart below and answer the questions that follow.



33. Identify substances (4mks)

A-

B-

F-

G-

34. Write down the equation for the formation of

i. Substance C

ii. E and F

iii. Gas G

35. Substance D was formed to have molecular mass of 42,000 .Determine the number of molecules present in the substances(H+1 ,C=12) 2mks

36. State

d. The condition necessary for the conversion of ethanol to substance A.(1mk)

e. The catalyst required in the conversion of A and B.(1mk)

q) The table below gives the solubility of hydrated copper(ii) sulphate in mol dm⁻³ at different temperatures.

Temperature(°)	Solubility mol dm ⁻³
20	8 x 10 ⁻²
40	12 x 10 ⁻²
60	16 x 10 ⁻²
80	22 x 10 ⁻²
100	30 x 10 ⁻²

e. *On the grid provided plot a graph of solubility of copper(II) sulphate (vertical axis) against temperature.(3mks*

f. From the graph ,determinee the mass of copper(II) sulphate deposited when the solution is cooled from 70⁰c to 40⁰.(Molar mass of hydrated copper(ii) sulphate = 250g)

- r) The flow chart below shows some of the processes involved in large scale production of sulphur(vi) acid .

Use it to answer the questions that follow.

Sulphur(iv)oxide

oxygen

sulphur (vi) oxide

Oleum

Water

- a. Name the process

- b. i) Name substance A.(1mk)

ii) Write an equation for the process that takes place in the absorption tower.(1mk)

- c. Vanadium (v) oxide is commonly used catalyst in the process.

C. Name another catalyst which can be used for this process.(1mk)

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

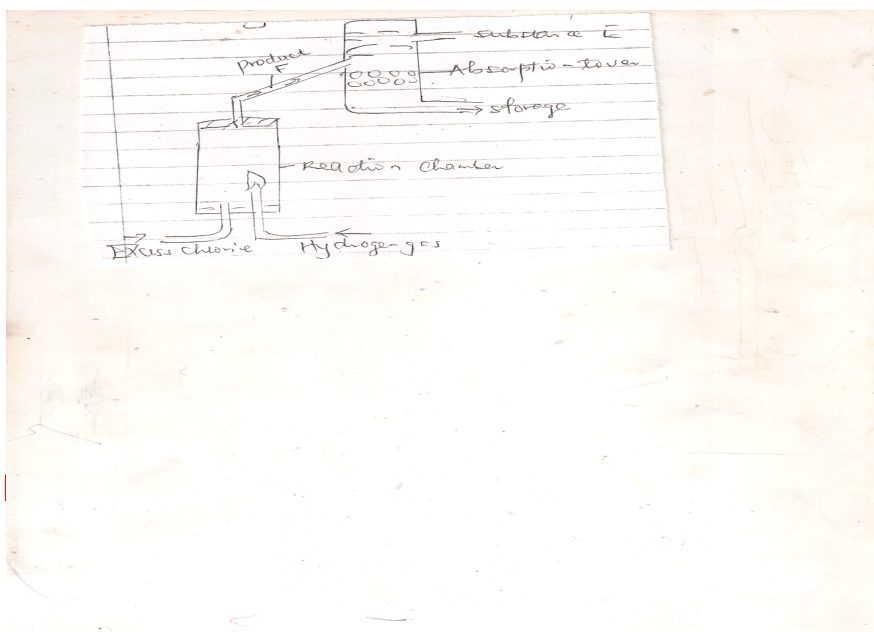
D. Give two why reasons vanadium (v) oxide is commonly used catalyst.(2mks)

d. State and explain the observations made when concentrated sulphuric (vi) acid is added to crystals copper(ii) sulphate in a beaker(2mks)

e. The reaction of concentrated sulphuric (vi) acid with sodium chloride produces hydrogen chloride gas.State the property of concentrated sulphuric (vi) acid illustrated in the reaction.(1mk)

f. Name two uses of sulphuric (vii) acid.2mks

s) The above diagram shows a set up that can be used for industrial manufacture of hydrochloric acid.Study it and answer the questions that follow.



3) Name

j) Produce F

k) Substance E

4) Explain are application of hydrochloric acid in textile industry.(1mk)

5) Hydrochloric acid was added to iron powder in a test tube and shaken thoroughly to mix to 1cm^3 of the resulting solution ,six drops of aqueous solution of ammonia were added .

i. State the observation made on adding ammonia solution.(

ii. Explain the observation stated above and write an ionic equation for the reaction.(2mks)

iii. Concentrated hydrochloric is 35% pure with density 1.18g/cm^3 . Calculate its concentration in moles per litre..(3mks)

NAME INDEX NO.

DATE CLASS

TERM 1

KENYA CERTIFICATE OF SECONDARY EDUCATION

CHEMISTRY PAPER 3

(PRACTICAL)

2 ¼ HRS

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 hrs 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 where necessary.

FOR EXAMINER'S USE ONLY.

QUESTIONS	MAXIMUM SCORE	CANDIDATE'S SCORE
1	13	
2	13	
3	14	
TOTAL SCORE	40	

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

You are provided with

- t) Anhydrous sodium carbonate solid x.
- u) Distilled water.
- v) 0.2m Hydrochloric acid solution A.

You are required to determine molar heat of solution of solid x.

PROCEDURE I

- n. Place 50.0ml of water in 250ml plastic beaker.
- o. Note the temperature of the water and record it in the table I below.
- p. Add all the solid X provided to the water in the beaker, stir gently with the thermometer and record the final temperature of the solution in the table I below. Keep the resulting solution for procedure 2.

TABLE I

Final temperature ($^{\circ}\text{C}$)	
Initial temperature ($^{\circ}\text{C}$)	
Change in temperature ($^{\circ}\text{C}$)	

(2 mks)

- (a) What is the enthalpy change for the reaction? (Assume the density of solution is 1g/cm^3 , and specific heat capacity is $4.2\text{ Jg}^{-1}\text{ K}^{-1}$). (2 mks)

PROCEDURE II

Transfer the contents of the beaker into 250ml volumetric flask. Rinse both the beaker and the thermometer with distilled water and add this water into the solution in the volumetric flask. Add more water to make up to the mark. Label this solution as solution X. fill the burette with solution A. Using a pipette place 25.0ml of solution X into a conical flask. Add 3 drops of methyl orange indicator and titrate with solution A. record your readings in table II below. Repeat the titration two more times and complete the table.

TABLE II

Experiment			
Final burette reading (cm^3)			
Initial burette reading (cm^3)			
Volume of solution A used (cm^3)			

(3 mks)

- (b) Calculate average volume of solution A used. (1 mk)

- (c) the number of moles of solution A used. (1 mk)

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

(d) The number of moles of solution X that reacted with the number of moles of solution A in (c) above. (1 mk)

(e) The number of moles of solid X used in procedure I. (1 mk)

(f) Molar heat of solution of anhydrous sodium carbonate. (2 mks)

2. You are provided with:

- A solution of sodium hydroxide labeled B.
- A solution of sulphuric(vi)acid labeled C.

You are required to determine the concentration of the alkali using the following procedure.

PROCEDURE:

- Place 40cm^3 of sodium hydroxide solution into a 250 ml plastic beaker.
- Measure 60cm^3 of sulphuric (vi) acid solution.
- Determine the temperature of sodium hydroxide solution at half a minute intervals for two minutes and record it in the table below.
- At $2\frac{1}{2}$ minutes, place the 60cm^3 of solution C into the plastic beaker while stirring and resume taking the temperature in the 3rd minute.

