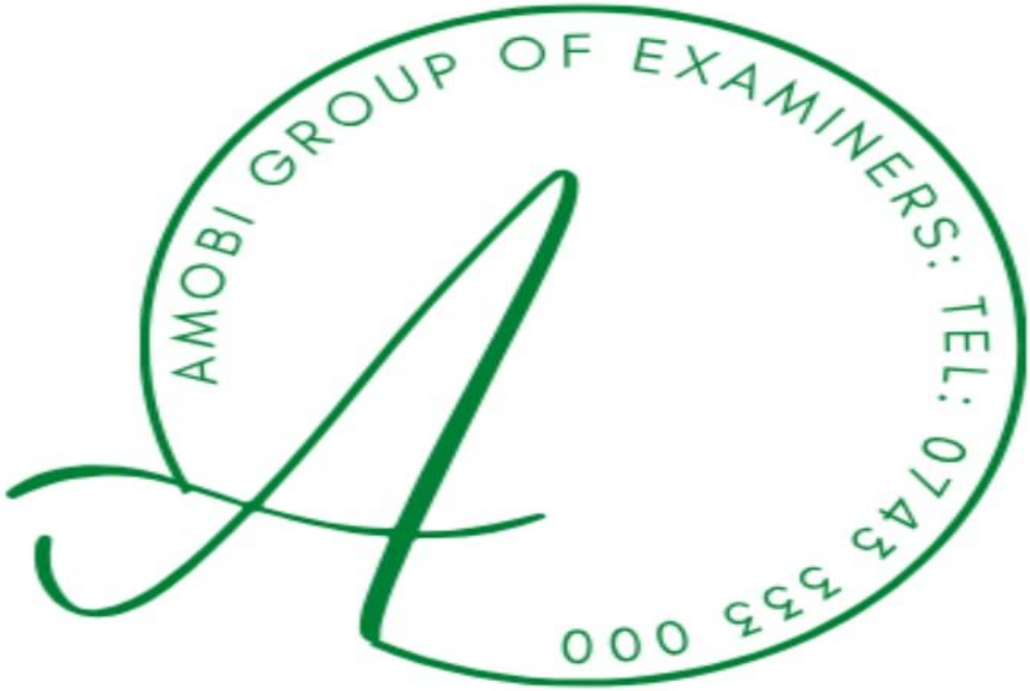
DILIGENT STUDENTS F3 END TERM 3 SERIES 1 EXAMS *(11 SUBJECTS TESTED)*



DILIGENT STUDENTS FORM 3 END TERM 3 SERIES 1 EXAMS

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ORDER OF THE 11 SUBJECTS TESTED

(ALPHABETICALLY ARRANGED)

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

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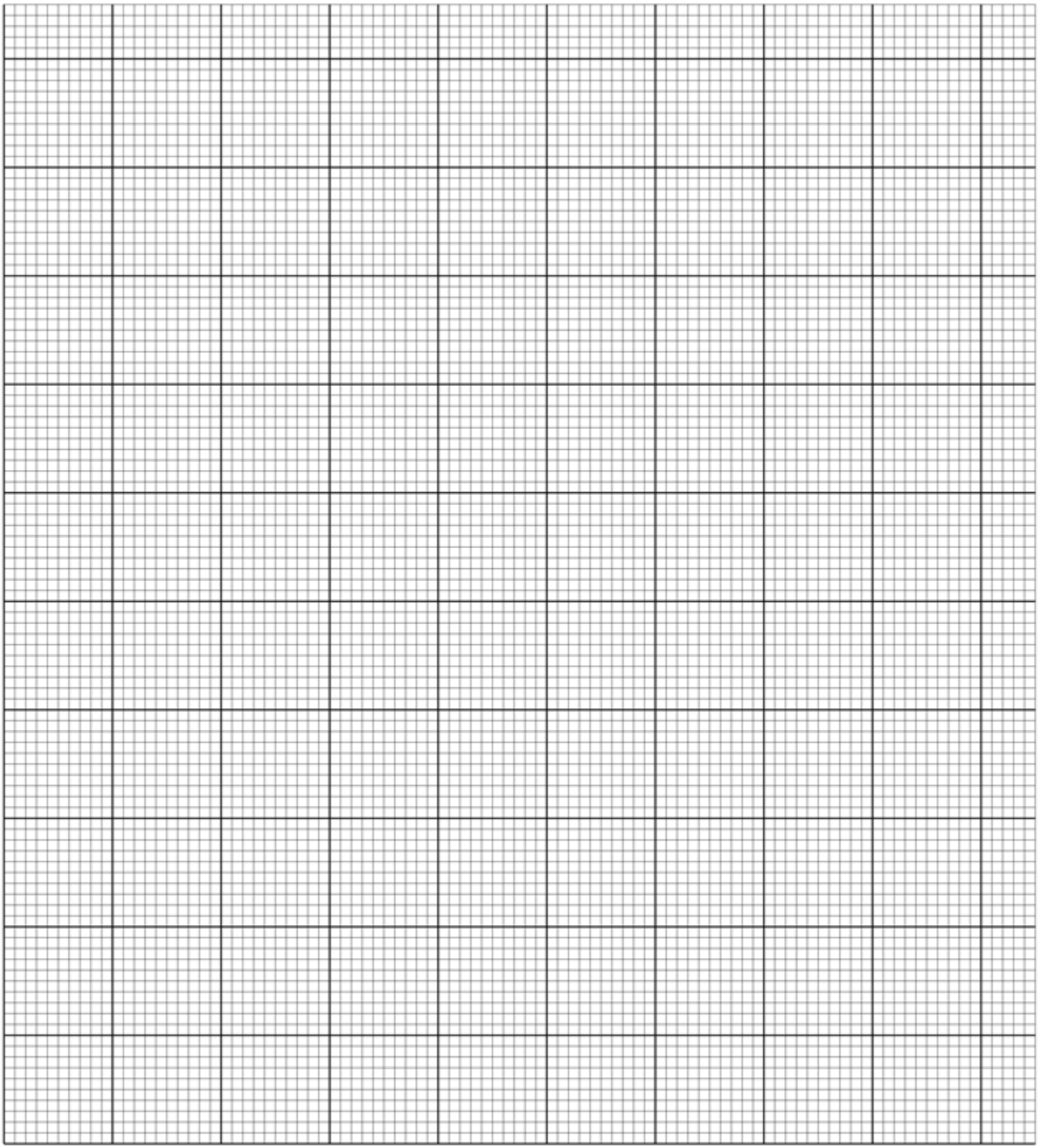
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DILIGENT STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

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

AGRICULTURE PAPER 1
END YEAR EXAM
FORM THREE
TIME: 2 HOURS

INSTRUCTIONS:
Answer ALL Questions in section A, B and any TWO Questions in section C.

SECTION A: (30 MARKS)

1. State four characteristics of large-scale farming system. (2mks)

2. Outline four factors that can make shifting cultivation practicable. (2mks)

3. State two effects of high temperature on crop production. (1mk)

4. State two effects of sub-soiling in land preparation. (1mk)

5. Differentiate between soil texture and soil structure. (2mks)

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6. State two reasons why green manure is not commonly used by many farmers. (1mk)

7. Enumerate four types of farm records kept by farmers. (2mks)

8. Outline two importance of a title deed in land tenure system. (1mk)

9. State reasons why it is difficult to control the following weeds. (4mks)
   i) Oxalis –

   ii) Couch grass –

   iii) Black jack –

   iv) Nut grass –

10. What is the meaning of the following terms as used in pest control?
   i) Economic injury level – (1mk)

   ii) Integrated pest management – (1mk)

11. State two varieties of beans growth in Kenya. (2mks)

12. List two advantages of a grass-legume pasture over pure stand grass pasture. (1mk)

13. Why is too much air undesirable in silage making? (1mk)

14. State four reasons for staking of tomatoes. (2mk)

15. Outline two methods of breaking seed dormancy. (1mk)

16. List two demerits of using seeds as planting materials. (1mk)

17. Give two importance of raising seedlings in polythene sleeves compared to direct establishment on the ground. (1mk)

18. (a) State three post harvesting practices carried out in crop production. (3mks)

(b) List two limitations of using a traditional granary in crop storage. (2mks)

SECTION B: (20MARKS)

Answer ALL Questions in this section.

19. Below are diagrams of common weeds found in the farm. Use them to answer questions that follow.

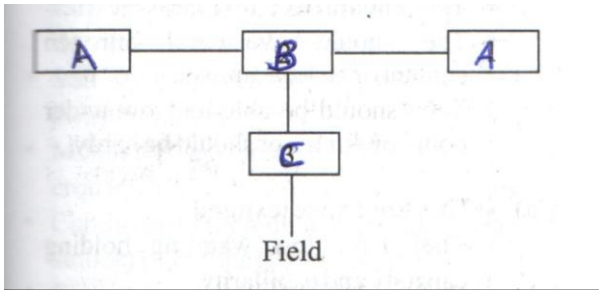


i) Identify weeds Q, R and S. (3mks)

ii) Mention one harmful effect of weed Q and R. (1mk)

iii) Give a reason why weed S is referred to as a parasitic weed. (1mk)

20. The diagram below is an illustration of turning a certain type of manure. Use it to answer questions that follow.



a) Name the type of manure that is turned using the above method. (1mk)

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b) By use of arrows, show how the manure is turned. (1mk)

c) What is the significance of adding the following during the preparation of compost manure?

i) Adding well rotten manure. (1mk)

ii) Adding garden soil. (1mk)

iii) Adding ash. (1mk)

21. Below are representations of certain pests that attack crops. Use them to answer questions that follow.



i) Identify pests P and Q. (2mks)

ii) State two effects of pest Q in crop production. (2mks)

iii) Highlight three methods of controlling pest P. (3mks)

iv) At what stage do pest P attack crops? (1mk)

SECTION C: (40 MARKS)

Answer any TWO Questions.

22. (a) Explain five effects of soil erosion. (10mks)
(b) Explain five methods used to control crop diseases. (10mks)

23. Describe production of maize under the following:
a) Ecological requirements. (3mks)
b) Seed bed preparation. (4mks)
c) Planting. (5mks)
d) Field management practices. (5mks)
e) Harvesting. (3mks)

24. (a) Describe ten (10) nursery management practices that are carried out after seed germination. (10mks)
(b) Explain five factors to be considered when designing a crop rotational programme. (10mks)

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DILIGENT STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

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

END YEAR EXAM
AGRICULTURE PAPER 2
FORM 3
TIME: 2 HOURS

INSTRUCTIONS:
Answer ALL Questions in section A, B and any TWO Questions in section C.

SECTION A: (30 MARKS)

1. List two biotic factors that affect livestock production in Kenya. (1mk)

2. Outline four reasons that enable camels to live in arid areas. (2mks)

3. State four reasons for dehorning in livestock. (2mks)

4. State four advantages of using a spray race over a plunge dip. (2mks)

5. State four reasons for seasoning timber. (2mks)

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6. State two types of bees. (2mks)

7. State four reasons for swarming of bees. (2mks)

8. Define the term caponization as used in livestock production. (1mk)

9. Outline four uses of water in animals on the farm. (2mks)

10. Differentiate between steaming up and creep feeding. (2mks)

11. State four routes through which pathogens enter the body of an animal. (2mks)

12. Differentiate between carrying capacity and overstocking. (2mks)

13. State four advantages of Zero grazing unit in livestock production. (2mks)

14. Name the equipment used alongside each of the following: (2mks)

i) Trocar –

ii) Bull ring –

iii) Elastrator –

iv) Syringe –

15. State four reasons that show that a sow is about to furrow. (2mks)

16. State two major systems of breeding in livestock production. (2mks)

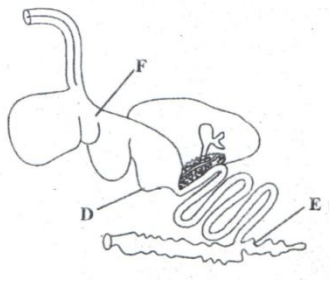
SECTION B: (20 MARKS)

Answer ALL questions in this section.

17. Mr. Gatimu asked his daughter to mix feeds for his cows. Mr. Gatimu's daughter decided to use feedstuffs to get 15% DCP. The contents were as shown below

- Fish meal 50% DCP.
- Cereal meal mixture 12% DCP

(a) How much of the two feedstuffs will Mr. Gatimu's daughter mix to get a 90kg bag? (4mks)



(b) The diagram below illustrates a type of a digestive system.

i)Name parts marked D and E (2mks)

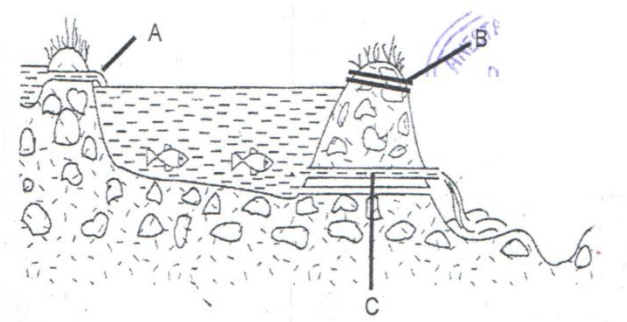
D……

E……

ii)State two functions of part F. (2mks)

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18. The diagram below shows a cross-section through a fish pond. Study it and answer questions that follow.



a) Name parts A, B and C. (1 ½ mks)

b) What is the function of part labeled B. (½ mk)

c) State four factors that should be considered when siting a fish pond.(2mks)

19. State four categories in which diseases in livestock are classified. (2mks)

20. Below is an illustration of a livestock parasite. Study it and answer questions that follow.



i) i)Name the parasite(½ mk)

ii) State three symptoms that may be observed in an animal that has been attacked by the above parasite. (1 ½ mks)

iii) State the intermediate host of the parasite. (½ mk)

iv) Give two control measures of the above parasite. (2mks)

21. State two methods of extracting honey from combs. (2mks)

SECTION C: (40 MARKS)

Answer any TWO questions from this section.

22. (a) Describe five factors to consider when selecting a breeding stock. (10mks)

(b) Describe five control measures of diseases in livestock and give an example of a disease controlled by the measure. (10mks)

23. Discuss mastitis disease under the following:-

a) Causal organism. (1mk)
b) Symptoms. (5mks)
c) Causes. (4mks)
d) Control measures. (5mks)
e) State five reasons for keeping livestock healthy. (5mks)

24. (a) Explain five reasons why fences are important to a farmer. (10mks)

(b) Explain five modern technology methods that have helped to improve the quality of livestock products in Kenya. (10mks)

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DILIGENT STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

NAME: ……..……

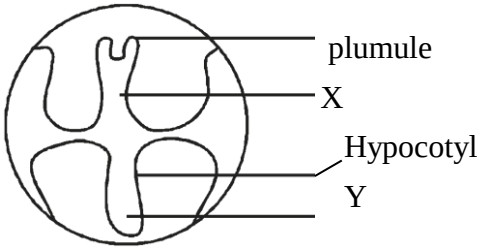
SHOOOL: ……..……

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

END OF YEAR EXAM (OCTOBER) TIME: 2 HOURS

FORM 3 BIOLOGY PAPER 1 (80 MKS)

1. The diagram below represents the internal structure of a bean seed.



a) Name the parts the seed embryo represented by letter X and Y. (2 marks)

X .....

Y .....

b) What type of germination would result if the hypocotyl elongates faster. (1 mark)

.....

c) What is the significance of the part labelled Y emerging first during germination. (1 mark)

.....

2.Name the cell organelles that are responsible for the formation of the following organelles.(2 marks)

i) Lysosomes…….

ii) Ribosomes…….

3. What is the meaning of the following terms?

i) Fermentation. (1 mk)……..…….

.....

ii) Oxygen debt.(1 mk)……..

.....

4.Name the hormone that control the following processes in human body.

i)Contraction of endometrium wall during parturition (1mk)

.....

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ii)Development of female secondary sexual characteristics (1mk)

……..

iii)Promote milk let-down from the mammary glands (1mk)

……..

5.Abuffalo in Lake Naivasha National park was infected with fleas. State the trophic level occupied by the

i)Buffalo (1mk)

……..

ii)Fleas (1mk)

……..

6.State the tissue responsible for :-

i)Primary growth (1mk) ……

ii)Secondary growth (1mk)

……..

7a)State three characteristics that are found in kingdom monera that are not found in other kingdoms (3mks)

……

……

……

b)Name the class to which a tick belongs (1mk)

……..

c)Giving classification of the mosquito by filling in table below (4mks)

Kingdom	
Phylum	
Class	
Order	

8)What is the difference in growth and development in animals as opposed to plants (1mk)

……

……

……

9 The table below shows the concentration of some ions in pond water and in the cell sap of an aquatic plant growing in the pond.

Ions	concentration in pond Water (parts per million)	concentration in cell sap (parts per million)
Sodium	50	30
Potassium	2	150
Calcium	1.5	1
Chloride	180	200

a) Name the process by which potassium ions could have been taken by this plant. (1mk)

……

b) State **one** condition necessary for the process named in (a) above to take place. (1mk)

……

10. a) A student was viewing a slide preparation of a cheek cell under high power of a microscope. The features of the cell were blurred. Name the part of the microscope that the student would use to obtain a sharper outline of the features. (1mk)

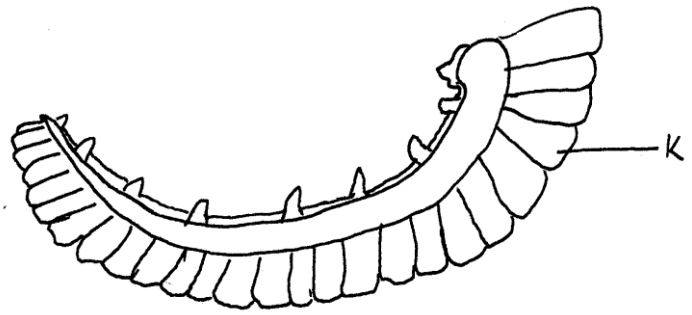
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b) Give the formula used to calculate magnification in light microscope. (1mk)

……

……

11. The diagram below represents an organ from a bony fish. Study the diagram and answer the questions that follow.



a) Name the organ. (1mk)

……

b) State **three** ways in which part K is adapted to its function. (3mks)

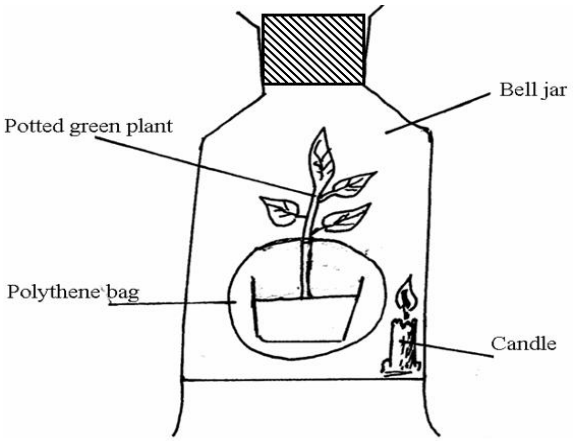
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12. A student investigating an aspect of photosynthesis set up an experiment as shown in the diagram below.