(v) Complete the table below.

Time in minutes	0	$\frac{1}{2}$	1	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Temperature in $^{\circ}\text{C}$									

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

Time in minutes	4 ½	5	5 ½	6	6 ½	7
Temperature in °C						

(3 mks)

(a) Plot a graph of temperature against time. (3 mks)

(b) From the graph, determine the highest temperature change. (1 mk)

(c) Determine the heat evolved in this experiment (Density of solution = 1 g/cm³ specific heat capacity of solution = 4.2 Jg⁻¹ K⁻¹) (2 mks)

(d) Given that the molar heat of neutralization is 56KJ/mole, determine the number of moles of sodium hydroxide used in the neutralization reaction above. (2 mks)

(e) Determine the molarity of sodium hydroxide. (2 mks)

3. You are provided with solid K. carry out the following tests and write your observations and inferences in the spaces provided.

	TEST	OBSERVATION	INFERENCE
(a)	Place a spatula full of sample K in a clean dry test tube. Heat gently and then strongly.	(1 mk)	(1 mk)
(b)	Put the remaining solid K in a boiling tube. Add about 8cm ³ of distilled water. Shake well and divide the solution into 3 portions.		
(i)	To the first portion add 3 drops of sodium hydroxide solution and then excess.	(1 mk)	(1 mk)
(ii)	To the second portion add 3 drops of ammonia solution and then excess.	(1 mk)	(1 mk)
(iii)	To the third portion add 3 drops of Barium nitrate followed by 3 drops of nitric acid.	(1 mk)	(1 mk)

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

(c)	You are provided with solid P. carry out the tests below and record your observations and inferences.		
(i)	Place half spatula of solid P in a non-luminous flame of a Bunsen burner.	(1 mk)	(1 mk)
(ii)	Dissolve the remaining solid in water and divide into two portions		
(a)	Add 3 drops of universal indicator to the 1 st portion and determine the PH of the solution.	(1 mk)	(1 mk)
(b)	To the 2 nd portion add a little sodium hydrogen carbonate	(1 mk)	(1 mk)

233/3 CHEMISTRY PAPER 3 PRACTICAL

CONFIDENTIAL FOR FORM 4 TERM 1

In addition of the apparatus and fittings found in a chemistry laboratory, each candidate will require the following.

- q. About **100cm³** of **0.2m** Hydrochloric acid labeled solution **A**.
- r. Accurately weighed **2.4g** anhydrous sodium carbonated labeled solid **X**.
- s. About **80cm³** of **1M** sodium hydroxide solution labeled solution **B**.
- t. About **120cm³** of **0.7 M** sulphuric (vi) acid solution labeled solution **C**.
- u. **250 ml** volumetric flask.
- v. **100 ml** measuring cylinder
- w. Distilled water
- x. **250 ml** plastic beaker (empty)
- y. **0 – 110^oC** thermometer.
- z. One burette (**0 – 50ml**)
- aa. One **25.0 ml** pipette.
- ab. Two conical flasks (**250 ml**)
- ac. Methyl orange indicator
- ad. Retort stand
- ae. Pipette filler
- af. A white tile
- ag. **6** dry test tubes
- ah. **1** boiling tube
- ai. One filter funnel
- aj. **1** label
- ak. Metallic spatula
- al. **1.5 g** of solid **K**
- am. **1 g** of solid **P**
- an. About **0.5g** sodium hydrogen carbonate
- ao. Glass rod

Access to

- w) Means of heating
- x) **2M NaOH** with a dropper
- y) **2M Ammonia** solution with a dropper
- z) **2M nitric acid** with a dropper

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

- aa) **0.09M** Barium nitrate solution
- ab) Universal indicator with a dropper
- ac) Standard PH chart

NOTE:

lxiv) Solid **K** is a mixture of **ZnSO₄** and **(NH₄)₂ SO₄** in the ratio **1:1**.

lxv) Solid **P** is oxalic acid.

lxvi) Solution **A** is **0.2M** Hydrochloric acid prepared by dissolving **17.2cm³** of concentrated hydrochloric acid in **1** litre.

lxvii) Solution **B** is **1M** sodium hydroxide prepared by dissolving **40g** in **1** litre.

lxviii) Solution **C** is **0.7M** sulphuric (vi) acid prepared by dissolving **38.5** litres of the acid in a litre of solution.

313/1

C.R.E

PAPER 1

TIME 2 ½ HOURS

END OF TERM 1 EXAMINATION 2020

FORM 4

Kenya Certificate of Secondary Education

313/1

C.R.E

PAPER 1

2 ½ HOURS

INSTRUCTION TO CANDIDATES

*iv. Answer any **FIVE** questions only in this paper in the answer booklet provided.*

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

1. (a) Describe the second account of creation in Genesis 2:4b-25. (7 marks)
- (b) Outline **four** differences between the biblical view of sin and the African concept of evil. (8 marks)
- (c) Identify **five** ways in which Christians can avoid sin. (5 marks)
2. (a) Describe the making of the Sinai covenant. (8 marks)
- (b) State **seven** reasons why presidential oath-taking is an example of a modern covenant. (7 marks)
- (c) What do we learn from the breaking of the Sinai covenant. (5 marks)
3. (a) Outline **seven** duties of Samuel in Israel. (7 marks)
- (b) How did Prophet Elijah fight against corruption and injustice in Israel. (7 marks)
- (c) Why should Christians fight against the spread of devil worship today. (6 marks)
4. (a) Identify **six** methods used by the Old Testament prophets to pass on their messages. (6 marks)
- (b) What were the teachings of Amos on social justice and responsibility. (7 marks)
- (c) How is prophecy practiced in the church today. (7 marks)
5. (a) Identify **six** symbols used during the call of Jeremiah. (7 marks)
- (b) State ways through which King Josiah brought the people of Judah back to the covenant way of life. (8 marks)
- (c) What can Christians learn from the call of Jeremiah? (6 marks)
6. (a) Identify and explain elements of worship in traditional African society. (6 marks)
- (b) Outline **seven** roles of the priests in traditional African society. (7 marks)
- (c) Show how marriage in traditional African society has faced transition in the modern

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

society.

(7 marks)

NAME:INDEX NO:

SCHOOL: CANDIDATE'S SIGN.....

DATE:

313/2

CHRISTIAN RELIGIOUS EDUCATION

PAPER 2

2½ HRS

END OF TERM 1 EXAMINATION 2020

FORM 4

Kenya Certificate of Secondary Education (K.C.S.E)

- j) Answer any five (5) of the given questions in the material provided.

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

k) Each question carries equal (20) marks.

Question	1	2	3	4	5	6	TOTAL
Score							

This paper consist of 2 printed pages. Candidates should check the paper to ensure that all pages are printed as indicated and no questions are missing.

1. a) Outline the message of Zachariah in the Benedictus Lk 1:67-80. (7 marks)
b) State **six** teachings of Jesus about John the Baptist. (6 marks)
c) In what ways does the church win people to the kingdom of God? (7 marks)
2. a) Outline the teaching about Jesus from the cure of the paralytic Lk 5:17-24. (7 marks)
b) Give **six** incidents when Jesus changed the traditional Jewish attitude towards the poor and despised. (6 marks)
c) Give reasons why the poor may not accept the word of God. (7 marks)
3. a) Relate the healing of the blind man in Jericho Lk 18:35-43. (8 marks)
b) Give **six** reasons why some people did not recognise the authority of Jesus during his ministry. (6 marks)
c) Identify ways through which the church is helping the sick in the community. (6 marks)
4. a) Explain the New Testament teaching on the unity of believers. (8 marks)

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

- b) State the reaction of the people who were present during the Pentecost. (6 marks)
- c) In what ways can the gift of prophecy strengthen the church today. (6 marks)
5. a) Give reasons why employment of minors is rampant in Kenya. (6 marks)
- b) Identify the consequences of denial of rest to employees. (8 marks)
- c) State **six** measures the government is taking to narrow down the gap between the rich and the poor. (6 marks)
6. a) Explain the Christian understanding of the use of science and technology. (6 marks)
- b) Identify **seven** benefits of genetic engineering to man. (7 marks)
- c) Give reasons why Christians should participate in blood donation. (7 marks)

Name Index Number

Candidate's Signature

Date

ENGLISH
Paper 1
(Functional Skills)

2 hours

FORM 4

Instructions to candidates

- l) Write our name and index number in the spaces provided above.*
- m) Sign and write the date of examination in the spaces provided above.*
- n) Answer **all** the questions in this question paper.*
- o) All your answer must be written in the spaces provided in this paper.*
- p) Candidates should check the question paper to ascertain that all the pages*

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

are printed as indicated and that no questions are missing.

For Examiner's Use Only		
Question	Maximum Score	Candidate's Score
1	20	
2	10	
3	30	
Total Score		

FUNCTIONAL WRITING (20MKS)

g. You are the manager of Quick Safaris Transport Company. Of late you've realized that the workers, mainly drivers and conductors have lost discipline, and this has made the company incur a lot of loss.

lxix) Write an internal memo to them, warning them of dire consequences if they do not change their behaviour and attitude.

Some of the areas you wish to address are:

- xxxvii) Punctuality
- xxxviii) Foul language
- xxxix) Lack of courtesy
- xl) Policy bribery
- xli) Any other relevant area from your observation

(13 marks)

.....

.....

.....

.....

.....

.....

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....

h. Read the passage below and fill in each blank space with an appropriate word.

Poaching is increasing (1) _____ a menace, not just in Kenya, (2) _____ also in other parts of the continent, (3) _____ a grave danger to the survival of various animal species particularly the elephant. Whereas, there have been (4) _____ to raise awareness about the danger posed by the menace, not enough has been done to (5) _____ it out and punish offenders.

As it is, poaching is becoming a crisis, threatening species like elephants, which are hunted (6) _____ for their ivory, rhinos which are targeted because of their horns and other game like lions. The Kenya Wildlife Service has been doing well to combat (7) _____ but it appears that more is needed if the criminals (8) _____ to be stopped. If the killers have more sophisticated weaponry, then KWS must (9) _____ its game or call (10) _____ the military to assist.

Oral Skills (30 marks)

3 (a). Read the poem below and then answer the questions that follow.

Her lip suckle the nipples
Milk bubbles, foams and ripples
Little hands up in the air
Catch on the mother's hair
Sweet sensation rises in pressure

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

Tiny legs kick with pleasure
Sleep comes gently and strong
Sleep whispers softly and long.

(Emusara Ossie Enekase)

- x) Identify any two pairs of rhyming words in the poem. (1mk)

 - xi) Identify one major sound pattern in the poem. (1mk)

 - xii) Give two examples of the above sound pattern. (2mks)
 - xiii) How would you perform the last two lines of the poem? (3mks)
- b) Suppose you were asked to make a speech at a friend's graduation party. What would you do to capture the audience's attention? (5 mks)

lxxi) Challenger: Two Europeans peeping through the window.
Response : Mucus

ad) Classify the above genre. (1mk)

ae) Identify and illustrate the most outstanding stylistic device used in the above genre. (1mk)

af) Give two functions of the above genre. (2mks)

- i).....
- ii).....

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

lxxii) In the words below, underline the part that should be stressed.

- f. Suc.cess
- g. ad.vice
- h. Chal.lenge
- i. ob.serve

(4mk)

lxxiii) Give a word with a similar pronunciation

(4mks)

- s) Muscle
- t) Worn
- u) Come
- v) Which

lxxiv) The following is a conversation between a father and his daughter. Identify six shortcomings in the father's listening skills.

(6mks)

DAUGHTER: *(Shortly after having arrived home from school)* Good afternoon, Daddy.

FATHER: *(Sitting complacently in the sofa, reading a newspaper. Looking up.....)*
Good afternoon. *(Resumes reading)*.

DAUGHTER: *(Holding out her school report form)* Daddy, I'm excited. My classteacher said
I was the best improved. I was...

FATHER: Oh, you were? Me, I used to be number one. I was absolutely unbeatable.

DAUGHTER: Chemistry has been a particular headache *(now looking at the report form which she*

thought her father would wan see), but this time...

FATHER: *(Stretching his arms, looking preoccupied)*

Chemistry for me was particularly easy.

I never scored anything less than 90%.

DAUGHTER: Dad, I was going to tell you that this time...

FATHER: *(Absent-mindedly)* By the way, where is your mum?

DAUGHTER: Mum is in the garden pickng vegetables. But Dad, you are not listening to my story.
I was telling you about Chemistry.

FATHER: You mean you have a story about Chemistry? Chemistry is not about stories. It is

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

.....
.....
.....
.....

FORM FOUR ENGLISH
END TERM ONE
101/2
PAPER 2

QUESTION 1: COMPREHENSION.

(20MKS)

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

The question is at least as old as Socrates: If we know what the right thing to do is,

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

why do we not do it? It is an especially acute question when applied to global warming. The science showing that carbon dioxide emissions are already changing the planet's climate, and are likely to have severe effects (melting ice caps, sea-level rise, and species extinction), is compelling and now barely disputed. Almost 90% of Europeans say they recognize climate change as a major issue, and 75% identify fossil fuel emissions as a major cause.

And yet, as was widely discussed at a conference of environmentalists, geologists and writers in May 2006 in Ankelehe, Germany, public understanding has not translated into even the simplest of public actions. Less than 1% of Britons, for example, have switched their home electricity to renewable sources, even though it requires little more than a phone call to one's existing provider. Proportions on the continent are slightly higher, but there is clearly no rush to go green or – shudder – stop driving cars.

Why such a disconnect between information and action? Part of the problem is that environmental advocates emit mixed messages. In mid-May 2006, Britain's *Guardian* published a front-page story showing that five companies in Britain produce more CO₂ pollution in a year than all the country's motorists combined. That is a strong argument for targeting industries, but the average reader could hardly be blamed for thinking, "Why should I bother to cut down my driving?"