The bell jar was made air tight. After some time the candle went off. The student then placed the set-up in direct sunlight for 5 hours.

a) Give a reason why the burning candle was inclined. (1mk)

……

b) Suggest a reason why it was necessary to cover the pot with polythene bag. (1mk)

……

……

13. Explain how sunken stomata lower the rate of transpiration.(2mks)……

……

……

……

……

14. State **three** functions of mammalian blood other than transport of substances. (3mks)

……

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……

15. State **three** ways in which the ileum is structurally adapted to the absorption of digested food. (3mks)

……

……

……

8. State how mitochondria is adapted to its function. (2mks)

……

……

……

16. State how xylem is adapted to its function. (3mks)

……

……

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……

17. State functional differences between arteries and veins. (2mks)

Arteries	**Veins**

18. What is oxygen debt? (2mks)

……

……

……

……

19. What is the importance of sebaceous glands in the human skin? (2mks)

……

……

20. Name the hormones responsible for the regulation of blood sugar level. (2mks)

……

……

21. Define the following terms:(2mks)

i) Cephalothorax……

……

……

……

……

ii) Eukaryotes……

……

……

……

……

22. To estimate the population of grasshoppers in Kogelo village 400 grasshoppers were caught, which were marked and released. After 24 hours 200 grasshoppers were caught out, of which 80 had been marked.

a) Suggest the possible instrument that may have been used for capturing the grasshoppers.(1mk)

……

b) Estimate the population size of the grasshoppers in the village. (2mks)

23. Explain how the following features assist in adapting xerophytes to their habitat. (2mks)

i) Folded leaves

……

……

……

……

ii) Leaves modified to spines

……

……

……

……

24. Industrial wastes may contain metallic pollutants. State how such pollutants may indirectly reach and accumulate in the human body if the wastes were dumped into rivers. (3mks)

……

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25. Name the causative agent of cholera. (1mk)……

26. What is double fertilization in flowering plants.(2mks)……

……

27. a) During implantation in a mammal, the blastocyst differentiates into 3 layers, which are: (3mks)

i) ……

ii) ……

iii) ……

b) Which of the layers named in (a) above normally differentiates to form the placenta. (1mk)

……

28. State **four** ways of breaking dormancy in a seed. (4mks)

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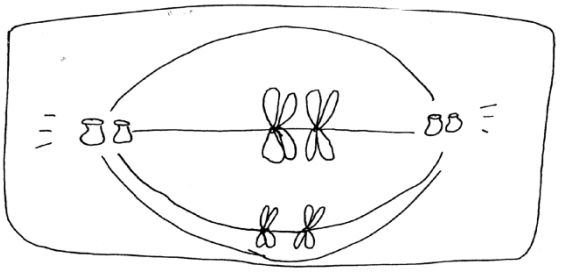
29. a) Name the hormone responsible for metamorphosis during larval stage of an insect. (1mk)

……

b) State the source of the hormone. (1mk)

……

30. Below is a stage of cell division.



a) Identify the stage. (1mk)

……

b) Give reasons for your answer in (a) above. (2mks)

……

……

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DILIGENT STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

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

231/2 BIOLOGY

FORM THREE

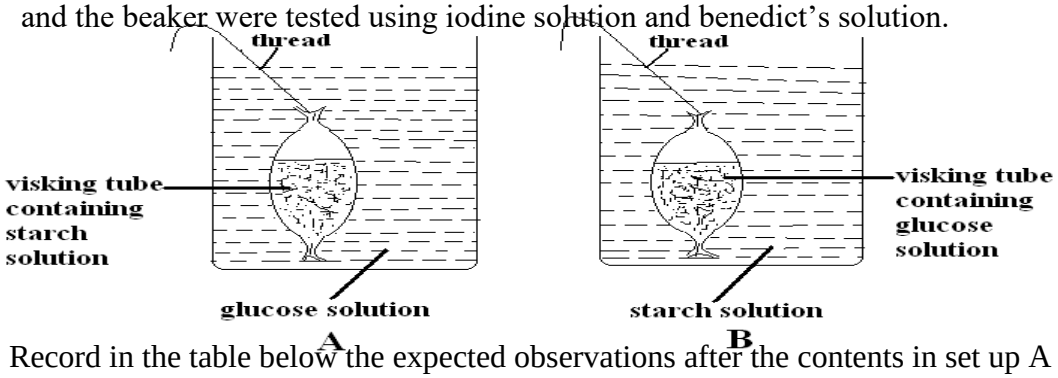
OCT/NOV END TERM EXAM

TIME: 2 HRS

INSTRUCTIONS TO CANDIDATES:

- Answer **ALL** the questions
- Answers should be written in the spaces provided

1. The following experiment was set up by a form one class. After an hour, the contents of the visking tubing and the beaker were tested using iodine solution and benedict's solution.

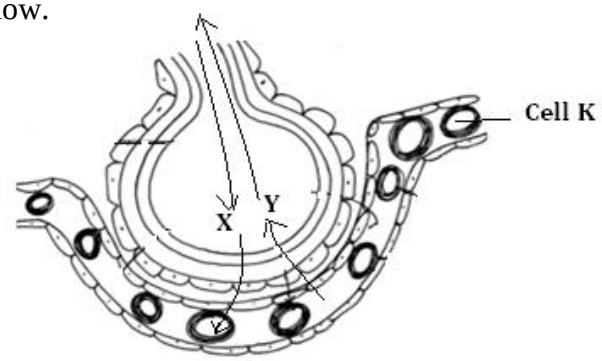


Record in the table below the expected observations after the contents in set up A and B were tested using iodine solution and benedict's solution. [8 marks]

	Visking tubing		Beaker	
Set up	**Iodine solution**	**Benedicts solution**	**Iodine solution**	**Benedict's solution**
A				

B				

2. The diagram below shows the association between the alveolus and a blood capillary. Study it and answer the questions that follow.



a) State the physiological process by which the gas labeled X enters the cell labeled K. (1mk)

……

b) Identify gases represented by letter X and Y

X ……(1mk)

Y ……(1mk)

c) Give **two** adaptations of cell K to its functions. (2mks)

……

……

d) State **three** characteristics of respiratory surfaces. (3mks)

……

……

……

……

3. a) Define the following terms as used in animal nutrition

i) Dentition (1mk)

……

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ii) Homodont and heterodont teeth (2mks)

……

……

……

……

b) State **two** functions of ileum (2mks)

……

……

……

(c) Explain the importance of the following in the process of photosynthesis; (2mks)

(i) Chlorophyll

……

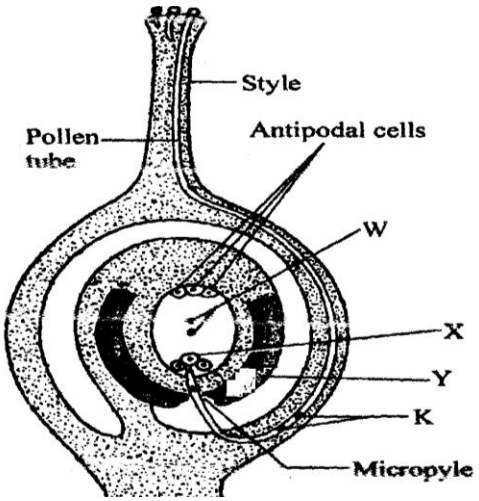
(ii) Light

……

(d) State **one** use of Potassium in (K^+) ion the body (1mk)

……

4. The diagram below shows a cross section through the female part of a flower.



a) Name the structures labelled W,X, and Y. (3mks)

X .....

Y .....

Z .....

b) State two functions of the pollen tube. (2mks)

.....

.....

c) What happens to antipodal cells after fertilization. (1mk)

.....

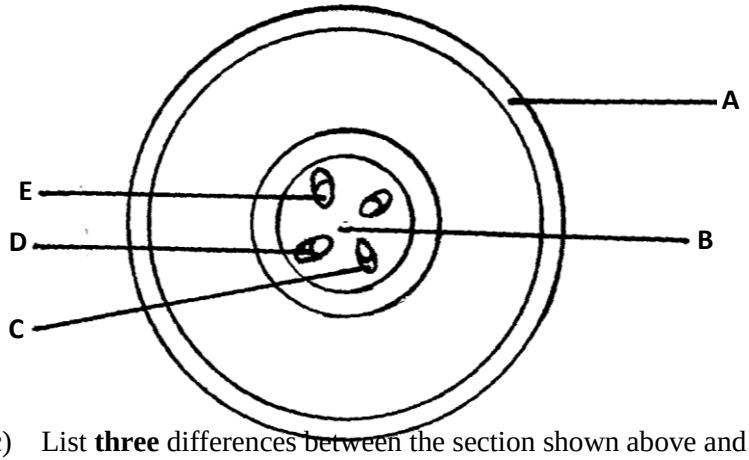
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d) Name the structure labelled K and state their role. (2mks)

.....

.....

5. The figure below represents a transverse section of a young stem.



a) Name the parts labelled **A** and **B** on the diagram. (2mks)

A.....

B.....

b) State the functions of the parts labelled **C, D** and **E**.(3mks)

C.....

D.....

E.....

c) List **three** differences between the section shown above and o plant.

.....

.....

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SECTION B(40 MARKS)

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

6. The glucose level in mg per $100cm^3$ of blood was determined in two person Y and Z. Both had stayed for six hours without taking food. They were fed on equal amount of glucose at the start of the experiment .The amount of glucose in their blood was determined at intervals .The results are shown in the table below.

Times in minutes	**Glucose level in blood in mg /100cm^3**	**Glucose level in blood in mg /100cm^3**
	Y	**Z**
0	85	78
20	105	110
30	105	110
45	130	170
60	100	195
80	93	190
100	90	140
120	90	130
140	88	120

a) On the grid provided, plot graphs of glucose levels in blood against time on the same axes. (7mks)

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b) What was the concentration of glucose in the blood of Y and Z at the 50th minute? (2mks)

Y .....

Z ....

c) Account for the level of glucose in person Y

i) During the first 45 minutes. (2mks)

.....

.....

.....

....

ii) After 45th minute to the end of the experiment. (4mks)

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d) Account for the decrease in glucose level person Z after 60 minutes. (2mks)

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e) Low blood sugar level in harmful to the body .Explain. (3mks)

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7.a) State the various causes of seed dormancy . (8mks)

b) Describe various factors that affect the process of seed germination. (12mks)

8. Discuss the adaptations of the mammalian skin to its functions. (20mks)

DILIGENT STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

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

1. You are provided with solution labeled K.
   a) Using the reagents provided test for the food substances found in solution K. Record the food you have tested for, procedure observation and conclusion in the table below. (9mks)

Food substance	Procedure	Observation	Conclusion

b) i) Name an enzyme that may be required to digest the food substance found in solution K in a human being. (1mk)

……

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ii) State the name of the part of alimentary canal in which the enzyme named in (b) (i) above is found. (1mk)

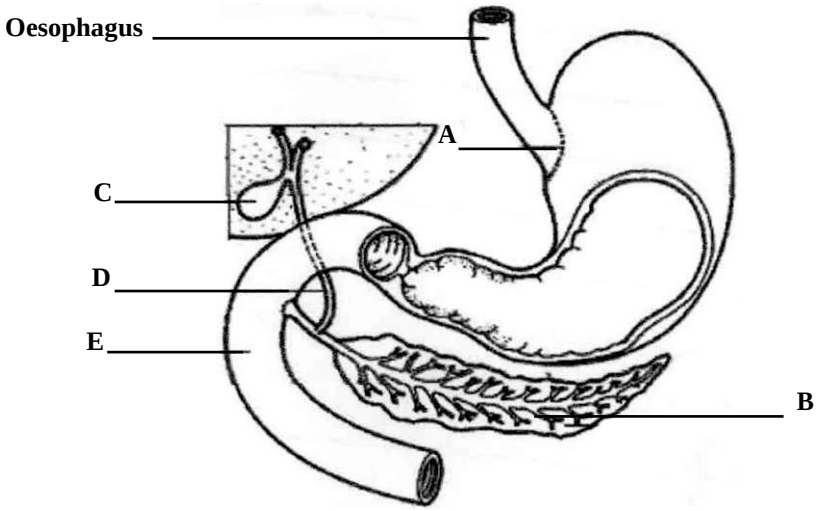
……

c) State how the part identified in (b) (ii) above is adapted to its function. (1mk)

……

……

2)The diagram below illustrates a part of the mammalian alimentary canal



i) Identify the organ labelled B. (1 mark)

.....

ii) Name two secretions of the organ labelled B. (2 marks)

.....

.....

iii) Name each of the parts labelled A and D. (2 marks)

.....

.....

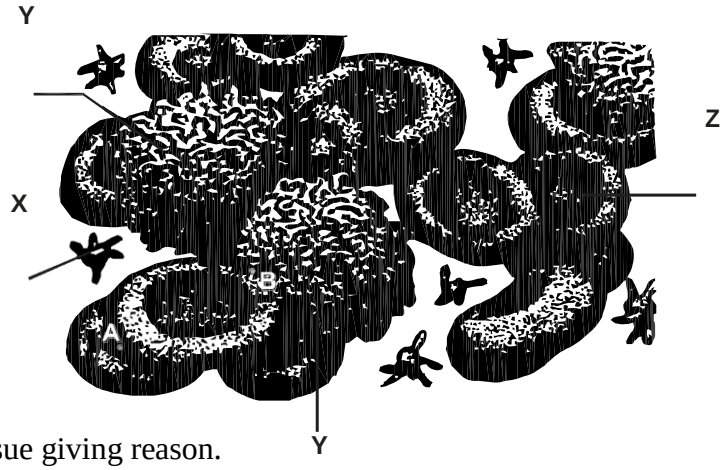
iv) State one function of the part labelled C. (1 mark)

.....

v) Explain why the part labelled E is curved. (1 mark)

.....

3. The diagram below represents an animal tissue.



a) Identify the name of the tissue giving reason. (2 marks)

Tissue.....

Reason.....

b) Identify the structures labeled X and Y. (2 marks)

.....

.....

c) State the functions of X and Y. (2 marks)

.....

.....

d) Using an observable feature on the diagram, state how structure Z is adapted to its function.(2 marks)

.....

.....

f) Suggest two changes that will occur to structure Z if an athlete from a low altitude area trains in high altitude area. (2 marks)

.....

.....

g) Name a mineral ion and vitamin required in the process brought about by structure labeled X.

Reason.....

(2mks)

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4.You are provided with photographs labelled **S** and **T.**



S



T

(a) With reason, identify the type of fruit each specimen belongs.

(i) Specimen **S**: (1 mark)

……..……

Reason: (1 mark) …….

……..……

(ii) Specimen **T**: (1 mark)

……

……..……

Reason: (1 mark)

…….

……..……

(b) State **three** differences between specimens **S** and **T**. (3 marks)

……

……

……

With reasons, state the mode of dispersal of each specimen:

(i) Specimen **S**: (1 mark)

……..……

……..……

Reason: (1 mark) …….

……..……

(ii) Specimen **T**: (1 mark) ……..

Reason: (1 mark) ……

……..……

DILIGENT STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

ADM NO: ……..…… SIGN……..……..… DATE: ……

BUSINESS STUDIES

FORM 3

END OF YEAR EXAM (OCTOBER)

TIME: 2 HOURS

Instructions: answer all questions in the spaces provided

1. Highlight **four** uses of National Income statistics. (4mrks)

(i) ……

(ii) ……

(iii) ……

(iv) ……

2. Outline **four** features of a general or property Insurance policy. (4mrks)

(i) ……

(ii) ……

(iii) ……

(iv) ……

3. Highlight **four** limitation that small scale retailer operators face. (4mrks)

(i) ……

(ii) ……

(iii) ……

(iv) ……

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4. Mention **four** roles played by intermediaries in the chain of distribution (4mks)

(a).....

(b).....

(c).....

(d).....

5. Outline **four** features of oligopoly (4mks)

(a).....

(b).....

(c).....

(d).....

6. Mention **four** pre requisites of transport (4mks)

(a).....

(b).....

(c).....

(d).....

7. Identify the documents that relates to the following statements. (4mks)

Statement	**Document**
a) Corrects an overcharge	
b) Shows amount expected from a number of transaction in a given period	
c) It's a booklet containing brief description of good sold	
d) Demands for payment after delivery of goods on credit	

8. On 1st January 2014, Dala's Traders had cash in hand Shs. 62,000 and cash at Bank shs. 233.000. Debtors and creditors were Kshs. 60,000 and Shs. 78,000, respectively. The following transactions took place during the month.

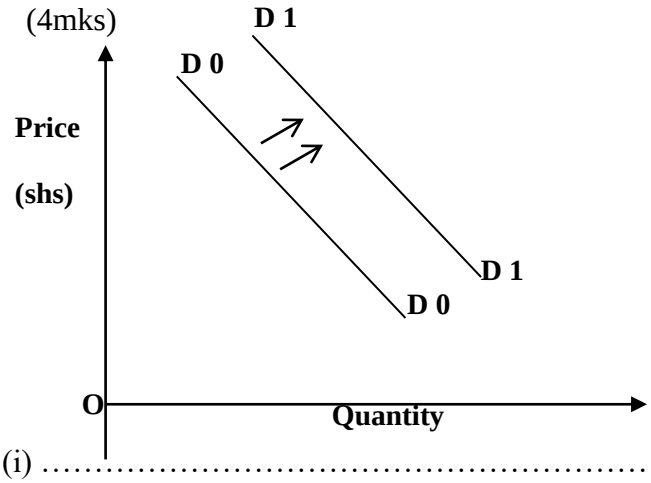
2014 Jan 1st : received a cheque for shs. 25,000 from a debtor

18th : Drew a cheque for shs. 47,000 in respective of creditor.

25th : deposited all cash into bank.

Required: Post the above transaction into respective ledger accounts and balance them off. (5mks)

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



(i) ……

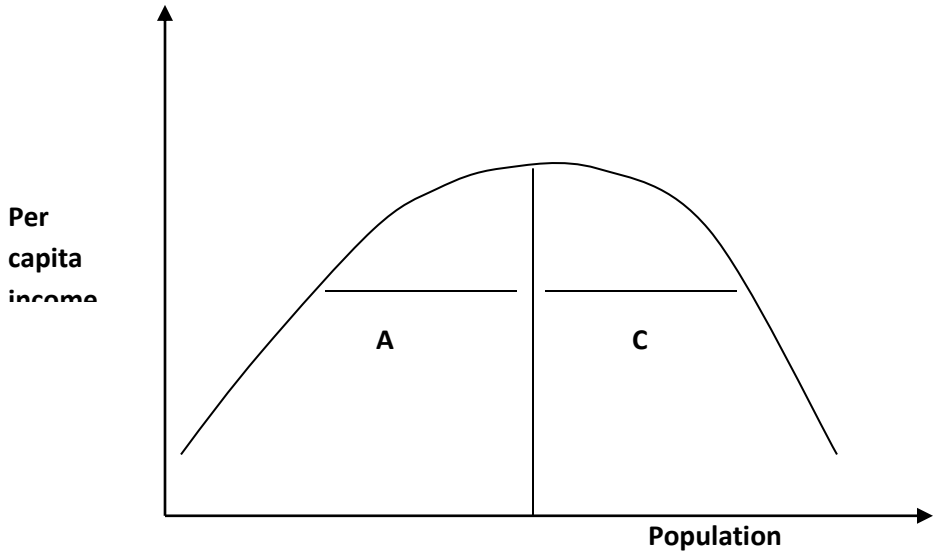
(ii) ……

(iii) ……

(iv) ……

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10. The diagram below shows population size.



State **four** problems that will be experienced by a country whose population size has reached stage **C** (4mks)

i)…….....

ii)…….....

iii)…….....

iv)…….....

11. Mwakio's electronic business had the following cash transactions' for the month of August 2008.

Aug 1: Balances from the previous Month: cash sh. 3,250 bank shs. 53,400; paid a supplier sh. 5,000 by Cheque.

Aug 2: Settled a debt of sh 6,000 owed to caro by cheque less 3% cash discount; bought stock worth sh. 6,000 in cash.

Aug. 8: Received by cheque the following payments from debtors after they had deducted 5 % cash discount. Mwai sh. 6175, Kyula shs 8075 ,Mulu sh. 9500

Aug. 15. Paid the following creaditors by cheque after deducting 4% cahs discount Wateri shs. 4,000, Keya shs. 3,000

Aug. 20 withdrew sh, 20,000 from the bank for use in the business

Aug. 27.: paid rent of shs. 3000 by cheque.

Aug. 29. Paid an electricity bill of shs. 4800 by cheque. (9 marks)

***Required*:** Prepare a three- column cash book for Mwakios electronic business for the month of August 2008 and balance it at the end of the month.

11. Highlight four reasons why a small scale business may succeed despite competition it faces from large firms. {4 marks}

i) ……

ii) ……

iii) ……

iv) ……

12. Identify four ways through which businesses give after sales services to their customers. {4 marks}

i) ……

ii) ……

iii) ……

iv) ……

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13. Outline any four sources of monopoly power for a firm. {4 marks}

i)
……

ii)
……

iii)
……

iv)
……

14. State four advantages of using credit cards as a means of payment. {4 marks}

i)
……

ii)
……

iii)
……

iv)
……

15. Highlight four reasons for which business should observe ethical practice. {4 marks}

i)
……

ii)
……

iii)
……

iv)
……

16. Outline four features of liners is sea transport. {4 marks}

i)
……

ii)
……

iii)
……

iv)
……

17. Outline four differences between a cheque and Bills of exchange. {4 marks}

i)
……

ii)
……

iii)
……

iv)
……

18. Highlight four factors that may prevent occupational mobility of labour (4marks)

i) .....

ii) .....

iii) .....

iv) .....