Similarly, not enough thought has been devoted to the best role for government. Climate change is too vast a problem for individuals to solve alone, and some big businesses have an incentive not to solve it. That leaves government to take the lead, which is tricky, because over-reliance on government can allow individuals to fob off their own responsibilities. What is worse, government power seems to tickle autocratic fantasies. In my experience, environmentalists spend far too much energy advocating hard-line government 'solutions' that do not stand a chance of being enacted. Sure, it might be good for the planet if governments banned the use of sports-utility vehicles or, for that matter, of all fossil fuels. Yet not only is it hard to sell outright prohibitions to voters, but the sad truth is that governments have a woeful record in even the mildest interventions. One of the most significant innovations in the last decade has been Europe's carbon-emission trading scheme: some 12 000 companies, responsible for more than half of the EU's emissions, have been assigned quotas. Companies with unused allowances can sell them; the higher the price, the greater the incentive for firms to cut their use of fossil fuels. The system seemed to work for about a year – but now it turns out that Europe's governments allocated far too many credits, which will likely hinder the program's effectiveness for years.

hand over to the next generation.

(Adapted from Times, June 5, 2006)

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

- j. According to the passage, what are the effects of global warming? (4 marks)
- k. What, according to the passage, is the main cause of global warming? (3 marks)
- l. How does Britain encourage people to use renewable electricity? (3 marks)
- m. Paraphrase the following sentence: That is a strong argument for targeting industries, but the average reader could hardly be blamed for thinking, 'Why should I bother to cut down my driving?' (4 marks)
- n. What message does the writer communicate in this passage? (2 marks)

o. Explain the meaning of the following words and expression as used in the passage.
(4 marks)

xlii) fob off

xliii) incentive

xliv) calamity

QUESTION 2: COMPREHENSION

25 MARKS

FAT PRINCE *steps forward and greets the FAMILY.*

FAT PRINCE: Happy Easter, Natella Abashwili! What a day! When it was raining last night, I thought to myself, gloomy holidays! But this morning the sky was gay. I love a gay sky; a simple heart, Natella Abashwili. And little Michael is a governor from head to foot! Tititi! (*He tickles the CHILD.*)

GOVERNOR'S WIFE: What do you think, Arsen, at last Georgi has decided to start building the east wing. All those wretched slums are to be torn down to make room for the garden.

FAT PRINCE: Good news after so much bad! 'What's the latest on the war, Brother Georgi? (*The GOVERNOR indicates a lack of interest.*) Strategical retreat, I hear. Well, minor reverses are to be expected. Sometimes things go well, sometimes not. Such is war. Doesn't mean a thing, does it?

GOVERNOR'S WIFE: He's coughing. Georgi, did you hear? (*She speaks sharply to the DOCTORS, two dignified men standing close to the little carriage.*) He's coughing!

FIRST DOCTOR (*to the SECOND*): May I remind you, Niko Mikadze, that I was against the lukewarm bath? (*To the GOVERNOR'S WIFE* :) There's been a little error over warming the bath water, Your Grace.

SECOND DOCTOR (*equally polite*): Mika Loladze, I'm afraid I can't agree with you. The temperature of the bath water was exactly what our great, beloved Mishiko Oboladze prescribed. More likely a slight draft during the night, Your Grace.

GOVERNOR'S WIFE: But do pay more attention to him. He looks feverish, Georgi.

FIRST DOCTOR (*bending over the CHILD*): No cause for alarm, Your Grace. The bath water will be warmer. It won't occur again.

SECOND DOCTOR (*with a venomous glance at the FIRST*): I won't forget that, my dear Mika Loladze. No cause for concern, Your Grace.

FAT PRINCE: Well, well, well! I always say: "A pain in my liver? Then the doctor gets fifty strokes on the soles of his feet." We live in a decadent age. In the old days one said: "Off with his head!" -

GOVERNOR'S WIFE: Let's go into church. Very likely it's the draft here.

The procession Of FAMILY and SERVANTS turns into the doorway. The FAT

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

PRINCE *follows, but the GOVERNOR is kept back by the ADJUTANT, a handsome young man. When the crowd of PETITIONERS has been driven off a young dust-stained RIDER, his arm in a sling, remains behind.*

ADJUTANT *(pointing at the RIDER, who steps forward,):* Won't you hear the messenger from the capital, Your Excellency? He arrived this morning. With confidential papers.

GOVERNOR: Not before Service, Shalva. But did you hear Brother Kazbeki wish me a happy Easter? Which is all very well, but I don't believe it did rain last night.

ADJUTANT *(nodding):* We must investigate.

GOVERNOR: Yes, at once. Tomorrow.

They pass through the doorway. The RIDER, who has waited in vain for an audience, turns sharply round and, muttering a curse, goes off Only one of the palace guards_SIMON SHASHAVA— remains at the door.

SINGER: The city is still.
Pigeons strut in the church square.
A soldier of the Palace Guard
Is joking with a kitchen maid
As she comes up from the river with a bundle.

QUESTIONS

v. What happens just before this excerpt? (3mks)

vi. Identify and illustrate the character traits of the following as brought out in this excerpt.

ap. Governor's wife (2mks)

aq. Fat Prince (2mks)

ar. Governor

(2mks)

vii. Identify and explain two major themes evident in this excerpt. (6mks)

viii. Identify one instance of irony in this excerpt and explain its effect. (3mks)

ix. Apart from irony. Identify and explain one other device in the excerpt. (3mks)

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

x. "It won't occur again." (add a question tag). (1mk)

xi. What happens immediately after this excerpt? (3mks)

QUESTION 3: LITERARY APPRECIATED.

(20MKS)

03. Read the poem below and then answer the questions that follow.

No coffin, no grave by fared Angira

He was buried without a coffin
without a grave
the scavengers performed the post-mortem
in the open mortuary
without sterilized knives
in front of the night club

stuttering rifles put up
the gun salute of the day
that was a state burial anyway
the car knelt
the red plate wept, wrapped itself in blood its

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

master's

the diary revealed to the sea
the rain anchored there at last
isn't our flag red, black and white?
so he wrapped himself well

who could signal yellow

when we had to leave politics to the experts
and brood on books
brood on hunger
and schoolgirls
grumble under the black pot
sleep under torn mosquito net
and let lice lick our intestines
the lord of the bar, money speaks madam
woman magnet, money speaks madam
we only cover the stinking darkness of the cave of our mouths
and ask our father who is in hell to judge him
the quick and the good.

well, his diary, submarine of the Third World
War
showed he wished
to be buried in a gold-laden coffin
like a VIP
under the jacaranda tree beside his palace
a shelter for his grave
and much beer for the funeral party

anyway one noisy pupil suggested we bring
tractors and plough the land.

*(From Poems from East Africa, D. Cook and D. Rubadiri (Eds.): East African
Educational Publishers)*

- a. Briefly explain what this poem is about.(3 marks)

ah) Explain the use of onomatopoeia in the poem.(2 marks)

ai) Identify and explain the tone of the poem.(4 marks)

aj) Comment on the central theme of the poem.(3 marks)

ak) Explain the meaning of the following lines:
lxxv) who could signal yellow(2 marks)

lxxvi) submarine of the Third World War

a) How else can people bring change in society without assassinating politicians?
(2mks)

am) Explain the meaning of the following word as used in the poem
i. Anchored (1mk)

ii. Brood (1mk)

QUESTION 4: GRAMMAR

(15 MARKS)

q) **Complete the following sentences by choosing the appropriate expressions to fill the gaps.** (3mks)

1. Although Nduati is a great friend of mine. I _____ him on a few important issues. (differ to, differ with)

2. As good citizens, we must all pay our taxes _____ the policy. (in accordance to, in accordance with)

3. She chose her career _____ (independent of, independent to)

r) **Rewrite the sentences below according to the instructions given after each.** (3mks)

i. My father would not allow us to attend night parties under any circumstances.