19.Give three causes of changes in capital of a business (3marks)

i) .....

ii) .....

iii) .....

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20. Complete the table below by indicating the relevant account to be debited and credited (4mks)

	Account to debit	Account to debit	Account to credit
a.	A debtor paid by cheque		
b.	Bought goods on credit		
c.	Draw cash from bank for office use		
d.	Paid cash to creditor		

21.Outline four types of income included in national income computation using national income method (4marks)

i) .....

ii) .....

iii) .....

iv).....

22.Kasyoki Traders had the following balances as at 15th January 2005

Capital	150,000
Cash at bank	68,000
Machinery	17,500
Premises	50,000
Creditors	19,000
Furniture	8,500
Motor van	20,000
Cash in hand	50,000

Requirement

Prepare Kasyoki's Trial Balance (4marks)

23.Outline four circumstances under which a manufacture may locate his firm near the market for the products.

(4marks)

i) .....

ii) .....

iii) .....

iv) .....

24. Among the documents required by the Registrar of companies is the Articles of Association. Highlight **four contents** of the Articles of Association

(4 mks)

a) _____

b) _____

c) _____

d) _____

25. The table below describes some terminologies used in business Studies. Identify the term given to each statement (4mks)

	Statement	Term
a)	Activities carried out with a view to making profit	
b)	Increasing the usefulness of a good or service	
c)	Movement of goods from producers to consumers	
d)	A person who uses a good or service	

DILIGENT STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

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

BUSINESS STUDIES

FORM THREE PAPER 2 END TERM 3

Answer any five questions

1. (a) Explain five principles of insurance. **(10mks)**
(b)Explain five ways through which containers may be in effective as a way of moving goods. **(10mks)**

2. (a) Explain five internal economies of scale that may be experienced by the firm. **(10mks)**
(b) Explain five factors to be considered when setting up an office layout for a business organization **(10mks)**

3. (a) Explain five causes of unemployment. **(10mks)**
b) Explain five benefits of preparing a business plan to a firm. **(10mks)**

4. (a) Explain five factors that influence choice of product promotion. **(10mks)**
b)Explain five roles played by commercial attaches in trade promotion. **(10mks)**

5.(a) Describe five differences between a movement along a demand curve and a shift of a demand curve. **(10mks)**

b) The following information relates to Maralal Traders for the month of May 2014.

May 1: Balance brought forward:
Cash Shs. 180,000
Bank Shs. 450,000 (Cr)
3: Received a cheque of 1,500,000 from Mpasha, a debtor
7: Cash sales Shs. 280,000
11: Jolloimat, a creditor of Shs.600, 000 was paid by cheque of sh 400,000 and the balance by cash.
14: Received commission in cash sh. 150,000
17: A debtor, Leteipa, paid his account of 185,000 by cheque less 2% cash discount.
19: Paid the following expenses by cheque:
Rent Shs. 75,000
Electricity Shs. 32,000
Water Shs. 25,000
21: Withdrew Shs. 100,000 from bank for personal use
24: Paid cash Shs 133,280 to Kinai after deducting a cash discount of 2%
25: Received a cheque of sh. 200,000 from Kiyapi, a debtor
28: Paid Salaries Shs. 120,000 by cheque.
31: Banked all cash except sh. 50,000.

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Required:

Record the above transactions in a three-column cash book. **(10mks)**

6. (a) Explain five reasons that may limit use of pipeline transport in a country. **(10mks)**

(b) Kavetsa had the following balances on 1st January 2010

	sh
Motor vehicle	210,000
Debtors	20,000
Cash	90,000
Stock	25,000
Creditors	40,000
Cash at Bank	50,000

During the month, the following transactions took place

2010 January 4: paid sh 12,000 to creditors by cheque

'' 13: purchased stock worth sh 18,000 on credit

'' 26 : deposited sh 6,000 into the business bank account from cash till

Record the above transactions in the relevant ledger accounts and balance them off. **(10mks)**

DILIGENT STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

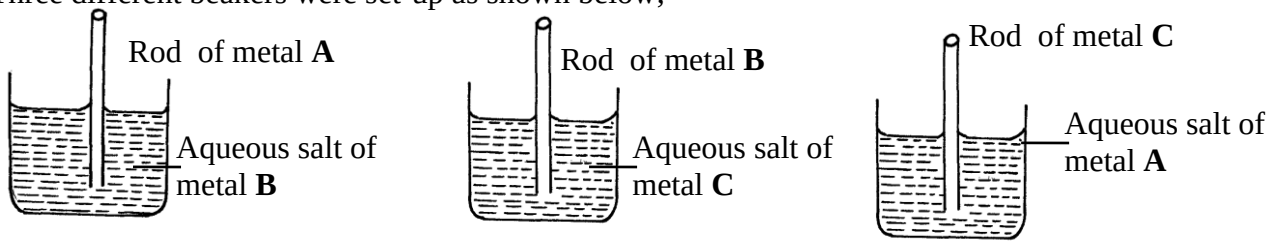
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END OF YEAR EXAM (OCTOBER) TIME: 2 HOURS
CHEMISTRY FORM THREE PAPER 1

1. In the space provided below, draw a sketch of a deflagrating spoon (1mk)

2. Powdered sodium carbonate is added to an aqueous solution of aluminum chloride. What observation would be made? Explain your answer (2mks)

3. Three different beakers were set-up as shown below;



Observation:- metal B displaced: ***metal C not displaced:*** ***Metal A displaced***

Arrange the three metals in decreasing order of reactivity starting with the most reactive metal (2mks)

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

5. Determine the formula of an oxide of tin (Sn) given that 3.02g of the oxide is reduced to 2.3g of tin by hydrogen gas (3mks)
(R.A.M of Sn = 119, O = 16)

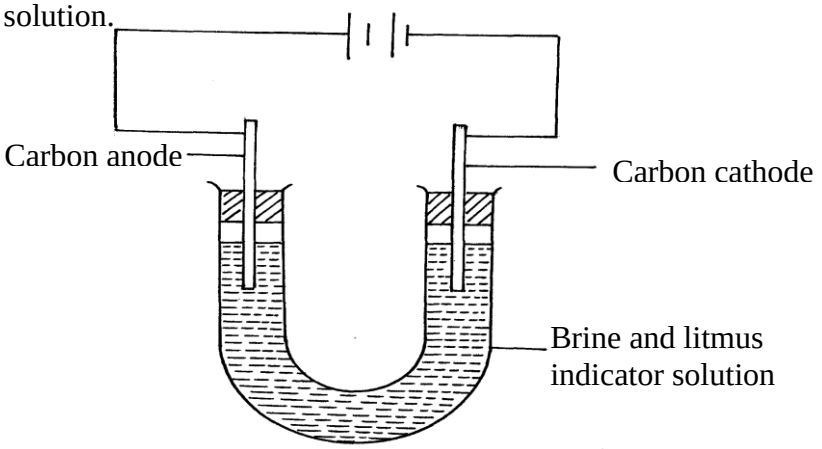
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6. A solution containing 2.84g of sodium sulphate was mixed with a solution containing 9.93g of lead (II) nitrate to form sodium nitrate according to the equation below:

$Pb(NO_3)_{2(aq)} + Na_2SO_{4(aq)} \longrightarrow PbSO_{4(s)} + 2NaNO_{3(aq)}$

Determine the maximum amount of sodium nitrate obtained from this reaction
(RFM of Na_2SO_4: 143, $Pb(NO_3)_2$ = 331 and $NaNO_3$ = 85) (3mks)

7. Below is a set-up used to investigate the effect of electric current on brine solution mixed with litmus indicator solution.



(a) A gas was formed at the anode. Write an ionic equation to show the formation of the gas (1mk)

(b) What was observed in the solution around the anode? (1mk)

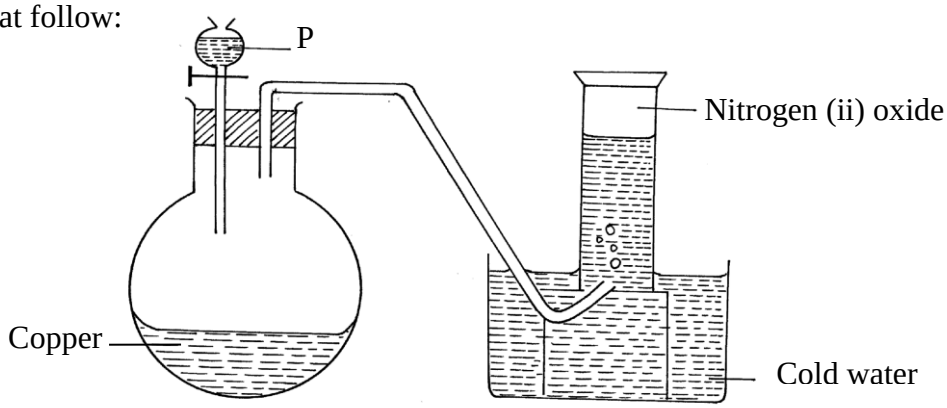
(c) Explain why the litmus indicator solution around the cathode turned to blue (1mk)

8. (a) Identify a reagent that can be used with soda lime (a mixture of solid sodium hydroxide and calcium oxide) to prepare ethane in the laboratory. (1mk)

(b) Explain the following observation; when little bromine is put in a boiling tube containing ethane gas and corked and kept in sunlight, the bromine water is decolourized (2mks)

9. $15cm^3$ of ethane were mixed with $450cm^3$ of oxygen and the mixture was sparked to complete reaction. If all volume were measured at a pressure of one atmosphere and a temperature of 120^oC. Calculate the volume of the products (2mks)

10. The set-up below shows the laboratory preparation of nitrogen (ii) oxide. Study it and answer questions that follow:

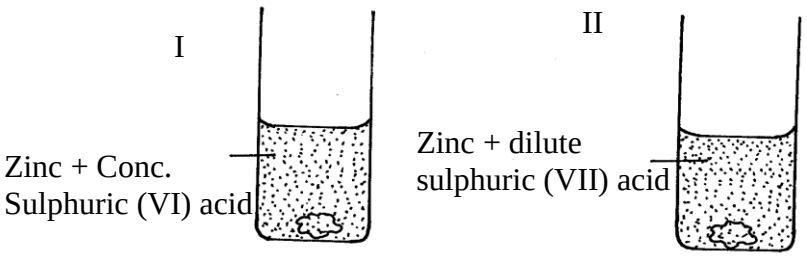


(a) Name appropriate substance, **P** (1mk)

(b) Write an equation between substance **P** and copper (1mk)

(c) Explain why burning phosphorous continue to burn in gas jar containing Nitrogen (ii) oxide (1mk)

11. Study the set-up below and answer the questions that follow



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(a) Which of the set-up above generates sulphur (IV) oxide gas? Explain (2mks)

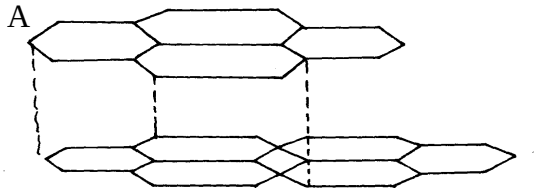
(b) State **one** use of sulphur (IV) oxide gas apart from being used in the manufacture of sulphuric (VI) acid (1mk)

12. A metal **X** (atomic number 12) burns in chlorine (atomic number 17) to produce a white solid.
(a) Write an equation between **X** and chlorine gas (1mk)

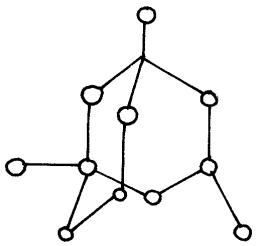
(b) Draw the diagram to show bonding in the compound formed between **X** and chlorine (use dot(**.**) and crosses (x) for electrons) (2mks)

13. The diagram below shows two allotropes of carbon

A



B



(i) Identify allotrope (2mks)

A

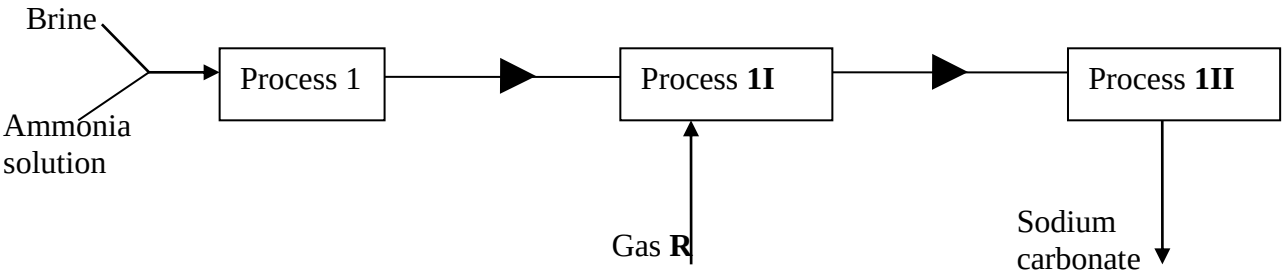
B

(ii) Give a reason why allotrope **A** is used as a lubricant (1mk)

(iii) State **one** use of allotrope **B** (1mk)

14. A gas occupies a volume of $400cm^3$ at 500k and 1 atmosphere pressure. What will be the temperature of the gas when the volume and pressure of the gas is $100cm^3$ and 0.5atm respectively (3mks)

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



(a) Identify gas **R**

(b) Write an equation for process **III** (1mk)

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

16. (a) Ethyne can be prepared by reacting calcium carbide with water. Write down an equation for the reaction that occurs (1mk)

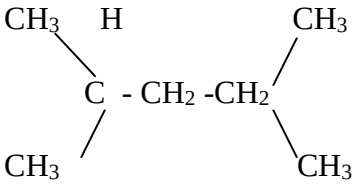
(b) State how to distinguish ethyne from ethane using bromine water (1mk)

(c) State **one** use of ethyne (1mk)

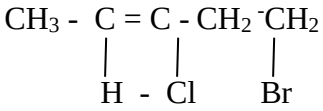
17. **X** grams of anhydrous sodium carbonate was dissolved in water to make 250cm^3 solution 25cm^3 of the solution was neutralized by 20cm^3 of 0.25M nitric acid. Determine the value of **X** (3mks)
(Na = 23.), C = 12.O, O = 16, H = 1, N = 14)

18. Give the IUPAC names of the following (2mks)

(a)



(b)



(b) Draw the molecular structures of the isomers of C_5H_{10} (2mks)

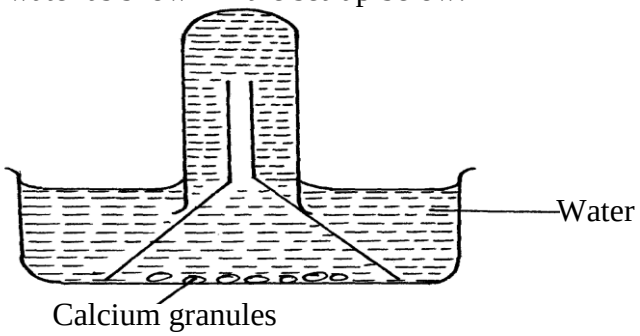
19. When ammonia gas is passed through copper (ii) sulphate solution, a blue precipitate is formed which dissolve to form a deep blue solution. Write ionic equation for the formation of:
(a) The blue precipitate (1mk)

(b) The deep blue solution (1mk)

20. State **two** reasons why non-luminous flame is preferred for heating substances in laboratory as compared to luminous flame (2mks)

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21. Calcium metal was put in water as shown in the set-up below:



(a) State **two** observations made in the above experiment (2mks)

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

22. The table below gives about several substances. Use it to answer the questions that follow:

Substance	Mp(°C)	Bp°C	Electrical	Conductivity in molten state	Solubility in water
A	614	3182	Poor	Good	Dissolve
B	29	685	Good	Good	Dissolves
C	1610	2230	Poor	Poor	Insoluble
D	37	344	Poor	Poor	Insoluble

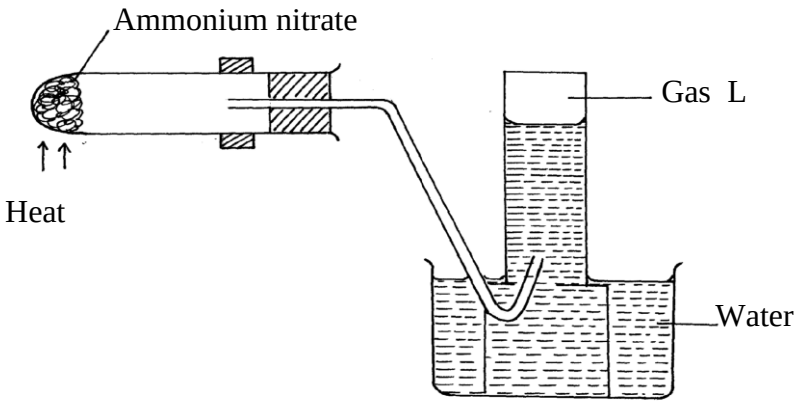
(a) Identify the substance: (2mks)

(i) With giant covalent structure

(ii) Likely to be magnesium chloride

(b) Give a reason why substance **B** conducts electricity in both solid and molten state (1mk)

23. Study the set-up and answer the questions that follow:



(a) Identify gas **L** …… (1mk)

(b) Write an equation for the reaction that occurs (1mk)

(c) What property of gas **L** makes it to be collected by the above method? (1mk)

(d) State and explain the precaution that must be taken before heating is stopped (2mks)

24. 0.24g of a divalent metal **X** dissolves in 50.00cm^3 of 0.25M Sulphuric (VI) acid. The resulting solution required 5.0cm^3 of 1.0M Sodium hydroxide solution to neutralize the excess acid. What is the relative atomic mass of **X**? (3mks)

25. State **two** reasons why most laboratory apparatus are made of glass (2mks)

26. State **two** methods of preventing rusting of metallic spatula (2mks)

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27. (a) Write the formula of the chemical used in the laboratory preparation of oxygen of oxygen gas (2mks)

(b) State **one** commercial use of oxygen gas (1mk)

28. (a) Name any ores of sulphur (1mk)

(b When Sulphur (IV) Oxide is bubbled into acidified potassium Manganate (VII) solution, the reaction takes place according to the following equation:

$$2MnO_{4\,(aq)}^{-} + 5SO_{3\,(aq)}^{2-} + 6H_{(aq)}^{+} \longrightarrow 2MnSO_{4(aq)} + 3SO_{4\,(aq)}^{2-} + 3H_2O_{(l)}$$

(i) State and explain the observation made in the experiment (2mks)

(ii) What role did sulphur (IV) oxide play in the reaction (1mk)

(c)State any **one** use of sulphur (1mk)

DILIGENT STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

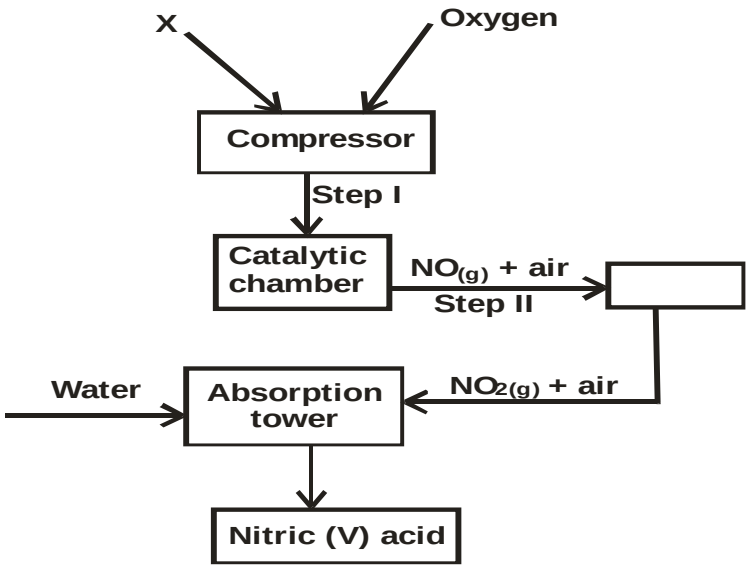
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END OF YEAR EXAM (OCTOBER)

TIME: 2 HOURS

CHEMISTRY FORM 3 PAPER 2

1. The flowchart below shows the large scale manufacture of nitric (V) acid. Study it and answer the questions below.



a) What is the name given to the process (1mk)

b) Name substance X. (1 mark)

c) Identify **one** source of X in this process. (1 mark)

d) Write a balanced equation for the reaction which takes place.

i) At step II. (1 mark)

ii) In the absorption tower (1 mark)

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e) Name the catalyst used in this process (1 mark)

f) Why is it not advisable to store nitric (V) acid in a transparent bottle? (1mrk)

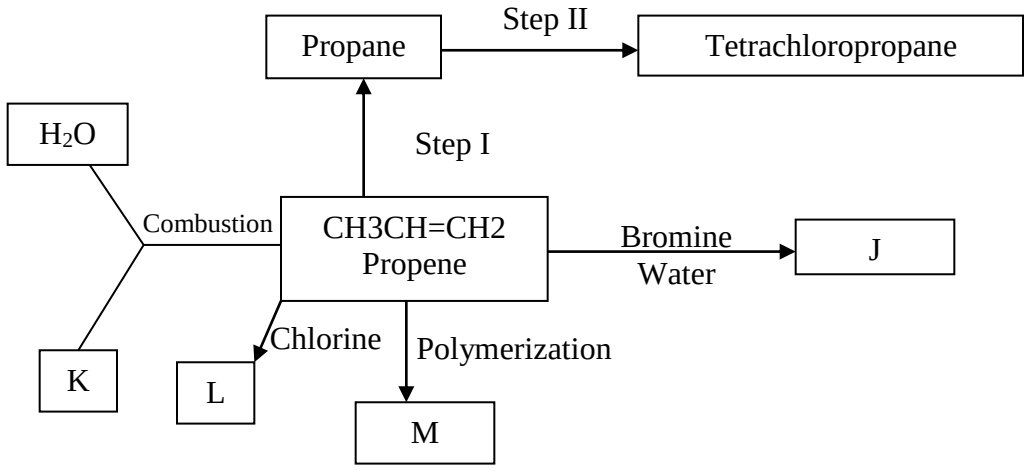
g) State two uses of Nitric V acid (2mks)

2. The empirical formula of a compound is CH_2 and it has a molecular mass of 42.
(a) What is the molecular formula of this compound? (C=12, H=1) (1 mark)

(b) To which group of hydrocarbons does the compound formed in (a) above belong?(1 mark)

(c) Draw the structural formula of the third member of this series and give its IUPAC name (2mks)

d.) The flow diagram below shows a reaction scheme starting from propene.