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

(Begin: Under no circumstances)

j. Strangers should not be allowed into the compound without the security officer's permission. (Begin: On no account.....)

k. The plane had just taken off when one of the passengers began to scream. (Begin: Scarcely)

s) **Rewrite the following sentences avoiding repetition.** (3mks)

xiv) Always be frank and open with your friends. When you are frank and open to your friends, you will win your friends trust and confidence.

xv) Some of the questions are difficult, so find the easier questions and do the easier questions first.

xvi) Help yourself to some oranges. These oranges are sweet but those oranges are sweeter.

t) Combine each of the following pairs of sentences into one sentence by making one of them a relative clause.

d) Naliaka joined our school this term. She is very good at grammar.

e) The elephant is a very big animal. It is also very strong.

f) The generator had been on the whole night. It broke down in the morning.

u) Add an appropriate question tag to each of the following statements. (3mks)

ag) They aren't serious.

ah) He bought a new house last month.

ai) They won't shut up.

aj) Let us go.

ak) He hasn't been here before.

a) You live in an apartment.

GEOGRAPHY PAPER 1

END OF TERM 1

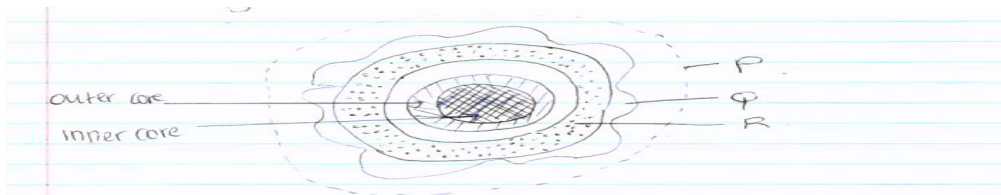
INSTRUCTIONS TO CANDIDATE

- (a) This paper has two sections A and B.
- (b) Answer all the questions in section A.
- (c) Answer questions 6 and any other from section B.
- (d) Answer must be written in the answer booklet provided.
- (e) This paper consists of 4 printed pages.
- (f) Candidates must check the question paper to certain that all pages are printed as indicated and no questions are missing

SECTION A

ANSWER ALL THE QUESTIONS IN THIS SECTION

as. The diagram below the structure of the earth.



- 1 a) Name the parts named P, Q and R. (3mks)
 b) Name the minerals that make up SIAL. (2mks)
- 2 a) State the plate tectonic theory. (2mks)
 b) List three types of boundaries associated with plate tectonic movement. (3mks)
- 3 a) What is a Stevenson screen? (2mks)
 b) State three essential features of a Stevenson screen. (3mks)
- 4 a) Differentiate between weathering and mass wasting. (2mks)
 b) State three effects of soil creep on the earth surface. (3mks)
- 5 a) The diagram below shows some features found in a Karst scenery.

(a) Name the parts marked P, Q and R. (3mks)

(b) Name the minerals that make up SIAL (2mks)

2. (a) State the plate tectonic theory (2mks)

(b) List THREE types of boundaries associated with plate tectonic movement. (3mks)

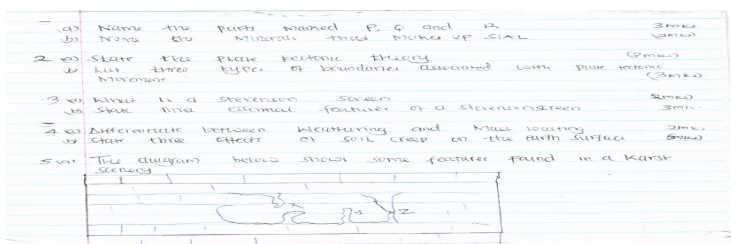
3(a) what is a Stevenson screen (2mks)

(b) State THREE essential features of a Stevenson screen (3mks)

4(a) Differentiate between weathering and mass wasting (2mks)

(b) State THREE effects of soil creep on the earth surface (3mks)

5(a) The diagram below shows some features found in Karst Scenery.



(a) Name the features marked X, Y and Z (3mks)

(b) State TWO ways in which lakes influence the natural environment (2mks)

SECTION B

ANSWER QUESTION 6 AND ANY OTHER TWO QUESTIONS FROM THIS SECTION

6. Study the map of MIGWANI (1:50,000) sheet 151/1 provided and answer the following questions

(a) (i) Give the latitudinal extent of the area covered by the map (2mks)

(ii) What is the magnetic variation of the map (1mk?)

(iii) Convert the ratio scale of the map into statements scale (2mks)

(b) Citing evidence from the map give THREE economic activities carried out in the area covered by the map. (6mks)

(c) Explain how relief has influenced the distribution of settlement in the area covered by the map (4mks)

(d) (i) Using a vertical scale of 1cm to represent 100metres, draw a cross-section along the line marked J-K (4mks)

(iii) On it mark and label the following

-Footpath (1mk)

-Road (1mk)

- Water pipeline (1mk)

-steep slope (1mk)

(iv) Calculate the vertical exaggeration of the cross-section (2mks)

7(a) (i) what is a river divide (1mk)

(ii) Describe THREE ways by which a river transport its load (6mks)

(b) Describe the characteristics of a river on its old stage (7mks)

(c) Describe each of the following drainage system and patterns

(i) Superimposed drainage system (3mks)

(ii) Centripetal drainage pattern (2mks)

(d) You have planned to carry out a field study of a river in its youthful stage.

(i) State TWO ways in which you would prepare for the study (2mks)

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

(iii) List TWO problems you are likely to experience during the study (2mks)

8(a) List FOUR processes through which coasts are eroded (4mks)

(b) Using well-labeled diagram, explain how each of the following features is formed

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

(i) A spit (4mks)

(ii) A blow hole (2mks)

(iii) A tomb (5mks)

(c) Some students carried out a field study on the coastal features found along the coast.

(i) List THREE features formed as a result of coastal emergence that they are likely to have studied (3mks)

(ii) State THREE methods that students may have used to record their data (3mks)

(iii) Describe TWO ways in which features resulting from coastal emergence are of significance to Kenya (2mks)

9(a) (i) Distinguish between Orogenic and Epeirogenic earth movement (2mks)

(ii) Describe how convectional currents cause earth movements (5mks)

(b) Explain THREE factors that determine the type of features resulting from earth movements (6mks)

(c) Describe the types of boundaries created as a result of earth movement (6mks)

(d) A form two class conducted a field study in an area that had undergone earth movement

(i) Give TWO examples of transform faults they would have observed (2mks)

(ii) Name TWO oceanic plates they would have observed (2mks)

(iii) Give the main reason why the interview method was not the appropriate method for collecting the data (2mks)

10 (a) (i) Apart from fold mountains name THREE other features resulting from folding (3mks)

(ii) Identify FOUR examples of Fold Mountains outside Africa (4mks)

(b) Explain TWO major factors that influence folding (4mks)

(c) Describe the formation of Fold Mountains using the contraction theory (6mks)

(d) Explain the effects of folding on the following

Agriculture (2mks)

tourism (2mks)

mining (2mks)

Transport (2mks)

NAME _____ Adm. No. _____

Student's signature _____

Date _____

School _____

312/2

GEOGRAPHY

PAPER 2

2 $\frac{3}{4}$ HOURS

END OF TERM ONE EXAMINATIONS

FORM FOUR

INSTRUCTIONS TO STUDENTS

- am) This paper has two sections: A and B.
- an) Answer all the questions in section A.
- ao) Answer question **6** and any other **two** questions from section B.
- ap) All answers must be written in the answer booklet provided.
- aq) This paper consists of 3 printed pages and 10 questions
- ar) Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no question is missing
- as) Answer the questions in English.

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

SECTION A.

ANSWER ALL QUESTIONS IN THIS SECTION.

- an) a) What is Forestry? (2mks)
b) Name five exotic species of trees planted in Kenya (5mks)
- ao) State four factors favouring the growth of forests on Mt. Kenya (4mks)
ap) Give four reasons why afforestation is being encouraged in Kenya (4mks)
aq) What is a polder? (2mks)
ar) Describe the stages involved in reclamation of a polder (8mks)

SECTION B

Answer question 6 and any other two questions in this section

- as) The table below shows the number of tourists who visited Kenya from 2010 to 2012. Use it to answer question 6(a)

COUNTRY	NUMBER OF TOURISTS
Canada	90,000
Germany	150,000
Italy	60,000
U.S.A	100,000
France	110,000
TOTAL	510,000

- at. i) Apart from pie charts, name two other statistical methods that can be used to represent the data in the table (2mks)
ii) Using a radius of 5cm, draw a pie chart to represent the data in the table above. Show your calculations (10mks)
- au. State the advantage of using the data in a pie chart (3mks)
av. State five steps taken by Kenyan government to promote wildlife resources (10mks)
- at) a) What do you understand by these terms?
xlv) Land reclamation (2mks)
xlvi) Land rehabilitation (2mks)
- b) State five methods used in land reclamation and rehabilitation in Kenya (5mks)
- c) i) Explain four factors that led to the establishment of Perkerra Irrigation Scheme (8mks)
ii) Apart from Perkerra, name two other large Irrigation schemes in Kenya (2mks)
- aw. You intend to carry out a field study on Irrigation farming in Perkerra Irrigation Scheme. Give six reasons why you need a pre-visit or reconnaissance for the study (6mks)
- au) a) Name the major cocoa growing areas in Ghana (3mks)

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

- b) Identify five conditions suitable for the cultivation of cocoa in Ghana (5mks)
 - c) Outline the stages in the processing of cocoa (7mks)
 - d) You intend to carry out a field study in a dairy farm near your school.
 - i) Identify two characteristics of a good hypothesis for the study (2mks)
 - ii) State four advantages of using the interview method to collect data during the study (4mks)
 - xlvi) Give four problems you are likely to encounter as you collect the data (4mks)
- av) a) Differentiate between fishing and fisheries (4mks)
- b) Use four methods used to preserve fish (4mks)
 - c) Identify four Traditional methods of catching fish (4mks)
 - d) Give four reasons why Norway is a great fishing nation (8mks)
 - e) Identify five measures the Government of Kenya is undertaking to encourage fish culture (5mks)
- aw) a) i) What is wildlife? (2mks)
- ii) Give five reasons why it is necessary to conserve wildlife in Kenya (5mks)
- b) Explain four ways in which Human activities are a threat to wildlife (8mks)
- c) You intend to carry out a field study of a National park in your local area.
- i) Which animals are you likely to see in the National park? (3mks)
 - ii) State three items you would include in the work schedule (3mks)
 - w) Give four advantages of studying wildlife through fieldwork (4mks)

NAME _____ ADM. NO. _____

Student's signature _____

Date ____/____/____

School _____

312/1

HISTORY PAPER 1

2 $\frac{3}{4}$ HOURS

END OF TERM ONE EXAMINATIONS

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

FORM FOUR

INSTRUCTIONS TO STUDENTS

- lxxvii) This paper has Three sections: A, B and C.
- lxxviii) Answer all the questions in section A.
- lxxix) Answer question **three** questions from section B and two others from section C.
- lxxx) All answers must be written in the answer booklet provided.
- lxxxi) Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no question is missing

SECTION A (25MARKS)

Answer all questions in this section

- at) Identify one branch in the study of History and Government of Kenya (1mk)
- au) What was the main economic activity of the Cushites in the pre-colonial period? (1mk)
- av) State two similarities in the political organization of the Ameru and Abagusii in Kenya during the 19th century (2mks)
- aw) Identify one way in which the Monsoon winds led to the development of trade between the Kenyan coast and the outside world (1mk)
- ax) State two functions of Fort Jesus during the Portuguese rule along the Kenyan coast (2mks)
- ay) Define the term dual citizenship (1mk)
- az) Give two categories of human rights (2mks)
- ba) Give two rules that govern the concept of National justice (2mks)
- bb) State two terms of Anglo-German-Agreement of 1886 (2mks)
- bc) Give one reason why the British colonial government encouraged white settlers to come to Kenya (1mk)
- bd) What was the main reason for the formation of Ukamba Members Association? (1mk)
- be) Why was the nomination of Eliud Mathu to the Legco important? (1mk)
- bf) Name two chambers of parliament under the new constitution (2mks)
- bg) Name one branch of the police service in Kenya (1mk)
- bh) Name one superior court in Kenya (1mk)
- bi) Identify one circumstance that would make a county governor to be removed from office (1mk)
- bj) State the main function of the National Security Council (1mk)

SECTION B

Answer any three questions from this section

- bk) a) Why did the Highland Nilotes migrate from their original homeland during the pre-colonial period? (5mks)
- b) Explain five results of the migration and settlement of the Highland Nilotes in Kenya (10mks)
- bl) a) Give three reasons for the coming of European Christian missionaries to Kenya in the 19th

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

century (3mks)

b) Explain six factors that hindered the work of early Christian missionaries in Kenya (12mks)

bm) a) What were the reasons for construction of the Kenya – Uganda railway? (3mks)

b) Explain 6 effects of the construction of Kenya – Uganda railway (12mks)

bn)a) Why were Africans opposed to the British colonial rule between 1920 – 1939? (5mks)

b) Explain five methods used by African Nationalists in Kenya in their struggle for independence (10mks)

SECTION C

Answer any two questions from this section

bo)a) State three factors that have undermined natural unity in Kenya since independence (5mks)

b) Explain five challenges facing the correctional services in Kenya today (10mks)

bp)a) Identify three groups of Kenya Defence Forces (KDF) (3mks)

b) Explain 6 functions of the Kenya Defence Forces (12mks)

bq)a) Name five survival rights of a child (5mks)

b) Describe five features of the Independence constitution (10mks)

312/2

HISTORY AND GOVERNMENT PAPER 2

2 1/2 HRS

TERM 1

FORM 4

INSTRUCTIONS CANDIDATES.

ax. This paper consists of three sections: A, B and C.

ay. Answer all the questions in section A, three questions from section B and two questions from section C.

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

- az. Answers to all the questions must be written in the answer booklet provided.

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

- bb. Candidates should answer the questions in English.