(a) Draw the structural formula of propene (1 Mark)

(b) State the reagent and condition necessary for step1 to occur

Reagent: (1Mrk)

Condition:

(c) Give the names of the following substances.

J-

K -

L-

M- (2 Marks)

(d) Write the equation for the reaction that produces substance L. (1 Mark)

(e) State the type of reaction that occurs in step I. (1 Mark)

(f) Write the equation for complete combustion of propene. (1 Mark)

(g) (i) Give one use of substances M. (1 Mark)

(ii) State the environmental effects of the continued use of M to the environment. Explain. (2Mrks)

3. a) (i) Name two reagents to prepare Hydrogen chloride in the laboratory. (2 Marks)

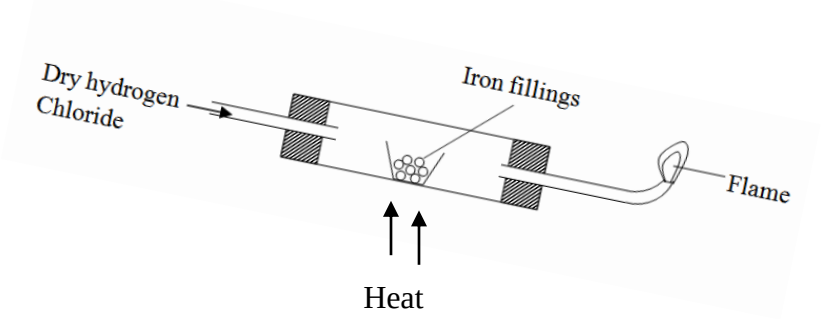
(ii) State a suitable drying agent for hydrogen chloride gas (1mrk)

(iii)Write an equation for the reaction that produces Hydrogen Chloride using the reagents named in a above. (1 Mark)

(iv) Describe a test for Hydrogen Chloride gas. (2mks)

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(b)Dry hydrogen gas was reacted with iron fillings using the set up below:-



(i) Write occur in the combustion tube. (1 mk)

(ii) Write an equation at the point of the flame. (1 Mark)

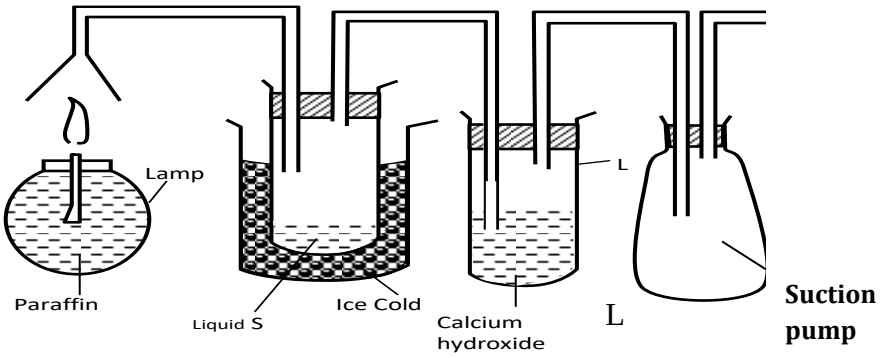
(iii) 1.96 g of iron filling, reacted completely with hydrogen chloride .Calculate the volume of Hydrogen gas produced. (Molar gas volume at r.t.p. is 24 dm^3, Fe=56.0) (2 Marks)

(c) One of the industrial uses of chlorine gas is manufacture of Hydrochloric acid.

(i) Give one source of chlorine gas. (1 Mark)

(ii) Name another major raw material for this process and state its source. (2 Marks)

4. Study the set-up of apparatus below and answer the questions that follow.



a) ***State*** and ***explain*** the observation that would be made in tube ***L*** as the experiment progresses in the first few minutes. (2mks)

b) ***How*** would the observations in the tube ***L*** change if the experiment is carried out for a long time. ***Explain*** using a chemical equation. (2mks)

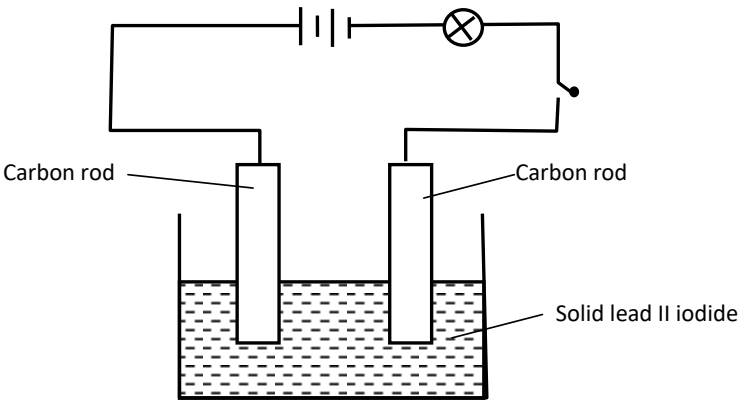
c) ***State three observations*** made when liquid ***S*** is reacted with sodium metal. (3mks)

d) ***State the use*** of the suction pump in this experiment. (1mk)

e. Diamond and graphite are allotropes of carbon. Graphite conducts electricity and diamond does not. ***Explain*** this phenomenon. (2mks)

e) State two uses of carbon (IV) oxide. (2mks)

5. The arrangements below show a set-up to investigate the effect of an electric current on molten lead (II) iodide.



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a) ***Identify two*** mistakes in the set-up. (2mks)

b) ***State three observations*** made after correcting the mistakes. (2mks)

c) ***What particles*** are responsible for electrical conductivity? (1mk)

d) ***Write the equations*** for the reactions taking place at the electrodes. (2mks)

e) ***Indicate*** on the diagram direction of flow of electric current. (1mk)

f) (f) ***State two industrial applications*** of electrolysis process. (2mks)

6. Study the table below and answer the questions that follow. The letters do not represent the actual symbols of the element.

Formula of ion	**Electronic configuration**
E^{2+}	2
D^{-}	2.8
Cl^{-}	2.8.8
B^{3+}	2.8
A^{2+}	2.8

(a) Select elements found in:

(i) The same group (1mk)

(ii) Period three (1 mk)

(iii) What is the family name given to the group number to which element **B** belongs (1mk)

(b) With reasons compare the atomic radius of elements **B** and **A**. (2 mks)

(c) State **two** industrial uses of element **B**. (2 mks)

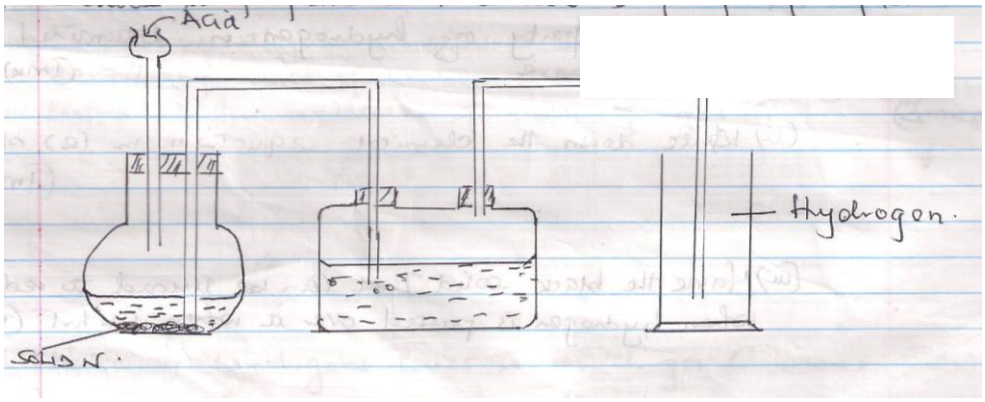
(d) With reasons, compare the reactivity of **E** and **A**. (2 mks)

(e) Write the formula of the compound formed when **D** and **A** react. (1mk)

(b) What type of bond is formed when element E reacts with oxygen. Give a reason or your answer. (2mks)

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7. The set up was used by a student from Karia High School to prepare and collect dry hydrogen gas.



a. Identify three mistakes in this set up and the solution.(3mks)

b. Name liquid B 1mk

c. Suggest a possible solid which can be used as solid N in the set up ;

d. Name a suitable catalyst in this reaction.(1mk)

e. Hydrogen produced can be passed over heated lead(II) oxide to determine one property of this gas.
   i. What property of hydrogen is determined in (e) above. 1mk

   ii. Write down the chemical equation in (e) above. 1mk

   iii. State two uses of Hydrogen gas. (2 mks)

DILIGENT STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

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

CHEMISTRY PAPER 3
FORM 3
END OF YEAR EXAM (OCTOBER)
TIME: 2 ¼ HOURS

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

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

PROCEDURE I

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

(3 mks)

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

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

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

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

PROCEDURE II

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

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

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

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

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

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

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

Observations	Inferences
(2 mk)	(2 mk)

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

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

Observations	Inferences
(1mk)	(1mk)

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

Observations	Inferences
(1 mk)	(1 mk)

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

Observations	Inferences
(1 mk)	(1 mk)

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

Observations	Inferences
(1 mk)	(1 mk)

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

Observations	Inferences
(1 mk)	(1 mk)

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

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

Observations	Inferences
(1 mk)	(1 mk)

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

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

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

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

Observations	Inferences
(1 mk)	(1 mk)

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

Observations	Inferences
(1 mk)	(1 mk)

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

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

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

Observations	Inferences
(1 mk)	(1 mk)

DILIGENT STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

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

FORM THREE

313/1

CHRISTIAN RELIGIOUS EUCATION

PAPER 1 MARKING SCHEME

SEPT/OCT

1. Outline the differences in the two accounts of creation in genesis 1 and two (10mks)
   b) From the story of the fall of human beings in genesis 3:7-23, state the effects of sins. (6mks)
   c) Identify any four causes of evil in Kenya today. (4mks)

2. State the characteristics of the covenant between god and Abraham(5mks)
   b) Explain the importance of gods covenant with Abraham. (10mks)
   c) What lessons do Christians learn from the incident when Abraham was willing to sacrifice? His son Isaac? (5mks)

3. Give five reasons why Israelites demanded for a king (1samuel 8)(5mks)
   b) What lessons can modern political leaders learn from King David? (7mks)
   c) How do Christians in Kenya demonstrate their faith in God? (8mks)

4. Describe the characteristics of false prophets in the old testament(7mks)
   b) State the teachings of prophet Amos about the day of the lord (8mks)
   c) How can Christians assist the church leaders to perform their duties effectively.(5mks)

5. Explain the different occasions when Nehemiah prayed.(8mks)
   b) In what ways did Nehemiah demonstrate qualities of a good leader during his time?(7mks)
   c) What is the importance of prayer in the life of a Christian today? (5mks)

6. What changes have taken place in the rite of initiation in Kenya today?(8mks)

   b) Identify moral values taught to the youths during initiation to adulthood in traditional African communities. (6mks)

   c) Give reasons why female circumcision is being discouraged in Kenya today. (6mks)

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DILIGENT STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

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

CHRISTIAN RELIGIOUS EUCATION

PAPER 2

FORM THREE

END OF YEAR EXAM (OCTOBER)

TIME: 2 ½ HOURS

1. What activities took place during the dedication of Jesus in the temple? Luke 2:22-40 (7mks)
   b) Describe the annunciation of the birth of john the Baptist (7mks)
   c) Identify what Christians learn about the person and mission of john the Baptist from the message of angel Gabriel to Zachariah (6mks?)
2. State the teachings of Jesus on the sermon on the plain on how human beings should relate to one another. Luke 6:27-36. (7mks)
   b) Give a description of the incident in which Jesus forgave the sinful woman, Luke 7:36-50. (8mks)
   c) What lessons do Christian learn from the forgives of the sinful woman.
3. What instructions did Jesus give to the seventy two disciples when he sent them on a mission? (7mks)
   b) Describe the parable of the Pharisee and the tax collector. (6mks)
   c) Give reasons why Christians pray. (6mks)
4. Identify the events that took place between the death and burial of Jesus, Luke 23:46-56 (7mks)
   b) How did Jesus reveal himself to the two men going to Emmaus? Luke 24:13-31 (7mks)
   c) Why is the resurrection of Jesus important to Christians? (6mks)
5. Give an account of the event that took place on the day of Pentecost, acts 2:1-41 (8mks)
   b) In what ways can Christian identify those who are led by the Holy Spirit among themselves? (5mks)
   c) How are the gifts of the Holy Spirit manifested in the church today? (7mks)
6. Explain how the unity of believers is expressed in the concept of the church. (8mks)
   b) Give reasons why the use of the gifts of the Holy Spirit brought disunity in the church at Corinth. (6mks)
   c) Identify ways in which the Christians in Kenya demonstrate the New Testament teaching on unity. (6mks)

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DILIGENT STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

ADM NO: ……..…… SIGN……..……..… DATE: ……

ENGLISH PAPER 1
FORM THREE
END OF YEAR EXAM (OCTOBER)
TIME: 2 HOURS

1. Functional Writing. **(20 Marks)**

Imagine you are the secretary of Mvumilivu Youth group in your community. You are required to take minutes of the proceedings of the meeting. The following information should be included in the minutes.

i) Six members have attended but two cannot and have left apologies. The patron of Washukiwa Youth group was invited and the area Youth officer was present.

ii) The previous minutes were read through and one item - the dates of the constituency is discussed as matters arising.

iii) Agenda included – registration of new members, club elections and projects 2025.

iv) A.O.B included: invitation of guest speakers and end of year party.

Write down the minutes of the meeting.

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2. Cloze Test. (10 Marks)

Education is important in enabling the citizens to improve their standards of living. Women today constitute 1 _____ seventy percent of the world's poor. Although 2 _____ provide important labour especially in the agricultural 3 _____ they receive very little 4 _____ their effort. Education will 5 _____ the woman to have access to better employment. Culture also influences the patterns of behavior expected of females and 6 _____. This includes personality, economics, social and domestic tasks and responsibilities. Traditional 7 _____ towards women and their place in 8. ._____ as wives and mothers discriminate against them. As such 9 _____ at early age are treated as sources of 10 _____ for the families.

3. Oral Skills

Read the poem below and answer the questions that follow.

Make me a grave whate'er you will,
In a lowly plain, or a lofty hill,
Make it among earth's humblest graves'
But not in a land where men are slaves.
I could not rest if around my grave
I heard the steps of a trembling slave,
His shadow above my silent tomb
Would make it a place of fearful gloom.
I could not rest if I heard the tread
Of a gang to the shambles led.
And the mother's shriek of wild despair
Rise like a curse on the trembling air.

a. (i) Show the rhyme scheme of the poem and describe it. (2mks)

(ii) What features would you employ when reciting the above poem before the audience? (2mks)

(iii) Mention two ways in which you would know that your audience is fully participating during the recitation of the above poem. (2mks)

(iv) Which words would you stress in the last line of the above poem and why? (2mks)

b. Read the following conversation and answer the question that follow:

Chairperson: Our teacher has asked us to discuss the importance of poetry. As the chairperson, I should begin by giving my observations about it, I find poetry exciting and I have tried to compose some…..

Member 1: Mr. Chairperson, we need to report back…..

Chairperson: I will do the reporting ….

Member 2: But Mr. Chairperson, can you chair and record what we are going to say at the same time? And is it proper?

Chairperson: I was appointed to chair. Do you want to take over.

Member 3: I don't even know why people write poetry anyway. Why can'tthey write in a more straight forward way?

Member 4: For me, a poem tries to capture a moment of human feelings that are universal in significance. And as readers……

Chairperson: You didn't allow me to finish. As I was saying…

Member 5: But have we resolved the question of procedure?

Chairperson: I give up. Somebody else can chair and report to the rest of the class.

I. Identify three limitations in:

i) Chairing. (3mks)

ii) Participation. (3mks)

II. Imagine you are to make an oral report on the causes of poverty in your local area.

i) Give three ways which you will prepare before your presentation. (3mks)

ii) How would you present your report effectively? Give three ways. (3mks)

c. (i) In the following sets of words, identify the underlined speech sound that is odd(3mks)

(a)	G<u>e</u>n<u>e</u>	J<u>u</u>dge	J<u>u</u>ne	G<u>o</u>re
(b)	Bl<u>a</u>b	Bl<u>a</u>ck	Bl<u>a</u>st	B<u>ou</u>t
(c)	Shake	Br<u>a</u>ke	S<u>a</u>me	S<u>a</u>dden

(ii) Indicate the intonation in the following sentences. (4mks)

(a) Who among you did it?

(b) Is this really true?

(c) I will accomplish the task.

(d) He's alive!

d. Give another word that is pronounced the same as the ones below. (3mks)

i) Ewe -

ii) Ate -

iii) Wholly -

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NAME…… ADM …… CLASS…….

DILIGENT SRUDENTS FORM THREE END TERM THREE SERIES ONE EXAMS

FORM THREE
ENGLISH PAPER TWO (101/2)
END OF YEAR EXAM (OCTOBER)
TIME: 2 HOURS

COMPREHENSION, LITERARY APPRECIATION AND GRAMMAR

INSTRUCTIONS

1. WRITE YOUR NAME, ADMISSION NUMBER AND CLASS IN THE SPACE PROVIDED
2. ANSWER ALL THE QUESTIONS IN THE SPACES PROVIDED
3. ALL ANSWERS SHOULD BE IN ENGLISH

FOR EXAMINER'S USE

QUESTION	MAXIMUM SCORE	SCORE
1. COMPREHENSION	20	
2. LITERARY APPRECIATION	25	
3.POETRY	20	
4. GRAMMAR	15	
TOTAL	**80**	

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1. COMPREHENSION

Read the passage below and then answer the questions that follow.(20 MKS)

It is so easy to overestimate the importance of one defining moment and underestimate the value of making small improvements on a daily basis. Too often, we convince ourselves that massive success requires massive action. Whether it is losing weight, building a business , writing a book, winning a championship, or achieving any other goal, we put pressure on ourselves to make some earth-shattering improvement that everyone will talk about.