- lxxxii) State two disadvantages of oral traditions as a source of History and Government.(2mks)
- lxxxiii) State two circumstances that forced man to start growing crops.(2mks)
- lxxxiv) State the main mode of transport used during the trans – Saharan trade.(1mks)
- lxxxv) What was the contribution of Alexander Graham Bell in the of Science.(1mk)
- lxxxvi) Identify the form of writing that developed in Egypt as result of development of agriculture.(1mk)
- lxxxvii) State the main factor that led to emergence of Cairo as an Urban Centres (1mk)
- lxxxviii) Identify one factor that hinder industrialization in third world countries.(1mk)
- lxxxix) Give two reasons why indirect rule was unsuccessful in Southern Nigeria
.(2mks)(1x2)=2mks

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

- xc) State two strategic reasons for the scramble and partition of Africa.(2mks)
- xcii) Give two resolutions of the Berlin conference of 1884 to 1885(2mks)
- xciii) Give two reasons why the league of nations was formed in 1919(2mks)
- xciv) State one major event that led to the First World War.(1mk)
- xcv) Identify two structural defects of the organization of African Unity(OAU) that have undermined its activities since 1963(2mks)
- xcvi) Give two reasons why United States of America (U.S.A) did not join the First World War until 1917.(2mks)
- xcvii) State one use of steel(1mk)
- xcviii) What is the main role of the International Criminal Court?(1mk)
- xcviiii) Give the main principle that guides non-aligned movement.(1mk)

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

SECTION B(45 MKS)

Answer any three questions from this section in sheet provided.

- xcix) a) State five impacts of early agriculture in Mesopotamia.(5mks)
- b) Explain the effects of food shortages in third world countries(10mks)
- c) a) State five roles of Tuaregs in Trans-Saharan trade?(5mks)
- b) Explain five social effects of Trans-Saharan trade on the people of western Sudan?(2mks)
- ci) a) Give the factors that led to the rise of the Baganda Kingdom.(5mks)
- b) Describe the political organization of the Asante?(10mks) 2x5=10mks
- cii) a) State five factors which made the Lozi to collaborate with the British (5mks).
- b) Explain five reforms introduced by the German administration in Tanganyika after the MajiMaji rebellion.(10mks)

SECTION C(30MKS)

- ciii) a) State five reasons why the British used indirect rule to administer Northern Nigeria(5mks)
- b) Why did the French system of assimilation fail(10mks)
- civ) a) Give five functions of the security council of the United Nations Organization.(UNO) (5mks)
- b) Describe five benefits for being a member of the Commonwealth of Nations(10mks)
- cv) a) Give reasons for the formation of Non-Aligned Movement? (5mks)
- b) Explain five effects of the cold war?(10mks)

KITANDO CHA NNE

102/1
KISWAHILI
INSHA

MUDA 1 $\frac{3}{4}$.

MAAGIZO

Andika insha mbili. Swali la kwanza ni la LAZIMA

Chagua insha ya pili kutoka kwa maswali yaliyosalia.

Kila insha isipungue maneno 400.

Kila insha itatuzwa (alama 20.)

Wewe ni katibu wa vijana katika kijiji chako. Andika kumbukumbu za mkutano wenu uliojadili matatizo yanayowakumba vijana.

Muungano wa Afrika Mashariki una manufaa mengi. Fafanua.

Pilipili usioila yakuashiani?

..... hili lilikuwa jambo la ajabu ambalo sikuwa nimelishuhudia maishani mwangu.

JINANAMBARI:

SAHIHI: TAREHE:

102/2

UFAHAMU, UFUPISHO, SARUFI NA MATUMIZI YA LUGHA NA ISIMU JAMII

MUDA: SAA 2 $\frac{1}{2}$

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

HATI YA KUHITIMU ELIMU YA SEKONDARI KENYA

KIDATO CHA NNE

MAAGIZO

Andika jina na nambari yako kwenye nafasi ulizoachiwa hapo juu.

Tia sahihi yako kisha uandike tarehe ya mtihani.

Jibu maswali yote

Andika majibu yako katika nafasi zilizoachwa wazi.

Majibu yako yaandikwe kwa kugha ya Kiswahili

KWA MATUMIZI YA MTAHINI PEKEE

SWALI	ALAMA	TUZO
1	15	
2	15	
3	40	
4	10	
JUMLA	80	

xlvi) UFAHAMU: (alama 15)

Soma taarifa ifuatayo kisha ujibu maswali

Mageuzi yanayotarajiwa katika idara ya polisi nchini yameanza **kubisha hodi** baada ya kuzinduliwa kwa mtaala mpya wa kutoa mafunzo kwa maafisa wa polisi.

Mtaala huo uliozinduliwa rasmi na Waziri wa Usalama wa ndani Prof. George Saitoti Jumatatu iliyopita, unalenga kuimarisha utendakazi katika kikosi ambacho kwa muda mrefu kimelaumiwa kwa kukolewa ufisadi na uvunjaji wa haki za kimsingi.

Akihutubu katika hafla ya kuzindua mtaala huo iliyofanyika katika makao makuu ya shirika la ndege nchini mtaani Embakasi, Nairobi, Jumatatu iliyopita, Waziri Saitoti alisema, kuzinduliwa kwa mtaala huo kuliashiria mwanzo wa mageuzi makubwa yanayonuiwa kukipatia kikosi hicho sura mpya.

“Nyakati zimebadilika na tutawapa maafisa wa polisi mafunzo mapya. Tunataka kuunda kikosi imara chenye nidhamu na kinachoheshimu haki za kibindamu. Tunataka kuwa na kikosi kinachoakisi sura ya karne hii na kinachoafikia hadhi ya kimataifa,” Waziri Saitoti alisema.

Mtaala huo mpya wa kutoa mafunzo kwa maafisa wa polisi ni matunda ya jopo lililoteuliwa na Rais mwaka wa 2003 kutathmini mageuzi katika kikosi hicho. Uliandaliwa na taasisi ya elimu nchini ikishirikiana na wanafunzi kutoka chuo cha mafunzo ya polisi cha Kiganjo kwa usaidizi wa wataalamu wa masuala ya usalama kutoka Uswizi.

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

Chini ya mtaala huo, maafisa wa polisi watapokea mafunzo kwa kipindi cha kati ya miezi 15 na 21 kinyume cha awali ilipowachukua miezi 9 tu kukamilisha mafunzo.

Aidha, alama za kujiunga na kikosi hicho zimeongezwa. Katika mtaala huo, wanaonua kujiunga na idara ya polisi wa kawaida, kitengo cha G.S.U au polisi wa utawala ni lazima wawe wamepata alama ya C katika mtihani wa K.C.S.E na itawachukua miezi 15 kukamilisha mafunzo ikiwa ni pamoja na miezi 3 ya kujifahamisha na huduma ya kikosi.

Hii ni tofauti na awali ambapo alama ya kujiunga na kikosi cha polisi ilikuwa ni D katika mtihani wa KCSE. Mtaala mpya unasema ni sharti asilimia 10 ya makurutu wawe na digrii kutoka chuo kikuu na watapokea mafunzo kwa miezi na kuhitimu cheo cha Naibu wa Inspekta wa Polisi.

Kuanzia sasa, ni sharti usawa wa kijinsia uzingatiwe kikamilifu katika uajiri wa maafisa wa polisi. Wachanganuzi wa masuala ya usalama wanasema ukizingatiwa ipasavyo, mtaala huo utasaidia kuunda msingi dhabiti wa kikosi imara ambacho Wakenya wamekuwa wakihitaji.