Meanwhile, improving by 1 percent isn't particularly notable – sometimes it isn't even noticeable—but it can be far more meaningful, especially in the long run. The difference a tiny improvement can make over time is **astounding**. Here's how the math works out: if you can get 1 percent better each day for one year, you'll end up thirty-seven times better by the time you're done. Conversely, if you get 1 percent worse each day for one year, you will decline nearly to zero .What starts as a small win or a minor setback accumulates into something much more.

Habits are the compound interest of self-improvement. The same way that money multiplies through compound interest, the effects of your habits multiply as you repeat them. They seem to make little difference on any given day and yet the impact they deliver over the months and years can be **enormous**. It is only when looking back two, five, or perhaps ten years later that the value of good habits and the cost of bad ones becomes strikingly apparent.

This can be a difficult concept to appreciate in daily life. We often dismiss small changes because they don't seem to matter very much in the moment. If you save a little money now, you're still not a millionaire. If you go to the gym three days in a row, you're still out of shape. If you study English for an hour tonight, you still haven't learned the language. We make a few changes, but the results never seem to come quickly and so we slide back into our previous routines.

Unfortunately, the slow pace of transformation also makes it easy to let a bad habit slide. If you eat an unhealthy meal today, the scale doesn't move much. If you work late tonight and ignore your family, they will forgive you. If you procrastinate and put your project off until tomorrow, there will usually be time to finish it later. A single decision is easy to dismiss.

But when we repeat 1 percent errors, day after day, by replicating poor decisions, duplicating tiny mistakes, and rationalizing little excuses, our small choices compound into toxic results. It's the accumulation of many missteps—a 1 percent decline here and there—that eventually leads to a problem.

Similarly, a slight change in your daily habits can guide your life to a very different destination. Making a choice that is 1percent better or 1percent worse seems insignificant in the moment, but over the span of moments that make up a lifetime these choices determine the difference between who you are and who you could be. Success is the product of daily habits-not once-in-a-lifetime transformations.

That said, it doesn't matter how successful or unsuccessful you are right now. What matters is whether your habits are putting you on the path toward success. You should be far more concerned with your current trajectory than with your current results .If you're

Millionaire but you spend more than you earn each month, then you're on a bad trajectory. If your spending habits don't change, it's not going to end well. Conversely, if you're broke, but you save a little bit every month, then you're on the path toward financial freedom-even if you're moving slower than you'd like.

Your outcomes are a lagging measure of your habits. Your net worth is a lagging measure ofyourfinancialhabits.Yourweightisalaggingmeasureofyoureatinghabits.Yourknowledge is a lagging measure of your learning habits. Your **clutter** is a lagging measure of your cleaning habits. You get what you repeat. Habits are a double-edged sword.

Adaptedfrom*AtomicHabits*byJamesClear

a) What does the writer mean by the first statement of the first paragraph? (2marks)

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b) What are we told about habits in the second paragraph of the passage? (2marks)

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c) What is the relationship between habits and compound interest? (2 marks)

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d) Cite examples from the passage to show that habits are a double-edged sword. (2marks)

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e) In a summary of not more than **60** words explain why the author says the concept of habits being compound interest is difficult to appreciate in daily life. (5marks)

Rough copy

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Fair copy

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f) "You should be far more concerned with your current trajectory than with your current results."*(Rewrite beginning: Your….)* (1mark)

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g) Explain the following imagery: "Habits are the compound interest of self-improvement." (3marks)

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h) Explain the meaning of the following words as used in the passage. (3marks)

i) astounding……

ii) enormous……

iii) clutter……

2. FATHERS OF NATIONS

Read the excerpt below and then answer the questions that follow (25mks)

"Tad," said the cranky passenger as he was settling down in the economy class, in a seat next to Dr.Afolabi's. "Tad Longway," he added. His voice, deep, lingered on like the boom of a bigdrum.Heheldoutacard.

Dr.Afolabi took it. It said the man was a Director of Special projects at the Agency for Governance and Development in Africa. "Pleased to meet you, Mr.Longway,"Dr.Afolabi said. My name is Abiola Afolabi.I teach at the University of Ibadan,Nigeria."

"You gave an excellent keynote address the other day, DrAfolabi," said the cranky passenger. Sparks of **earnestness** were crossing his eyes, both crystal-green like toy marbles, confirming the compliment was sincere. "Your keynote address at the Foundation for Democratic Rule, I mean. It was brilliant."

"I'm glad you liked it, Mr.Longway," Dr.Afolabi said. His voice had become warm. "You were there, then, Mr.Longway?"

"Yes, but in the last row. As a mere spectator, I did not want to be **obtrusive**. Anyway, you were superb, Dr.Afolabi. If you don't mind my adding this, I was more impressed by the points that the audience raised afterwards, during the question-and – answer period."

Dr.Afolabi felt the praise he had just heard turn into reproach. "So what were those points, Mr.Longway?" he asked. His voice was less warm.

"Remember the guy from Grassroots International; short fellow, round of body and outspoken of manner? What was his name? It's on the tip of my tongue."

"You mean the fire-eater who kept accusing me of looking for answers where I shouldn't even look," Dr.Afolabi said.

"Exactly, that's our man. Yes, I thought he was right on point, Dr.Afolabi. He too was unhappy with the present state."

"Wait, the present state of what?

"Africa." I don't understand."

"No problem: I'll spell it out for you. You see, Dr.Afolabi, Africa, in its present state, has two new arrivals: corruption and impunity. The first is a crime the second protects from punishment, the second is another crime the first rewards with kickbacks. That is African its present state. Now can it change?"

"Tell me. *Canit?"*

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"Well, let's ask the Law of Will."

"What?"

"Unless there is will to change, there will be no change." That is the Law of Will. Dr. Afolabi, I was wondering whether you might be interested in an adventure that is being sponsored by AGDA. Oh, I am sorry: make that the Agency for Governance and Development in Africa. Its **underlying** idea is to mobilize our discontent with Africa, in its present state, into will to change it.

"This little meeting between us is not an accident, then, is it, Mr. Longway?"

"What's an accident, Dr. Afolabi? All events are but consequences of events that precede them. Now, what is this I hear about you serving as advisor at the next summit of Africa's heads of states in Banjul, the Gambia?"

"You are well informed, Mr.Longway," Dr. Afolabi said. He had begun to see the green-eyed man in a different light. "Yes, heads of state have invited me there to give them my view son *Way Omega*," headed. "You know of *Way Omega.* No?"

"Yes, I do. So what are they, your views?

"They are that the summit should go with *Way Omega.* It will change our style of doing business. Just think: no more military coups or rigged elections, no more civil wars or ethnic clashes .If adopted , what a breath offreshair *Way Omega* would be!"

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

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b) "Exactly, that's our man."Why do you think Mr. Longway says that this is their man? (2marks)

……

……

……

c) "You see, DrAfolabi, Africa, in its present state, has two new arrivals: corruption and impunity." Referring to elsewhere in the novel, name the other problems that bed evil Africa.
(2marks)

……

……

……

d) What is the position of Mr. Longway on the African leadership in its present state? Explain your answer. (3 marks)

.....

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.....

e) Identify and illustrate one theme evident in the excerpt. (2marks)

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f) "A samer espectator, I did not want to be obtrusive." *(*Rewrite *beginning: I did not….)* (1mark)

.....

g) How is Mr. Longway portrayed in this excerpt? Illustrateyouranswer. (4marks)

.....

.....

.....

.....

h) Identify and explain two features of style evident in the excerpt. (4marks)

.....

.....

.....

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……

i) Explain the meaning of the following words as used in the excerpt. (3marks)

i) earnestness……

ii) obtrusive……

iii) underlying……

3. LITERARY APPRECIATION

Read the following poem and then answer the questions that follow. (20 mks)

Good Timber

The tree that never had to
fight For sun and sky and air
and light, But stood out in the
open plain And always got its
share of rain, Never became a
forest king
But lived and died a **scrubby** thing.

The man who ever had to toil
To gain and farm his patch of
soil,
Who never had to win his
share Of sun and sky and light
and air, Never became a manly
man
But lived and died as he began.

Good timber does not grow with ease:
The stronger wind, the stronger
trees;
The further sky, the greater length;
The more the storm, the more the
strength. By sun and cold, by rain and
snow,
In trees and men good timbers grow.

Where thickest lies the forest
growth We find the **patriarchs** of
both,
And they hold counsel with the stars
Whose broken branches show the
scars Of many winds and much of
strife.
That is the common law of life

By Douglas Malloch

a) What is this poem about? (3marks)

.....

.....

.....

b) Explain the similarity between good timber and a manly man. (3marks)

.....

.....

.....

c) Why couldn't the tree described in the first stanza become a forest king ? (2marks)

……
…

.....

.....

d)What is the tone of this poem? Explain your answer. (3marks)

.....

.....

.....

e) Identify and explain the use of any two poetic devices evident in this poem.(4 marks)

.....

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.....

.....

f) What is the message of this poem? (2marks)

.....

……

……

……

g) Explain the meaning of the following words as used in the poem.(3 marks)
i) scrubby……..
ii)patriarchs……

iii) strife……

4. **GRAMMAR (25mks)**

(a) Rewrite the following sentences according to the information given after each. Do not change the meaning. (4marks)

i) Do not give in to peer pressure the IG advised his police officers(*Punctuate correctly)*

……

……

ii) That was the first time our MPs voted to impeach a Cabinet Secretary.(Begin: Never….)
……

……

iii) The party had just started. The police officers arrived. . (Join into one sentence Beginning: Hardly….)
……

……

iv) Do not give in to peer pressure the IG advised his police officers(*Punctuate correctly)*

……

……

v) That was the first time our MPs voted to impeach a Cabinet Secretary.(Begin: Never….)
……

……

vi) The party had just started. The police officers arrived. . (Join into one sentence Beginning: Hardly….)
……

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……

vii) The American public is not interested in appeasing terrorists. (Begin*: Appeasing…)*

……

……

b) Choose the correct alternative from the brackets to complete the sentences.(3marks)

(i) We were requested to remain.....(sitted, seated) as the guests left.

(ii) This .....(maybe, may be) the last match that he plays for Arsenal.

(iii) Did you say there .....(were, was) chaos in parliament during the debate on this bill?

c) Fill* in the blank spaces with the correct *form of the words in brackets. (3marks)

(i) The doctors' union has described the latest pay offer as .....(accept); they will not call off the strike.

(ii) Jordan was..... ,(argue)the best basketball player of all time.

(iii) The autopsy revealed that his murderer had ..... (strike) him on the forehead with an iron bar.

d) Replace the underlined idiomatic expressions with words of similar meaning.(3marks)

(i) Massive migration is a real <u>hot potato</u> for European countries.

……

……

(ii) The project had been given funding for another year, but it is not <u>out of the woods</u> yet.

……

……

(iii) I dislike that man because he tried to <u>stab</u>me<u>in the back</u>.

……

……

e) Fill in each blank space with the correct word. (2marks)

(i) Omondi would be staying.....his cousin's place for the weekend.

(ii) Please sign your name..... the dotted line after you read then contract.

THIS IS THE LAST PRINTED PAGE

DILIGENT STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

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

FORM 3

101/3 ENGLISH - PAPER 3

(Creative Composition and Essay Based on Set Text)

TIME: 2½ HOURS, Term 3

Instructions to the Candidates

1. Write your details in the spaces provided at the top of this page.
2. Answer **three** questions only.
3. Questions **one** is compulsory and choose any **two** as instructed by your teacher.
4. Each of your essays must **not** exceed **450** words.
5. Candidates should check to ascertain that no questions are missing.
6. Candidates must answer the questions in English.

For Examiner's Use Only

Question	Maximum score	Candidate's score
1	20	
2	20	
3	20	
Total	**60**	

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*Answer **three** questions only*

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

   EITHER

   (a) Write a composition beginning with the following words
   I woke up on Christmas day feeling excited.
   OR
   (b) Write a composition on the negative effect of social media and explain how the youth can avoid its negative aspects.

2. **PLAY, THE SAMARITAN By John Lara (20 MARKS)**
   (a) Bad leaders will not escape punishment due to their evil deeds. Using illustrations from John Lara's The Samaritan, write an essay to support this statement.
   (b) Standing firm in doing what is right yields good results. Using Nicole, in John Lara's, The Samaritan, write an essay in support of this statement.

3. **EITHER**
   (a) The short story (A Silent Song and Other Stories)
   I. Some people can misuse the power in their hands and en up regretting when they lose it.With close reference to Naguib Mahfouz's story A Man of Awesome Power write an essay to justify this statement. (20 marks)

   OR

   II. Drawing illustrations from Meja Mwangi's, An Incident in the Park, write an essay to discuss the problems of urbanization. (20 marks)

   OR

   (b) Drama –Adipo Sidang'-Parliament of Owls.
   Choices have consequences. With relevant examples from Sidang's Parliament of Owls, discuss the validity of this statement. (20 marks)

   OR

   (c) The novel-Kazuo Ishiguro. An Artist of the Floating World
   War causes many negative results. Drawing examples from Ishiguro's An Artist of The Floating World, write an essay to show the truth of this statement. (20 marks)

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DILIGENT STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

NAME: ……..……

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

312/1
GEOGRAPHY PAPER 1
FORM 3
END OF YEAR EXAM (OCTOBER)
TIME: 2 HOURS 45 MINUTES.

Kenya Certificate of Secondary Education.

INSTRUCTION TO STUDENTS.

a. *Write your name and admission number in the spaces provided.*
b. *Sign and write the date of the examination in the spaces provided above.*
c. *This paper has two sections **A** and **B**.*
d. *Answer **ALL** the questions in section **A**.*
e. *Answer question **6** and any other **TWO** questions from section **B**.*
f. *Answers must be written in the spaces provided at the end of question **10**.*
g. *This paper consists of 9 printed pages.*
h. *Candidates should ascertain that all the pages are printed as indicated.*
i. *Candidates should answer the questions in English.*

FOR EXAMINERS USE ONLY.

QUESTION	*MARKS*	*STUDENTS SCORE*
1-5	*25*	
6	*25*	
7	*25*	
8	*25*	
9	*25*	
10	*25*	
TOTAL SCORE		

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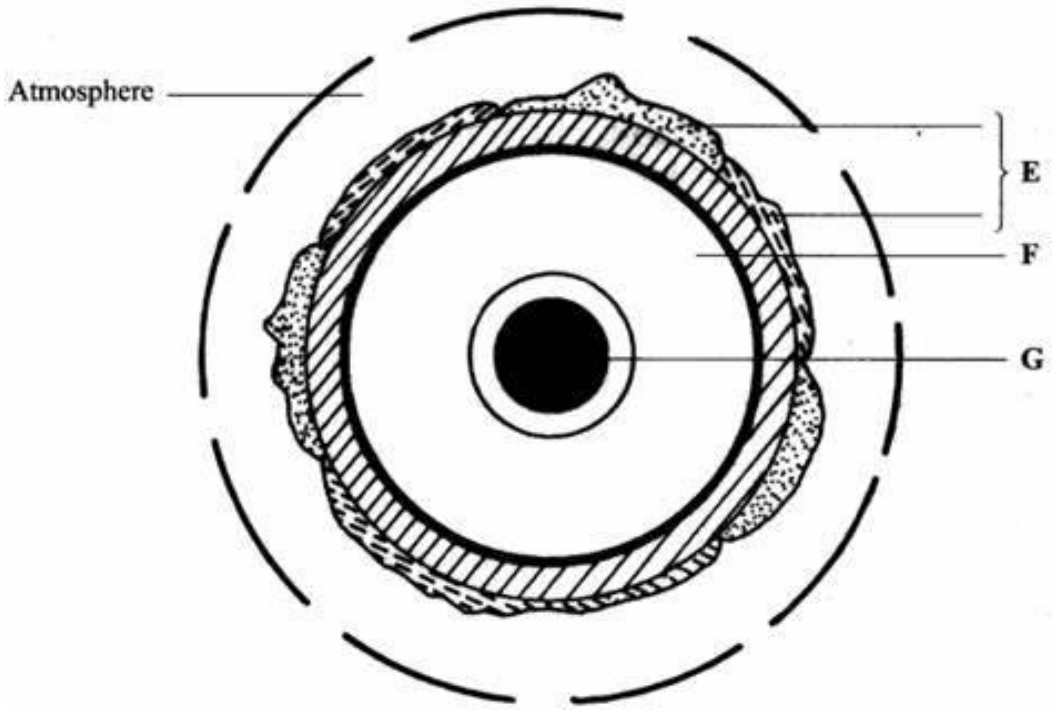
SECTION A

Answer All Questions In This Section.

1. (a) Name **two** branches of geography. **(2 marks)**

(b) State **three** reasons why it is important to study geography. **(3 marks)**

2. Study the diagram of the internal structure of the earth provided and answer the questions that follow.



(i) Identify the layers marked **X** and **Y**. **(2 marks)**

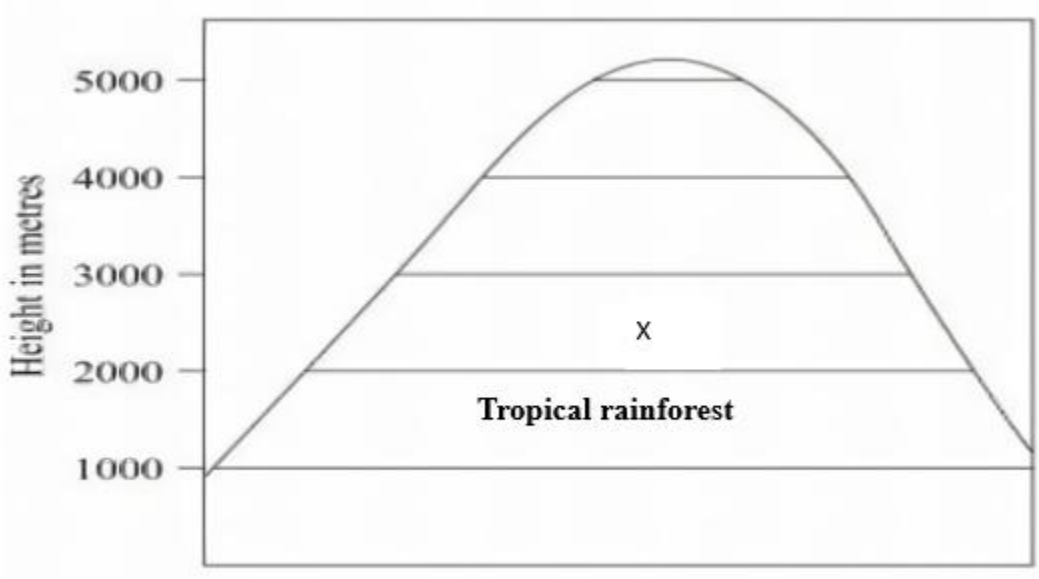
(ii) State **three** characteristics of the crust. **(3 marks)**

3. (a) Name **two** earthquake zones in the world. **(2 marks)**

(b) State **three** natural causes of earthquakes. **(3 marks)**

4. The diagram below shows the vegetation zones on a mountain slope.

(i) Identify the zone marked **X**. **(1 marks)**



(ii) State **four** characteristics of tropical rain forest. **(4 marks)**

5. (a) Give **two** types of coastal deltas. **(2 marks)**

(b) State **three** conditions necessary for the formation of a delta. **(3 marks)**

SECTION B

Answer Questions 6 And Any Other Two Questions.

6. (a) Study the map of Tambach **1:50 000 (sheet 90/3)** provided and answer the Following questions.

(i) Name ***three*** human features found in grid square 8260. **(3 marks)**

(ii) Measure the length of all-weather road loose surface C 51from the junction near the mining camp to the southern edge of the map. Give your answer in Kilometers. **(2 marks)**

(iii) Convert the map scale into a statement scale? **(2 marks)**

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(iv) Give **two** ways through which relief has been represented in the area covered by the map. **(2 marks)**

(c) Draw a square 15cm by 10cm to represent the area enclosed by easting 78 and 95 and northing 60 and 70. **(1 mark)**

On it mark and label the following features.

(i) River Kerio. **(1 mark)**

(ii) Lake Kamnorok. **(1 mark)**

(iii) Seasonal swamp. **(1 mark)**

(iv Tambach Municipality **(1 mark)**

(d) (i) Describe the drainage of the area covered by the map. **(6 marks)**

(ii) Citing evidence from the map, state ***five*** functions of Tambach town. **(5 marks)**

7. (a).Differentiate between minerals and rocks. **(2 Marks)**

(b)(i). A part from igneous rocks, give **two** other types of rocks according to mode of formation. **(3 Marks)**

(ii). Describe how extrusive igneous rocks are formed. **(4 Marks)**

(iii). State **three** characteristics of igneous rocks. **(3 Marks)**

(c). Explain **three** significance of rocks. **(6 Marks)**

(d). Form four students of Highland High school conducted a field study on rocks within their school vicinity.

(i) State **four** ways on how they prepared for the field study. **(4 Marks)**

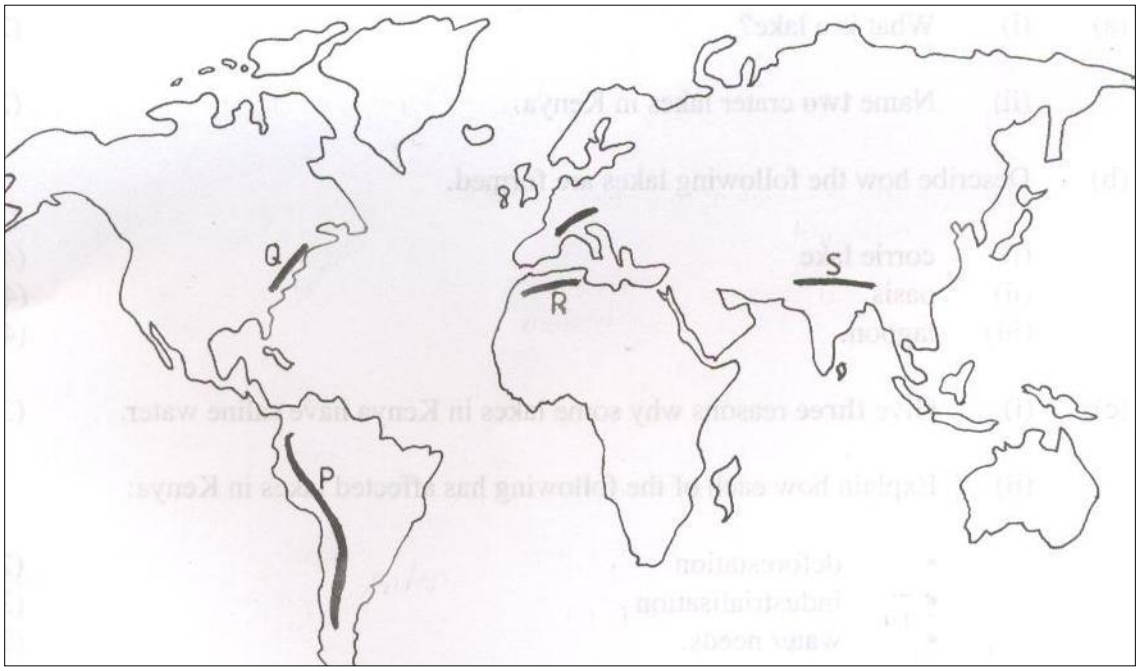
(ii) State **three** methods they used to collect statistical data. **(3 Marks)**

8. (a) (i) What is crustal earth movements? **(2 marks)**

(ii) Name ***two*** boundaries which occur on tectonic plate margins. **(2 marks)**

(b)(i) State ***three*** importance of studying the plate tectonics theory. **(3 marks)**

(ii) The map below shows global distribution of Fold Mountains. Name the Fold Mountains marked **P, Q, R** and **S.** **(4 marks)**



(c) Using well labelled diagrams, describe how Fold Mountains were formed **(8 marks)**

(d) Explain **three** effects of Fold Mountains on human activities. **(6 marks)**

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9. (a) What is climate? **(2 marks)**

(b) Study the map of climatic regions of Kenya provided and answer the questions that follow.



(i) Identify the climatic zone marked **Y**. **(1 marks)**

(ii) State **four** climatic characteristics of the zone marked **Z**. **(5 marks)**

(c) Explain **two** human factors that influence climate. **(4 marks)**

(i) Name **three** greenhouse gases. **(3 marks)**

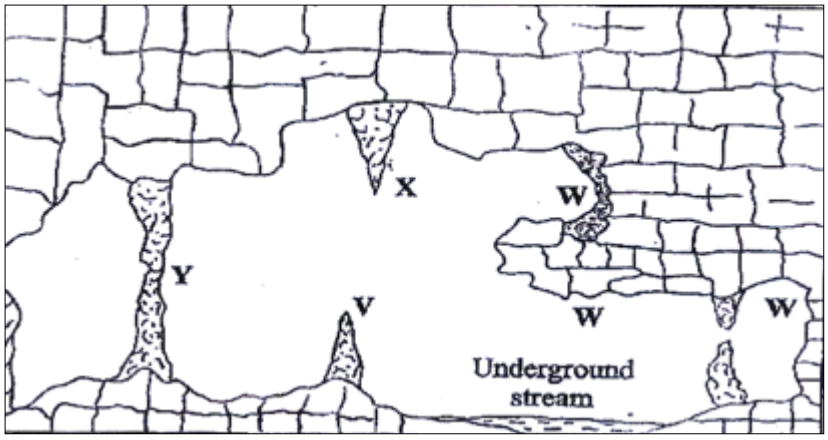
(ii) Explain **three** measures of curbing climate change. **(6 marks)**

(iii) State **four** effects of climate change. **(4 marks)**

10. (a)(i) Define the term Karst landscape. **(2 Marks)**

(ii). Name **three** surface features in limestone region. **(3 Marks)**

(b). The diagram below show underground features in a limestone area.



(i). Name the features marked **X** and **W**. **(2 Marks)**

(ii) Describe how the feature marked **V** is formed. **(7 Marks)**

(c). Give **three** reasons why there are few settlement in karst landscape. **(3 Marks)**

(d). Students of Sacho High school conducted a field study on karst landscape.

(i). State **three** activities they were involved in during the study. **(3 Marks)**

(iii) Prepare a working schedule for one day field study they would have used during the study. **(5 Marks)**

DILIGENT STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

NAME: ……..……

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

GEOGRAPHY PAPER 2

FORM THREE TERM 3 EXAMS

TIME: 2 ¾ HOURS

SECTION A
Answer all questions in this section

1. (a) State **three** ways in which minerals occur. (3 mks)
(b) Name **three** methods of mining. (3 mks)
2. (a) What is pastoralism? (2 mks)
(b) State any **three** measures being taken by the Kenya government to improve pastoral farming In Kenya. (3 mks)
3. (a) State **two** characteristics of horticulture farming in Kenya. (2 mks)
(b) State **two** factors that favor horticulture in Netherland. (2 mks)
4. The table below represents agricultural crops exported from Kenya between 1993 – 2003.

EXPORTS IN TONNES

Crop	**1999**	**2000**	**2001**	**2002**	**2003**
Horticulture	17641	21216	19846	28332	36485
Tea	33065	35150	34485	34376	33005
Coffee	12029	11707	7460	6541	6286

(a) Using a scale of 1 cm rep. 2000 tonnes, draw a comparative line graph exports per crop between 1999 – 2003 (7mks)
(b) (i) Give **four** possible reasons for the trend observed. (4 mks
(c) (i) Identify **three** counties producing coffee in Kenya. (3 mks)
(ii) Outline **four** physical problems faced by farmers in Kenya in the recent past. (4 mks)
5. (a) Name any **four** mineral mined in Kenya. (4 mks)
(b) State any **five** factors that influence exploitation of minerals. (5 mks)
(c) Explain **three** ways in which soda ash contributes to the economy of Kenya. (6 mks)
(d) Ways in which mining derelicts can be reclaimed. (5 mks)

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6. (a) (i) Define Agro forestry. (2 mks)

(ii) Outline **four** benefits of Agro forestry. (4 mks)

(b) (i) List any **three** types of tropical hardwood tree species found in Kenya. (3 mks)

(ii) Explain **three** problems hindering the exploitation of tropical hardwood forests. (6 mks)

(c) State **four** measures that the Kenyan government is taking to conserve forest in the country.(4 mks)

(d) Compare softwood in Kenya and Canada under the following sub-topics

(i) Species (2 mks)

(ii) Problems (2 mks)

(iii) Marketing (2 mks)

7. (a) (i) Name **three** exotic dairy breeds reared in Kenyan highland. (3 mks)

(ii) Name **two** products from milk. (2 mks)

(b) Explain **four** importance of dairy farming in Kenya. (8 mks)

(c) (i) What is beef farming? (2 mks)

(ii) Explain **five** limitations of beef farming in Kenya. (10 mks)

DILIGENT STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

NAME: ……..……

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HISTORY PAPER 1
END YEAR EXAM
FORM THREE
TIME: 2 ½ HOURS

SECTION A (25MARKS)
Answer ALL Questions.

1. Give one economic reason for studying History and Government. (1mk)

2. What was the main rivalry between Mombasa and Malindi city states? (1mk)

3. Name one family that ruled Mombasa and Lamu on behalf of Oman rulers. (1mk)

4. Identify the main two items of trade from interior part of Kenya during the long distance trade. (2mks)

5. What constitutional amendment made Kenya return to multi-party state? (1mk)

6. State the main function of parliament in Kenya. (1mk)

7. State the highest court in Kenya. (1mk)

8. Define the term citizenship. (1mk)

9. Name two African leaders who were detained in 1952 at the declaration of the state of emergency. (2mks)

10. Name two national security organs in Kenya. (2mks)

11. Identify two classes of Monarchial government. (2mks)

12. Name the treaty which marked the spheres of influence in East Africa in 1900AD. (1mk)

13. Identify the political challenge the Government of Daniel Arap Moi faced in 1982. (1mk)

14. State one economic use of Gold. (1mk)

15. Name one early visitors from Europe to East Africa coast upto 1500AD. (1mk)

16. State the contribution of Alexander Graham Bell in history. (1mk)

17. State two political functions of the oloiboni among the Maasai in the 19th Century. (2mks)

18. State two ways in which the national Accord and Reconciliation Act of 2008 affected the composition of the Kenya government. (2mks)

19. Identify the leader who stepped down as the president of Kenya African Union (KAU) for Jomo Kenyatta. (1mk)

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SECTION B (45 MARKS)
Answer only THREE Questions

20. (a) Outline three reasons why the early visitors came to the East African Coast. (3mks)
(b) Explain six positive effects of the missionary activities. 12mks)
21. (a) Name three symbols of national unity. (3mks)
(b) Discuss the factors that undermine national unity in Kenya. 12mks)

22. (a) Mention three religious functions of the Orkoiyot among the Nandi during the pre-colonial period. (3mks)
(b) Explain six economic activities of the Maasai during the pre-colonial period. (12mks)

23. (a) State three grievances that the Asian presented in the Devonshire white paper of 1923. (3mks)
(b) Explain six effects of Devonshire white paper of 1923. (12mks)

SECTION C – 30 MARKS
Answer only TWO Questions.

24. (a) Give three conditions that a person should meet to qualify to be a Kenyan citizen by birth. (3mks)
(b) Explain six social rights of a Kenyan citizen. (12mks)

25. (a) Identify three ways in which conflict can be prevented in Kenya. (3mks)
(b) Explain six ways in which the county government raises their revenue. (12mks)

26. (a) State three roles played by Prof. Wangari Maathai in the promotion of women welfare in Kenya. (3mks)
(b) Explain six roles of a returning officer in an election in Kenya. (12mks)

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END TERM 3 SERIES ONE EXAMS

NAME: ……..……

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HISTORY PAPER 2
END YEAR EXAM
FORM THREE
TIME: 2 ½ HOURS

SECTION A (25MARKS)
Answer ALL Questions in this section.

1. State two limitations of using electronic sources of information in History and Government. (2mks)
2. Name the author of the book entitled 'Origin of species by means of Natural selection'. (1mk)
3. Give two similarities between early agriculture in Egypt and Mesopotamia. (2mks)
4. Identify two trade participants in the Trans-Atlantic Trade. (2mks)
5. State two characteristics of modern roads. (2mks)
6. Give two disadvantages of using messengers in early communication. (2mks)
7. State two modern uses of electricity. (2mks)
8. Outline two developments in Cairo under the Syrians from 1100-1249 A.D. (2mks)
9. Identify two types of treaties signed during the scramble and partition of Africa. (2mks)
10. Give two reasons why it was compulsory for the Omanhenes in the Asante kingdom to attend the annual Odwira Festival. (2mks)
11. State two sources of the unwritten constitution in Britain. (2mks)
12. Name the types of writing invented in Mesopotamia and Egypt.(2mks)
13. State two disadvantages of barter trade. (2mks)

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SECTION B: (45 MARKS)
Answer any THREE questions in this section.

14. (a) Describe the agricultural practices in Europe before the Agrarian Revolution. (5mks)
(b) What were the results of the Agrarian Revolution in Europe? (10mks)

15. (a) Why is the camel referred to as the 'ship of the desert'? (3mks)
(b) Explain the disadvantages of early animal transport. (12mks)

16. (a) Explain the uses of copper in pre-colonial Africa. (3mks)
(b) Discuss the impact of metals in Africa. (12mks)

17. (a) Describe the course of the Majimaji rebellion (1905-1907) (5mks)
(b) Explain the reforms introduced by the German administration in Tanganyika after Majimaji rebellion. (10mks)

SECTION C (30 MARKS)
Answer any TWO Questions from this section

18. (a) Discuss the laws that were enacted by the apartheid regime to facilitate apartheid in South Africa. (5mks)
(b) Explain the methods used by the African nationalists in South Africa in their struggle for national liberation. (10mks)

19. (a) What are the main characteristics of human rights? (3mks)
(b) Discuss the United Nations charter on Human Rights. (12mks)
20. (a) What factors facilitated the growth of the Ghananian nationalism? (5mks)
(b) Why did Ghana achieved independence earlier than other African countries. (10mks)

DILIGENT STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

JINA: ……..……

SHULE: ……..……

NAMBARI YA USAJILI: ……..……. SAHIHI……..……..… TAREHE: ……

KISWAHILI KIDATO CHA TATU
MUHULA WA TATU
INSHA (KARATASI LA KWANZA)

MAAGIZO

Jibu Maswali Mawili peke yake

1. **Insha ni ya lazima**.

Mwandikie barua katibu wa kudumu wa wizara ya Elimu ukipendekeza mikakati itakayotumiwa kuimarisha matokeo ya somo la Kiswahili inchini.

2. Jadili maafa ya mafuriko hapa nchini.

3. Uliteuliwa kuwa katibu wa jopo lililochaguza athari za ufisadi hapa nchini. Andaa ripoti hiyo huku ukionyesha hatua ambazo serikali imechukua katika kukabiliana na hali hiyo.

4. Andika mtungo utakaomalizikia kwa:Waama,mwanamke ni nguzo thabiti katika ujenzi wa jamii.

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DILIGENT STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

JINA: ……..……

SHULE: ……..……

NAMBARI YA USAJILI: …….……. SAHIHI……..……..… TAREHE: ……

KISWAHILI
KIDATO CHA TATU
MUHULA WA TATU
KARATASI YA PILI
MUDA: SAA 2 ½

MAAGIZO
Jibu Maswali Yote

UFAHAMU

Soma kifungu kifuatacho kisha ujibu maswali yafuatayo.

Halmashauri ya mpwito nchini imetoa mwongozo kuhusu majukumu yanayofaa kutekelezwa na serikali za kaunti kote nehini kuanzia Julai mosi mwaka iuiu.
Mwongozo huo utasaidia kuondoa wasiwasi ambao baadhi ya mashirika yasiyo ya serikali yalielezea kuwa huenda baadhi ya sekta zisipate ufadhili kutokana na utata kuhusu ni serikali ipi inafaa kuzishughulikia.
Shughuli hizi zinajumuisha kilimo ambapo zitahakikisha maendeleo ya mimea. Mifugo na uvuvi. Serikali za kaunti pia zitashughukia huduma za afya kuhakikisha kuna dawa na vifaa vya kutosha katika zahanati na hospitali.
Uhifadhi wa mazingira na tamaduni za kijamii kama vile makavazi,maktaba na majumba ya burudani vilevile zitakuwa chini ya usimamizi wa kaunti.
Serikali hizo pia zitasimamia masuala ya uchukuzi kwa kushughulikia ukarabati wa barabara, taa za kudhibiti msongamano wa magari na bandari.
Kulingana na taarifa iliyochapishwa kwenye vyombo vya habari, serikali hizo pia zitashughulikia maendeleo ya biashara na vyama vya ushirika.
"Serikali za kaunti zitajihusisha na kudhibiti mipaka na matumizi ya kawi, elimu ya chekechea na vyuo vya ufundi katika ngazi za vijijini, taarifa hiyo ilisema.
Halmashauri hiyo ilisema kuwa serikali hizo zitasimamia uhifadhi wa misitu. Ardhi, huduma za maji kupambana na mikasa ya moto, dawa za kulevya na picha za ngono.
Taarifa hiyo iliyotiwa sahihi na mwenyekiti wa Halmashauri ya Mpwito ilisema pia serikali za kaunti zinapaswa kuhakikisha kuwa umma umeshirikishwa katika usimamizi wa raslimali za vijiji.
Kulingana na kipengee cha 15 cha katiba ya Kenya, bunge la kitaifa katika muda usiopita miaka mitatu kutoka siku ya uchaguzi linahitajika kuunda sheria za kuhakikisha kuwa serikali za kaunti zimepata uwezo wa kuendeleza shughuli zake.
Aidha kipengee cha 23 kuhusu ugatuzi kinahitaji Halmashauri ya Mpwito kutambua shughuli zitakazotengewa serikali za kaunti kutoka serikali kuu punde to baada ya uchaguzi mkuu. Shughuli hizi zilitayarishwa kupitia hati ya sheria nambari 16 ya 2013.

Katiba katika kipengee cha 24 inatoa masharti ya kufuatwa kabla serikali za kaunti kuanza rasmi shughuli zake za kutoa huduma kwa wananchi.

MASWALI

a) Yape makala haya kichwa mwafaka. (alama 1)

……

……

b) Je, kaunti inawajibikaje katika kuwahudumia wananchi? (alama 2)

……

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……

c) Utawala wa kaunti unaweza kupunguza vipi maafa yanayotokea kutokana na mapuuza ya mwanadamu? (alama 3)

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d) Bunge la kitaifa lina wajibu gani katika serikali ya kaunti. (alama 2)

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e) Ni changamoto zipi zinazoweza kukabili suala la ugatuzi nchini? (alama 3)

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f) Ni kwa njia gani serikali ya kaunti inaweza kufufua uchumi wa nchi na kuinua kiwango cha maisha ioli kufikia ruwaza ya 2030. (alama 2)

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…… g) Eleza maana ya maneno yafuatayo kama yalivyotumika katika ufahamu.

(alama 2)

i) Uchukuzi

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ii) Ugatuzi

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SEHEMU YA B: UFUPISHO: (ALAMA 15)

Soma taarifa ifuatayo kisha ujibu maswali yanayofuata:

Katika safu yangu hii sina lengo la kuzishambulia dini zetu na namuomba Mungu sana asiniandikie dhambi kutokana na ninayotaka kuyaandika. Lakini nashawishika kuikumbusha jamii yangu ambayo inatufanya watu tuzione dini zetu zinamkandamiza mwanamke. Dini zetu kubwa kama Uislamu na Ukristo zinatuelekeza mwanamke kumheshimu mumewe na kumsikiliza anachosema, lakini kwa yeye kufuata maadili ya dini na si kukuambia uue ukakubali.