Maswali

x) a) Ni dalili ipi inayoonyesha mwanzo wa mageuzi? (al.1)

b) Mtaala mpya unalenga nini? (al.4)

c) Eleza lawama zinazoelekezewa kikosi cha polisi (al.2)

d) Kwa mujibu wa taarifa eleza mageuzi matatu yaliyofanywa katika kikosi cha polisi (al.3)

e) Taja makundi mawili yaliyohusika katika kuandaa mtalaa mpya (al.2)

f) Eleza maana ya maneno haya kama yalivyotumika katika kifungu (al.3)

i) Kubisha hodi

ii) Kukolewa

iii) Makurutu

y) UFUPISHO (alama 15)

Soma makala haya kisha ujibu maswali yanayofuata

Mwezi jana serikali ya kitaifa na zile za kaunti ziliwasilisha makadirio yao ya bajeti, miezi miwili

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

kabla ya mwaka wa kifedha kuisha kama zinavyohitajika na katiba. Serikali hizo zilieleza jinsi zinavyonua kutumia mabilioni ya pesa kufadhili shughuli za mwaka ujao wa kifedha wa 2013/2014.

Serikali ya Rais Uhuru Kenyatta ilisema itatumia shilingi 1.6 trilioni kufadhili maendeleo na shughuli za sekta na idara zake tofauti. Makadirio haya yaliwasilishwa na kiongozi wa walio wengi bungeni, Bw. Aden Duale. Hata hivyo yalikosa kueleza jambo moja muhimu – jinsi kitita hicho kitakavyopatikana. Nasema hivi kwa sababu kuna habari ambazo zimenipa tumbojoto na wasiwasi mkubwa. Imebainika kuwa kufikia mwishoni mwa Machi mwaka huu, Kenya ilikuwa inadaiwa shilingi 1.8 trilioni na wafadhili wa humu nchini wa kigeni. Kama habari hizi hazijakushtua sitakulaumu kwa sababu huenda ukuwa hujui ukubwa wa kiasi cha fedha. Ili uweze kuelewa, nitazigawanya fedha hizi miongoni mwa Wakenya milioni 40 ili tujue kila mkenya anadaiwa kiasi gani. Kila Mkenya nchini, wakiwemo watoto na wazee wakongwe, anadaiwa shilingi 45,000! Hivyo basi ili deni hili liweze kulipwa, kila Mkenya atalazimika kutoa kiasi hicho cha fedha.

Ni deni ambalo Rais Uhuru Kenyatta alirithi kitoka kwa mtangulizi wake, Rais Mwai Kibaki ambaye utawala wake ulivunja rekodi ya kukopa. Wahenga hawakukosea dawa ya deni ni kulipa. Deni hili linapaswa kimkosesha usingizi Rais Kenyatta ambaye anapaswa kutafuta njia za kulilipa bila kuathiri uchumi, maendeleo na utekelezaji wa ahadi nyingi alizowapatia Wakenya wakati wa kampeni.

Hili halitafanyika kama Serikali itatenga fedha nyingi kuwalipa maafisa wake mishahara na marupurupu minono pamoja na kuwapa mabilioni ya pesa kununulia magari ya kifahari. Pengine Rais hajafahamiswa kuwa mwaka ujao wa kifedha serikali itajipata pabaya kwani Halmashauri ya Ukusanyaji Ushuru nchini (KRA), haitaweza kukusanya kiwango kilichowekwa na serikali baada ya shughuli ya ukusanyaji ushuru kutatizwa na hofu iliyotanda wakati wa uchaguzi mkuu.

KRA ilikuwa imekusanya shilingi 560 bilioni kufikia mwishoni mwa Machi ilhali ilikuwa imeagizwa kukusanya. Baada yake zimeomba serikali kuu ujaze pengo hilo au zipewe idhini ya kukopa.

Rais Kenyatta hana budi kuchukua hatua za dharura kuhakikisha kuwa wakenya hawataendelea kuandamwa na madeni maishani mwao.

(imenukuliwa kutoka Taifa Leo – Mei 9, 2013)

br) Kwa maneno yasiyozidi 70, fupishsa aya za kwanza nne. (al.9)

Nakala ya matayarisho

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

Nakala safi

bs) Kwa nini serikali haitaweza kulipa madeni yake. (maneno 40-50) (al.6)

Nakala ya matayarisho

Nakala safi

z) SARUFI NA MATUMIZI YA LUGHA (alama 40)

l. Tambua sauti.

Kipasuo ghuna cha kaaka laini (al.1)

m. Unda neno lenye muundo ufuatao wa sauti (al.1)

KKKKI

n. Eleza maana ya istilahi zifuatazo za sauti (al.4)

cvi) Kiimbo

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

cvii) Konsonanti mwambatano

o. Tunga sentensi moja ukitumia neno –zuri kama kiwakilishi, kivumishi na kielezi (al.3)

p. Eleza tofauti kati ya sentensi hizi (al.2)

Ningesoma kwa bidii ningepita mtihani.

Ningalisoma kwa bidii ningalipita mtihani

q. Tunga sentensi moja sahihi itakayotumia vitenzi vifuatavyo (al.3)

-wahi, -enda, -ona

r. Huku ukitumia mifano mwafaka, tofautisha silabi wazi na silabi funge (al.2)

s. Andika sentensi ifuatayo katika hali ya yakinishi (al.2)

Wanafunzi wasiposoma kwa bidii hawatapita mtihani

t. Bainisha vishazi katika sentensi ifuatayo (al.2)

Gaidi aliyelipua guruneti ile ametiwa mbaroni

u. Andika katika msembo wa taarifa: (al.2)

“Wakazi wa eneo hili ni wafugaji stadi wa sungura” Kakangu aliniambia.

v. Bainisha aina za virai katika sentensi ifuatayo (al.3)

Sheria hizo mpya zilitundikwa juu ya ukuta usiku wa manane.

w. Unda nomino kutokana na vitenzi vifuatavyo (al.2)

ax) Sali

ay) La

x. Changanua sentensi ifuatayo kwa njia ya vielezo matawi (al.4)

Jengo lijengwalo kwenye msingi thabiti hudumu sana.

y. Andika katika kauli ya kutendesha (al.2)

Amani alikunywa pombe mpaka akalewa sana

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

z. Andika kwa udogo (al.2)

Njia iendayo mbinguni ni nyembamba

aa. Neno changa lina maana ya kutoa kitu au fedha ili kukusanya kwa makusudi fulani. Eleza maana zingine mbili (al.2)

ab. Taja nahau zingine mbili sawa na "Enda ahera" (al.2)

ac. Andika kwa wingi (al.1)

Zigo la kuliwa halilemei

aa) ISIMU JAMII (alama 10)

Soma kifungu kifuatacho halafu ujibu maswali.

"Naona "Horsepower" mwenyewe ndiye atakayepiga, atakayecheza foul hiyo. Wachezaji wa....."

bc. Tambua sajili inayorejelewa (al.2)

bd. Tambua sifa zinazobainisha sajili rejelewa (al.8)

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

For more:

👉 ***Friendly high school & primary
Notes***

👉 ***Primary-secondary school
exams***

👉 ***2020 updated schemes of work
(primary-secondary)***

👉 ***All KASNEB
notes(CPA, CICTCIFA, CS, ATD, ICT
&IT)***

**WhatsApp/Call/sms
Mdm.Mariam @
0748842695**

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)

For marking schemes, contact/Whatsapp madam . Mariam(0746711892)