Wakati dini inasema utekeleze amri ya mumeo na wao wameelezwa mambo ya kuwafanyia wanawake, ikiwa ni pamoja na kuwaheshima na kuwaridhisha kadri ya uwezo wao.

Kutokana na hilo la amri, wanaume wengi ndio wamechukua kama tiketi ya kunyanyasa mwanamke na hata kumnyima fursa ya kujiendeleza kielimu na hata kufanya shughuli za kuongeza kipato. Unakuta familia ni ya kimaskini, baba hana fedha za kutosha kuihudumia familia yake, lakini baba huyo anataka kujishughulisha na shughuli yoyote ya kumuingizia kipato kinachoweza kuwasaidia wote na matokeo yake kuendelea kuwepo, kwenye dimbwi la umasikini. Wengine kwa hofu ya kupata changamoto kutoka kwa wake zao wanawakatalia wanawake walio wao kujiendeleza kielimu au kutafuta mwanamke asiyeelimika ili asiweze kuhoji mambo kadhaa ndani ya nyumba.

Hili limebainishwa hivi karibuni na shirika moja lisilo la kiserikali huko kigoma ambapo katika utafiti wao asilimia 90% ya wanawake wa vijijini wanashindwa kutoa hoja kutokana na uelewa wao duni na kutoa sababu ya kuwa hiyo ni kutokana na ukosefu wa elimu, masuala ya kidini yanayomwelekeza mwanamke kufuata amri za mumewe, mila na desturi kadhaa.

Dini zote zinaeleza wazi umuhimu wa mtu kupata elimu bila kubagua kama ya kiislamu inavyosema; mtu anapata thawabu anapotafuta elimu na anatakiwa aitafute popote bila kujali umbali na hata ikiwezekana kufika China ambapo inaaminika ni mbali.

Sijawahi kuona wala kusikia dini ikisema mwanamke asipate elimu lakini baba zangu na kaka zangu wanaume wanalipotosha hili kutaka kuendelea kumkandamiza mwanamke bila kufikiri kuwa mwanamke ni msaada mkubwa kwao na kwa maendeleo ya taifa lote; ikiwa leo tupo katika harakati za kupata maendeleo na nchi hii hivi kweli tutafanikiwa?

Mapambano ya kuleta maendeleo yaanze katika ngazi ya familia kwa kuondoka kwa ujinga wa kumkandamiza mwanamke ili naye aelimike, aweze kujenga hoja, aweze kujitafutia kipato na mwisho kusaidia katika maendeleo ya

familia ambayo kwa njia nyingine ndiyo maendeleo yenyewe ya taifa hili.
Fupisha aya tano za kwanza. (Maneno 70).

MATAYARISHO

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……Mwanamke anaweza kuendelezwa vipi. Rejelea aya mbili za mwisho. **(Maneno 50)**.

MATAYARISHO

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MA**JIBU**

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3. MATUMIZI YA LUGHA (ALAMA 40)

(a). i) Taja irabu mbili za mbele. (alam 2)

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ii) Andika mifano miwili ya nusu – irabu. (alam2)

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b. Chanagnua sentensi ifuatayo kwa kielelelzo cha matawi. (alama 4)
Mayai viza yatatupwa jalalani.

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c. Tungia maneno yafuatayo sentensi . (alama 4)

i) Kitenzi kishirikishi kipungufu.

……

……

ii) Nomino ya kikundi.

……

……

iii) Kiwakilishi cha pekee cha –enye

……

……

iv) Kivumishi cha nomino.

……

……

d. Tungia vipashio vifuatavyo sentensi moja (alama 4)

i) Shamirisho kipozi.

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ii) Shamirisho kitondo

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iii) Chagizo ya wakati.

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iv) Shamirisho ala.

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e. Andika katika ukubwa. (alama 2)

Mji huu una watu wengi.

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……..

f. Kanusha (alama 2)

i) Mtoto angeota ndoto angeamka.

……

……

ii) Mavitu akifika rafikiye ataondoka.

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……

g) Taja nazali ya kaakaa laini (alama 2)

……

……

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h. Andika katika kinyume (alama1)

Juma alimwoa Frida mwaka jana.

……

……

i. Andika katika usemi wa taarifa (alama 2)

"Hamjambo wanafunzi wangu"mwalimu alisema.

……

……

j) Ngeli ni nini? (alama 1)

……

……

ii) Maneno haya yamo katika ngeli gani? (alama 2)

Tayo

……

……

Kipepeo

……

……

k) Akifisha sentensi hii kwa njia tatu tofauti kuleta dhana tatu tofauti. (alama 3)

Babu alimchapa nyanya

……

……

……

l) Ainisha mofimu katika neno lifuatalo (alama 3)

Sikumkaribisha

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……

(m) Eleza matumizi ya (KI) katika sentensi ifuatayo. Nikienda kwao, nitakipata kile kitoto. (alama 2)

……

……

n) Yakinisha katika nafsi ya pili wingi

sitakusomea kitabu hicho (alama 2)

……

……

……

o) Andika sentensi ifuatayo katika hali ya kutenda (alama 2)

Alikatwa mkono na jizi lile

……

……

4. ISIMU JAMII (ALAMA 10)

Watu wanapozungumza huenda wakafanya makosa ya sarufi na ya kimatamshi hapa na pale, na hata hutumia msamiati vibaya.

(a) Eleza sababu za kufanya makosa haya. (alama 8)

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(b) Makosa kama hayo huathiri vipi mawasiliano. (alama 2)

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DILIGENT STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

JINA: ……..……

SHULE: ……..……

NAMBARI YA USAJILI: ……..……. SAHIHI……..……..… TAREHE: ……

102/3
KISWAHILI
FASIHI.
Muda : Saa 2 ½
OKTOBA

KIDATO CHA TATU

Hati ya Kuhitimu Kisomo cha Sekondari Kenya (K.C.S.E)

MAAGIZO:

a) Andika jina lako na nambari yako ya mtihani katika nafasi ulizoachiwa hapo juu.
b) Tia sahihi yako kisha uandike tarehe ya mtihani katika nafasi ulizoachiwa hapo juu.
*c) Jibu maswali **manne** pekee.*
*d) Swali la **kwanza** ni la **lazima.***
e) Maswali hayo mengine matatu yachaguliwe kutoka sehemu nne zilizobaki; yaani; Riwaya, Tamthilia, Ushairi, Hadithi Fupi .
*f) Majibu yote **lazima** yaandikwe kwa lugha ya Kiswahili*
*g) Karatasi hii ina kurasa **6** zilizopigwa chapwa*
*h) Watahiniwa ni **lazima** wahakikishe kwamba kurasa zote za karatasi hii zimepigwa chapa sawasawa na kuwa maswali yote yamo.*

KWA MATUMIZI YA MTAHINI PEKEE.

Swali	Upeo	Alama
1	20	
	20	
	20	
	20	
Jumla	80	

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SEHEMU A:FASIHI SIMULIZI **(ALAMA 20)**

1. LAZIMA

Hamkuona jinsi tulivyowapiga mabao

Hamkuona vile tuliwachezea kama watoto,tuliwachenga kila mara

Hamkuona waliponea tundu la sindano tungewapiga mabao kumi na mbili

Ingekuwaje timu mbovu kama hii kucheza na miamba kama sisi?

Niliwafunga baada ya sekunde wakati ule nitashindwaje leo?

Maswali

a) i)Tambua kipera kinachodokezwa na maelezo haya na ukifafanue. (alama 2)

ii) Fafanua sifa zozote sita za kipera ulichotambua katika (a) (alama 6)

b) i) Wewe ni miongoni mwa wale wanaotambiwa ngano katika kikao cha utambaji wa ngano.Fafanua mambo sita ambayo unaweza kuchangia ili kufanikisha uwasilishaji wa utambaji. (alama 6)

ii) Umeanza mikakati ya kukusanya data kupitia mbinu ya mahojiano. Eleza changamoto sita ambazo unaweza kukumbana nazo nyanjani. (alama 6)

SEHEMU B:TAMTHILIA

Timothy M.Arege :Bembea ya Maisha

Jibu swali swali la 2 au la

2. Mama!Mamangu mzazi ni mboni ya jicho kwetu.Ananihitaji kipindi hiki cha lala salama.

a) Eleza muktadha wa dondoo hili. (alama 4)

b) Tambua mbinu tatu za lugha zinazojitokeza katika dondoo hili. (alama 3)

c) Fafanua sifa za mhusika ‘***mamangu mzazi’*** ukirejerea tamthlia nzima. (alama6)

d)Fafanua majukumu ya elimu katika jamii kwa mujibu wa tamthlia ya Bembea ya Maisha. (alama 7)

au

3. “Sara: Si neno mama!(kimya).Hakuna kizuri kijacho kwa urahisi.Mazuri hutoka mbali na wakati mwingine yana hadithi za kutisha.Maisha yetu ni mfano wa mbegu iliyopandwa .Mbegu hiyo haina budi kuoza kwanza ndipo ioteshe mche upendezao.”

a) Changanua mtindo katika dondoo hili. (alama 8)

b) “Sasa hali ni tofauti. Tamaduni,mila na desturi zetu zimezidi kuyakubali mabadiliko.”

i) Eleza nafasi ya msemaji wa kauli katika (b),katika kuendeleza tamthilia husika. (alama 6)

ii) Wahusika mbalimbali katika tamthilia ya *Bembea ya Maisha* wamebuni mikakati mwafaka ili kujikomboa kutokana na kauli zilizopigiwa mstari.Fafanua mikakati **sita** kutoka tamthliani. (alama 6)

SEHEMU C: RIWAYA

Clara Momanyi: Nguu za Jadi

Jibu swali la 4 au 5

4. Hakujua akimbilie wapi.Sasa afanye nini?Alilitupia lile jinyama lakini likahepa.Alihisi maisha yake yamo hatarini.

a) Yaweke maneno haya katika muktadha wake. (alama 4)

b) Kwa kutoa mfano,tambua mbinu mbili za lugha katika dondoo hili (alama2)

c) Fafanua umuhimu wa mandhari katika riwaya hii. (alama 6)

d) Jamii ya nchi ya Matuo imesheheni vikwazo ambavyo vinakaa kama nguu,na kutoka jadi nguu hizi zimeathiri kwa upana usawa katika jamii.Tathmini kauli hii kwa hoja **sita.** (alama 6)

au

5. Hivyo,alitaka kubadili hali hata kama ilimaanisha kukitia kichwa chake kinywani mwa simba. Alitaka kuliokoa jahazi lililokuwa likielekea mwambani kwa kasi. Lakini angeliweza vipi kupambana na utandu wa mahasidi hao?

a)) Fafanua umuhimu wa anayerejelewa dondooni katika kukuza na kuendeleza vitushi riwayani. (alama 4)
b) Eleza sababu za mrejelewa kutaka kufaulisha kauli iloyopigiwa mstari. (alama 10)

c) Mwandishi wa riwaya ya Nguu za Jadi amefanikiwa kutumia **mbinu ya majazi** katika kukuza wahusika na mandhari mbalimbali riwayani.Fafanua kwa kutolea mifano **sita**. (alama 6)

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SEHEMU D: USHAIRI

Jibu Swali la 6 au 7

6. *Soma shairi lifuatalo kisha ujibu maswali.*

Barabara.

Barabara bado ni ndefu
Nami tayari nimechoka tiki
Natamani kuketi
Ninyooshe misuli
Nitulize akili

Lakini

Azma yanisukuma
Mbele ikinihimiza kuendelea
Baada ya miinuko na kuruba
Sasa naona unyoofu wake
Unyoofu ambao unatisha zaidi.

Punde natumbukia katika shimo
Nahitaji siha zaidi ili kupanda tena,
Ghafla nakumbuka ilivyosema
Ile sauti zamani kidogo
"Kuwa tayari kupanda na kushuka".

Ingawa nimechoka
Jambo moja li dhahiri
Lazima niifuate barabara
Ingawa machweo yaingia
Nizame na kuibuka

Nipande na kushuka

Jambo moja nakumbuka: Mungu

Je, nimwombe tena? Hadi lini?

Labda amechoshwa na ombaomba zangu

Nashangaa tena!

Kitu kimoja nakiamini

Lazima niendeleee kujitahidi kwa kila hatua mpya

Nijikokote kuiandama hii barabara yenye ukungu

Nikinaswa na kujinasua,

Yumkini nitafika mwisho wake

Ikiwa wangu mwisho haitauwahi kabla.

(Timothy Arege)

Maswali:

(a) Taja aina ya shairi hili. (alama 2)

(b) Eleza toni ya shairi hili. (alama 2)

(c) Fafanua dhamira ya shairi hili. (alama 2)

(d) Bainisha vipengele vifuatavyo vya kimtindo katika shairi hili. (alama 3)

(i) Tanakuzi

(ii) mbinu rejeshi

(iii) Taswira

(e) Eleza umuhimu wa maswali balagha katika shairi. (alama 2)

(f) Andika ubeti wa mwisho kwa lugha nathari. (alama 4)

(g) Eleza matumizi ya mistari mishata katika shairi hili. (alama 2)

(h) Eleza muundo wa shairi hili. (alama 3)

AU

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7. Soma shairi hili kisha uyajibu maswali;

Jicho, tavumiliaje, kwa hayo unayo?

Kicho, utasubirije, maonevu yapitayo?

Kwacho, lijalo nalije, nimechoka vumiliyo

Naandika!

Moyo, unao timbuko, maudhi tusikiayo

Nayo, visa na mauko, wanyonge yawakutayo,

Kwayo, sina zuiliko, natoa niyahisiyo

Naandika!

Hawa, wanatumuliya, dhiki wavumiliayo

Hawa, mamiya, na mali wazalishayo

Hawa, ndo wanaumiya, na mafia wakutayo

Naandika!

Hawa, sioni wengine, kwao liko angamiyo

Hawa, huwapa unene, watukufu wenye nayo

Hawa, bado ni wavune, kwa shida waitikayo

Naandika!

Bado, wawapo mabwana, wenye pupa na kamiyo

Bado, tofauti sana, kwa pato na mengineyo

Bado, tuling'owe shina, ulaji pia na choyo.

Naandika!

Maswali

a) Malenga wa shairi hili alidhamiria kufafanua masuala kadhaa yanayokumba Jamii.Taja **manne** ya masuala haya kwa kurejerea shairi. (alama 4)

b) Tambua bahari za shairi hili kwa kuzingatia vigezo vifuatavyo; (alama 4)

i) vina

ii) kibwagizo

iii) idadi ya vipande

iv) mishororo

c) Kwa kutoa mifano,tambua mbinu **mbili** ambazo mshairi ametumia kutosheleza mahitaji ya kiarudhi. (alama2)

d) Tambua kwa mifano mbinu **mbili** za kimtindo alizotumia mshairi. (alama4)

e) Andika ubeti wa **nne** katika lugha nathari. (alama 4)

f)Tambua na ueleze toni katika shairi hili. (alama 2)

SEHEMU E: HADITHI FUPI

D.Lutomia na Phibbian Muthama: *Mapambazuko ya Machweo na Hadithi Nyingine*

8.***Fadhila za Punda***

Alipozidiwa akapoteza fahamu.Fahamu zilipomrudia,maumivu yakamvamia.Mumewe hakuonekana,amejiendea na kumwaacha afilie mbali.Alilia machozi yakamwisha.

a)Eleza muktadha wa dondoo hili. (alama 4)

b)Taja mbinu **mbili** za lugha zilizotumika katika dondoo hili. (alama 4)

c)Fafanua mbinu **nne** za kutambua sifa za mhusika anayerejelewa. (alama 4)

d)Kwa kurejelea hadithi “Fadhila za punda” onyesha kwa hoja **nane** ufaafu wa mdokezo wa methali ufuatao: ***maskini akipata makalio hulia bwata*** kwa kutolea mifano mwafaka hadithini. (alama 8)

HUU NDIO UKURASA WA MWISHO ULIOPIGWA CHAPA

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DILIGENT STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

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

END OF YEAR EXAM (OCTOBER)
TIME: 2 ½ HOURS
MATHEMATICS
FORM THREE
PAPER ONE

SECTION I (attempt all questions)

1. Use logarithm tables in all your steps to evaluate:

leaving your answer to four decimal places (4mks)

$$\sqrt[3]{\frac{38.32 \times 12.964}{86.37 \times 6.285}}$$

2. When a certain number ***x*** is divided by 30, 45 or 54, there is always a remainder of 21.
Find the least value of the number ***x*** (3mks)

3. Find the value of ***x*** *(3mks)*

$2^{(x-3)} \times 8^{(x+2)} = 128$

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4. Evaluate without using a calculator (3mks)

$$\frac{\left(1\frac{3}{7}-\frac{5}{8}\right)\times\frac{2}{3}}{\frac{3}{4}+1\frac{5}{7}\div\frac{4}{7}of\,2\frac{1}{3}}$$

5. Without using tables and calculators, evaluate

$$\sqrt[3]{\frac{0.032+0.0608}{1.28\times0.4}}$$ (3mks)

6. Use tables of squares, square roots and reciprocals to evaluate correct to 4 s.f

$$\frac{3}{\sqrt{0.0136}} - \frac{2}{(3.72)2}$$ (3mks)

7. Simplify the following expressions by reducing it to a single fraction

$$4 \quad \frac{2x - 5}{3} - \frac{1 - x}{2} - \frac{x - 4}{}$$

(3mks)

8. Foreign exchange on 27/5/2010 was given as follows:

Currency	**Buying** (Kshs)	**Selling** (Kshs)
1 Euro	84.15	84.26
1 Sterling pound	118.35	121.47

A tourist came to Kenya from London with 6000 Euros which he converted to Kenya shillings at a bank. While in Kenya he spent a total of Kshs.300,000 then converted the balance into sterling pounds at the Same bank.

Calculate the amount in sterling pounds he received (4 mks)

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9. Sixteen men working at the rate of 9hrs a day can complete a piece of work in 14 days.
How many more men working at the rate of 7 hours a day would complete the same job in 12 days?(3mks)

10. Solve the equation;(3mks)

$9^{x+1} + 3^{2x+1} = 36$

11, A triangle ABC is formed by the points A (3,4), B (-7,2), and C (1,-2).
(a) Find the coordinates of the mid-points *k* of AB and *p* of AC (1 mk)

(b) Find the equation of the perpendicular bisector of the line *kp* (2 mks)

12. Two similar cans have different heights 8cm and the other one 10cm. If the surface area of the larger can is $480cm^2$, find the surface area of the smaller can. (3 marks)

13.Find the value of x that satisfies the equation $\log (2x - 11) - \log 2 = \log 3 - \log x$(3 marks)

14. A metal hemisphere of radius 12cm is melted done and recast into the shape of a cone of base radius 6cm. Find the perpendicular height of the cone (3mks)

15,Solve the inequality and show the solution on the number line.(3mks)

$3 - 2x \angle x \angle 2x + 5$

16 .The angle of elevation of the top of a tree from a point P on the horizontal ground is24.5°. From another point Q, five metres nearer to the base of the tree, the angle of elevation of the top of the tree is 33.2°. Calculate to one decimal place, the height of the tree (3mks)

.

SECTION II (attempt any five)

17.Senjeni and Mkimwa entered into a business partnership in which they contributed ksh. 120,000 and ksh 150,000 every year respectively. After one year, Kuku joined the business and contributed ksh. 90,000.

(a)Calculate the ratio of their investment after 3 years of business (3mks)

(b)It was agreed that 30% of the profits after 3 years be used to cater for the cost of running the business, while the remaining would be shared proportionally. Calculate each person's share, if the profit made after three years was ksh. 187,000 (4mks)

(c)If each of them invested their shares back in the business, find their new individual investments at the beginning of the fourth year (3mks)

18 .A square floor is fitted with rectangular tiles of periemeter 220 cm. each row (tile length wise) carries 20 less tiles than each column (tiles breadth wise). If the length of the floor is 9.6 m.
Calculate:

a. The dimensions of the tiles (6 marks)

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b. The number of tiles needed (2 marks)

c. The cost of fitting the tiles, if tiles are sold in dozens at sh. 1500 per dozen and the labour cost is sh. 3000 (2 marks)

19.Three town P,Q and R are such that P is on a bearing of 120° and 20 km from Q. Town R is on bearing of 220^{o} and 12km from P

a) Using a scale of 1 cm to 2 km, draw and locate the positions of the three towns. (3mks)

b) Measure

i) the distance between Q and R in kilometres. (2mks)

ii)the bearing of P from R. (1mk)

iii)the bearing of R from Q. (2mks)

c)Calculate the area of the figure bounded by PQR. (2mks)

20.The information below shows the entries in a surveyor's field book after a survey of a farm.
XY = 280m is the baseline. All measurements are in metres

	280	**Y**
B 105	230	110E
	190	
	160	45E
A 100	90	
	40	95G
X	O	

(a) Use a scale of 1cm represents 20m to draw the map of the farm (5mks)

(b) Estimate the area of the farm in hectares (5mks)

21. Triangle PQR has vertices P(3,2), Q(-1,1) and R(-3,-1).

(a) Draw PQR on the grid provided. (1mk)

(b) Under a rotation the vertices of $P^1Q^1R^1$ are $P^1(1,4)$, $Q^1(2,0)$ and $R^1(4,-1)$. Find the centre and angle of rotation using points P and Q. (4mks)

(c) Triangle PQR is enlarged with scale factor 3 centreO(0,0) to give triangle $P^2Q^2R^2$. Draw triangle $P^2Q^2R^2$ and state its co-ordinates. (2mks)

(d) Triangle $P^1Q^1R^1$ undergoes reflection in line y = -x to give triangle $P^3Q^3R^3$. Draw $P^3Q^3R^3$ and state its coordinates.

22 The results of a mathematics test that a hundred students took are as shown below:-

Marks	No. of students
30-34	4

35-39	6
40-44	10
45-49	14
50-54	**X**
55-59	24
60-64	14
65-69	6

(a) Determine

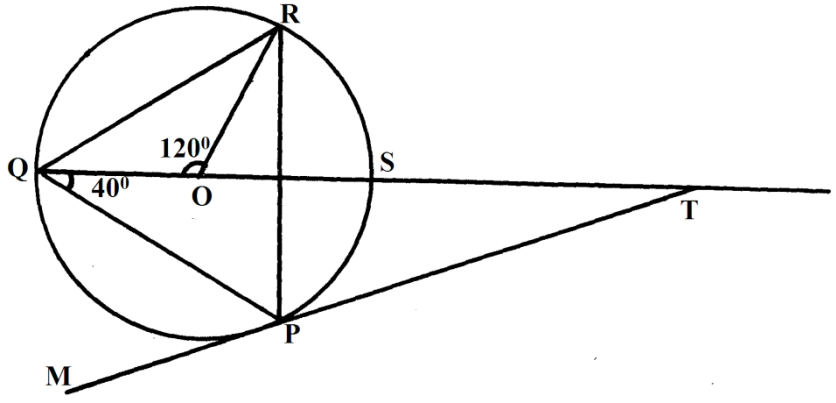
(i) the value of **X** (1mk)

(ii) The modal class(2mks)

(b) Calculate the mean(4mks)

(c) The median (3mks)

23.In the figure below PQR and S are points on the circumference of a circle centre O. The point TSO and Q lie on a straight line MPT is a tangent to the circle at P.



Find the values of the following angles stating reasons in each case.

(a) ∠SRP (2mks)

(b) ∠ORP (2mks)

(c) ∠RPT (2mk)

(d) ∠STP (2mks)

(e) ∠QPM (2mks)

24.A country bus left Nairobi at 10.45a.m and traveled towards Mombasa at an average speed of 60km/h. A matatu left Nairobi at 1:15p.m on the same day and traveled along the same road at an average speed of 100km/h. The distance between Nairobi and Mombasa is 500km.
(a) Determine the time of the day when the matatu overtook the bus (5mks)

(b) Both vehicles continue towards Mombasa at their original speeds. How long had the matatuwaited before the bus arrived? (5mks)

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DILIGENT STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

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

MATHEMATICS

FORM THREE PAPER TWO

END OF YEAR EXAM (OCTOBER)

TIME: 2 ½ HOURS

SECTION A (50MARKS); ANSWER ALL QUESTIONS IN THIS SECTION

1. Evaluate using logarithms (4marks)

$$\sqrt{\frac{4.283 \times (0.009478)^2}{\text{Log } 9.814}}$$

2. In this question mathematical tables or calculator should not used. The base and perpendicular height of a triangle measured to the nearest centimetres are 12cm and 8cm respectively; Find ;
   (a) the absolute error in calculating the area of the triangle (2marks)

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b) the percentage error in the area, giving the answer to 1 decimal place (2marks)

3. Make **L** the subject in : (3marks)

$$H \overset{3}{=} \sqrt{\left(\frac{3d\,(L-d)}{10L}\right)}$$

4. A bag contains 10balls of which 3 are red, 5 are white and 2 are green. Another bag contains 12balls of which 4 are red, 3 are white and 5 are green. A bag is chosen at random and then a ball chosen at random from the bag. Find the probability that the ball so chosen is red
(3marks)

5. The sum of interior angles of two regular polygons of sides n and n + 2 are in the ratio 3:4. Calculate the sum of the interior angles of the polygon with n sides (3marks)

6. Five year ago, a mother's age was four times that of her daughter. In four years to come,

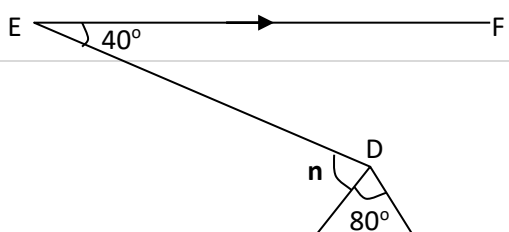
she will be 2 ½ times the age of her daughter. Calculate the sum of their present ages. (3mark)

7. Solve for x if -¼ sin (2x + 30) = 0.1607, $0 \leq x \geq 360^0$ (3mks)

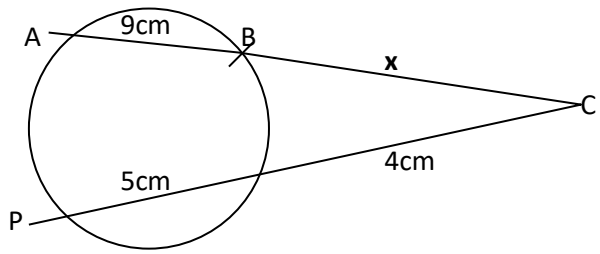
8. Given that $\sqrt{3} = 1.7321$, express in surd form, rationalize the denominator and then find the value of the expression below to 5 significant figures without using the calculator.(3mks)

$$\frac{2 - \tan 60^0}{3 - 2\cos 30^0}$$

9. Giving reason, find the angle marked **n** (3marks)



10. The figure below shows a circle centre O. AB and PQ are chords intersecting externally at a point C. AB = 9cm, PQ = 5cm and QC = 4cm. Find the value of **x** **(**2marks)



11. Use matrix method to solve the (3mks)

$3y + 2x = 13$

$2y - 3x = 0$

12. The resistance of an electrical conductor is partly constant and partly varies as the temperature. When the temperature is 20^oC, the resistance is 55 ohms. When the temperature is 28^oC, the

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resistance is 58 ohms. Find the resistance when the temperature is 60^{o}C
(3marks)

13. (a) Expand and simplify the binomial expression $(2 + x)^5$ upto the term in x^3. (2mks)

(b) Use your expression to estimate $(1.97)^5$ correct to 4 s.f. (2mks)

14. A mixture contains two powders X and Y with masses in the ratio 3:11. If the mixtures Cost Shs.6.70 per kg and powder x costs Shs.5.60 per kg. Find the cost of 1kg of powder Y (3marks)

15. Given that O is the origin, OA = 3i + 2j – 4k and OB = 6i + 11j + 2k. If **x** divides AB in the ratio1:2, find the modulus of OX to 2d.p (3marks)

16. The equation of a circle is given as $2x^2 + 2y^2 - 8x + 5y + 10 = 0$. Find the radius of the circle and the coordinates of its centre. (3marks)

SECTION B (50MARKS) ANSWER ANY 5 QUESTIONS IN THIS SCTION

17. A youth group decided to raise Ksh 480,000 to buy a piece of land costing Ksh. 80,000 per hectare. Before the actual payment was made, four of the members pulled out and each of those remaining had to pay an additional Kshs. 20,000.
    (a) If the original number of the group members was **x**, write down;
    (i) An expression of how much each was to contribute originally. (1mark)

    (ii) An expression of how the remaining members were to contribute after the four pulled out. (2marks)

    (b) Determine the number of members who actually contributed towards the purchase of the land. (4marks)

(c) Calculate the ratio of the supposed original contribution to the new contribution. (2marks)

(d) If the land was sub-divided equally, find the size of land each member got. (1 marks)

18. a) Two pipes **A** and **B** can fill a tank in 3hrs and 4 hrs respectively. Pipe **C** can empty the full tank in 6 hrs.

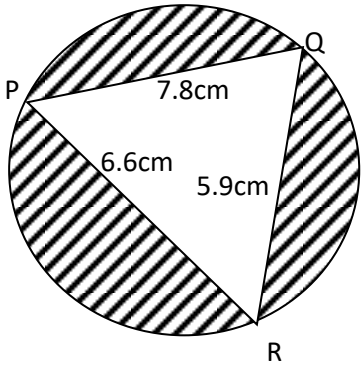
i) How long would it take pipes **A** and **B** to fill the tank if pipe **C** is closed(3marks)

ii) Starting with an empty tank, how long would it take to fill the tank with all pipes running? (3marks)

b) The high quality Ken coffee is a mixture of pure Arabica coffee and pure Robusta coffee in the ratio 1 : 3 by mass. Pure Arabica coffee costs shs. 180 per kg and pure Robusta coffee costs sh 120 per kg. Calculate the percentage profit when the coffee is sold at sh 162 per kg (4marks)

19. Triangle **PQR** is inscribed in he circle **PQ**= 7.8cm, **PR** = 6.6cm and **QR** = 5.9cm. Find:

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(a) The radius of the circle, correct to one decimal place (3marks)

(b) The angles of the triangle (3marks)

(c) The area of shaded region (4marks)

20. The probability that a boy goes to school by bus is $^1/_3$ and by matatu is ½. If he uses a bus, the probability that he is late to school is $^1/_5$ and if he uses a matatu, the probability of bein late is $^3/_{10}$. If he uses other means of transport, the probability of being late is $^1/_{20}$

(a) Draw a probability tree diagram to represent this information (3marks)

(b) What is the probability that he will be late for school (2marks)

(c) What is the probability that he will be late for school if he does not use a matatu 3marks

(d) What is the probability that he is not late for school (2marks)

21. (a) Fill in the table below for the function **$y = -6 + x + 4x^2 + x^3$ for $-4 \leq x \leq 2$** **(**2marks)

x	-4	-3	-2	-1	0	1	2
-6	-6	-6	-6	-6	-6	-6	-6
x	-4	-3	-2	-1	0	1	2
$4x^2$			16			4	
x^3							
y							

(b) Using the grid provided draw the graph for $y = -6 + x + 4x^2 + x^3$ for $-4 \leq x \leq 2$ 3marks

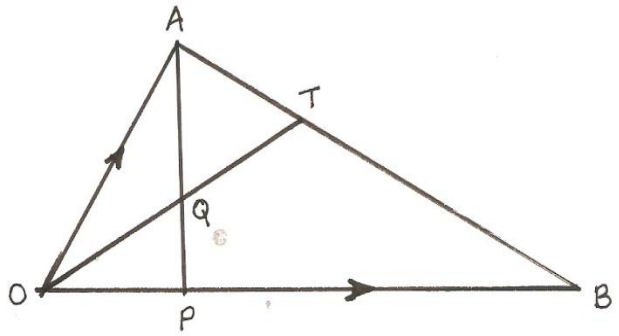
(c) Use the graph to solve the equations:-

(i) $x^3 + 4x^2 + x - 4 = 0$ (1mark)

(ii) $-6 + x + 4x^2 + x^3 = 0$ (2marks)

(iii) $-2 + 4x^2 + x^3 = 0$ (2marks)

22. In the figure below OA = a and OB = b. Points P and T divide $\overline{OB}$ *and* $\overline{AB}$ internally in the ration 2:3 and 1:3 respectively. Lines $\overline{OT}$ *and* $\overline{AP}$ meet at Q.



Find in terms of $\underset{\sim}{a}$ *and* $\underset{\sim}{b}$

(i) $\underset{\sim}{OT}$ (2mks)

(ii) $\underset{\sim}{OP}$ (1mark)

(iii) $\underset{\sim}{AP}$ (1mk)

If OQ = kOT and AQ = hAP where k and h are constants express OQ in two different ways and hence find the values of h and k. (5marks)

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23. Income tax for all the income earned was charged at the rates shown.

Total Income p.a (K.£)	Rate in sh per K£
1 – 1980	2
1981 – 3960	3
3961 – 6440	5
6441 – 7920	7
7921 – 9900	9
Excess of 9900	10

(a) Wanyonyi earned a salary of Kshs.10,500 per month. In addition he was given a house allowance of Kshs. 6500 per month. He got tax relief of Kshs. 300 per month.

Find ; (i) His taxable income p.a (2marks)

(ii) Income tax he pays per month. (5marks)

(b) A part from income tax the following deductions are made per month. NHIF of Kshs.320, widow and pension scheme of 2% of his gross salary. Calculate his net monthly pay.
(3marks)

24. The coordinates of the points P and Q are (1, -2) and (4, 10) respectively. A point T divides the line PQ in the ratio 2: 1

i) Determine the coordinates of T (2marks)

ii) Find the gradient of a line perpendicular to PQ (2marks)

iii) Hence determine the equation of the line perpendicular PQ and passing through T (3marks)

iv) If the line meets the y- axis at R, calculate the distance TR, to three significant figures(3marks)

DILIGENT STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

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

END OF YEAR EXAM (OCTOBER)

TIME: 2 HOURS

FORM 3

232/1

PHYSICS

Paper 1(THEORY)

INSTRUCTIONS TO CANDIDATES:-

- *Write your **name**, **admission number**, **date** and **sign** in the spaces provided.*
- *Answer **ALL** the questions in section **A** and **B** in the spaces provided.*
- ***ALL** working **MUST** be clearly shown.*
- *Mathematical tables and electronic calculators may be used*

For Examiners' Use Only:

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATE'S SCORE
A	1 – 12	25	
B	12	12	
	13	09	
	14	12	
	15	14	
	16	08	
TOTAL SCORE		**80**	

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SECTION A (25MARKS)

Answer all questions in this section.

1. Explain why potatoes cook more faster in a sufuria with a tight lid than in an open one (1mk)

   …….

   …….

2. A spring is stretched by 1.5cm by a force of 2N. Calculate the amount of elastic potential energy stored by the spring (3mks)

   …….

   …….

3. State two factors that affect the stability of an object (2mks)

   …….

   …….

4. When a mercury thermometer is used to measure the temperature of hot water it is observed that the mercury level first drops before beginning to rise. Explain this observation (2mks)

   …….

   …….

5. A bubble of air has a diameter of 2.0mm. Whenit is 0.5m below the water surface of a boiler. Calculate the diameter of the bubble as it reaches the surface assuming that the temperature remains constant (take g= $10Nkg^{-1}$), density of water = 10^3kgm^{-3} and atmospheric pressure= $10\ ^5{}_{NM}{}^{-2}$) (4mks)

   …….

   …….

   …….

   …….

6. Explain the effects of increase in frictional force in a machine to its efficiency. (1mk)

   …….

   …….

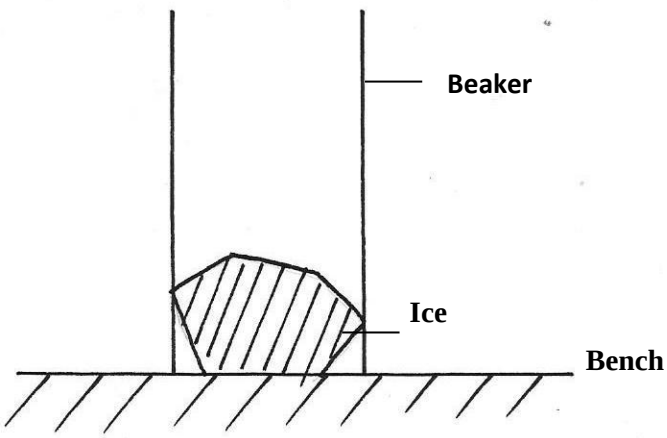
7. Draw a sketch of a micrometer screw gauge showing a reading of 8.33mm (2mks)

8. A liquid flows a long a horizontal pipe of cross sectional area of $24cm^3$ with a speed of $3ms^{-1}$. The speed increases to $9ms^{-1}$. Where there is a constriction calculate the cross sectional area of the constriction (3mks)

   …….

   …….

9. The figure below shows a beaker placed on a bench. A block of ice is placed in the beaker as shown

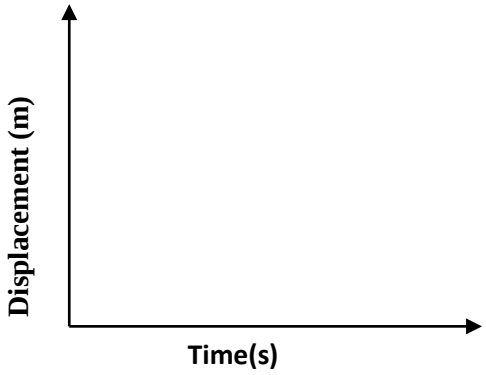


State and explain the change in the stability of the beaker when the ice melts (2mks)

……

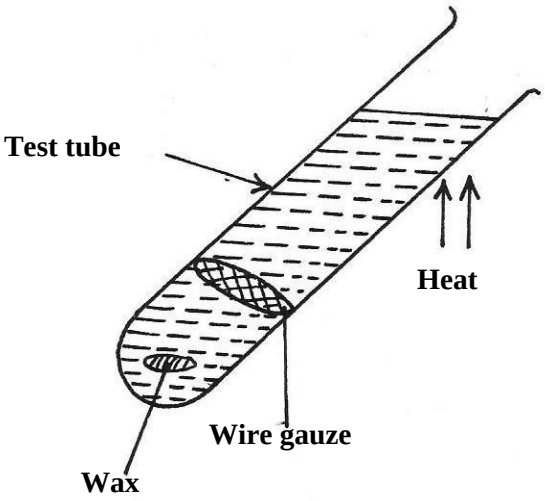
……

10. On the axes provided below sketch displacement-time graph for a body moving with uniform retardation.



(1mk)

11. The figure below shows water in a test tube heated over a long time



(a) State and explain the observation made on the wax (2mks)

……..

……..

(b) State and explain the observation when the position of the wax and the flame are interchanged.

(2mrks)

.....

.....

SECTION B(55MARKS)

12. In an experiment to determine the specific latent heat of vaporization of water, steam at 100^{o}C was passed into water contained in a well lagged calorimeter.

The following measurements were taken

Mass of calorimeter=50g

Initial temperature of water=5^{o}C

Initial mass of water = 70g

Final mass of calorimeter +water +condensed steam=132g

Final temperature of mixture =30oC

Specific heat capacity of water=4200Jkg-1K-1

Specific heat capacity of calorimeter=3900J

(a) Determine the

(i) Mass of condensed steam (3mks)

……

……

.....

(ii) Heat gained by calorimeter and water (3mks)

……

(b) Given that $\mathbf{L_v}$ is the specific latent heat of vaporisation of steam

(i) Write an expression for the heat given out by the steam (2mks)

……

.....

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(ii) Determine the value of $\mathbf{L_v}$ (4mks)

…….

13. (a) A bicycle has wheels 66cm in diameter its crank wheel has 44 teeth and the rear sprocket 16 teeth. The crank radius is 16.5cm

(i) Determine the radius of the rear sprocket (3mks)

…….

…….

(ii) The bicycle moves when the rear sprocket is made to move. Hence determine the velocity ratio.

…….

(b) A man uses a block and tackle mechanism of velocity ratio 6 to lift a car engine smoothly through a height of 1m in 5 sec. The man applies a force of 300N while the mass of the engine is 120kg. Determine

(i) The mechanical advantage of the pulley system (3mks)

…….

…….

(ii) Its efficiency (3mks)

…….

…….

14. (a) State

(i) Boyle's law (1mk)

…….

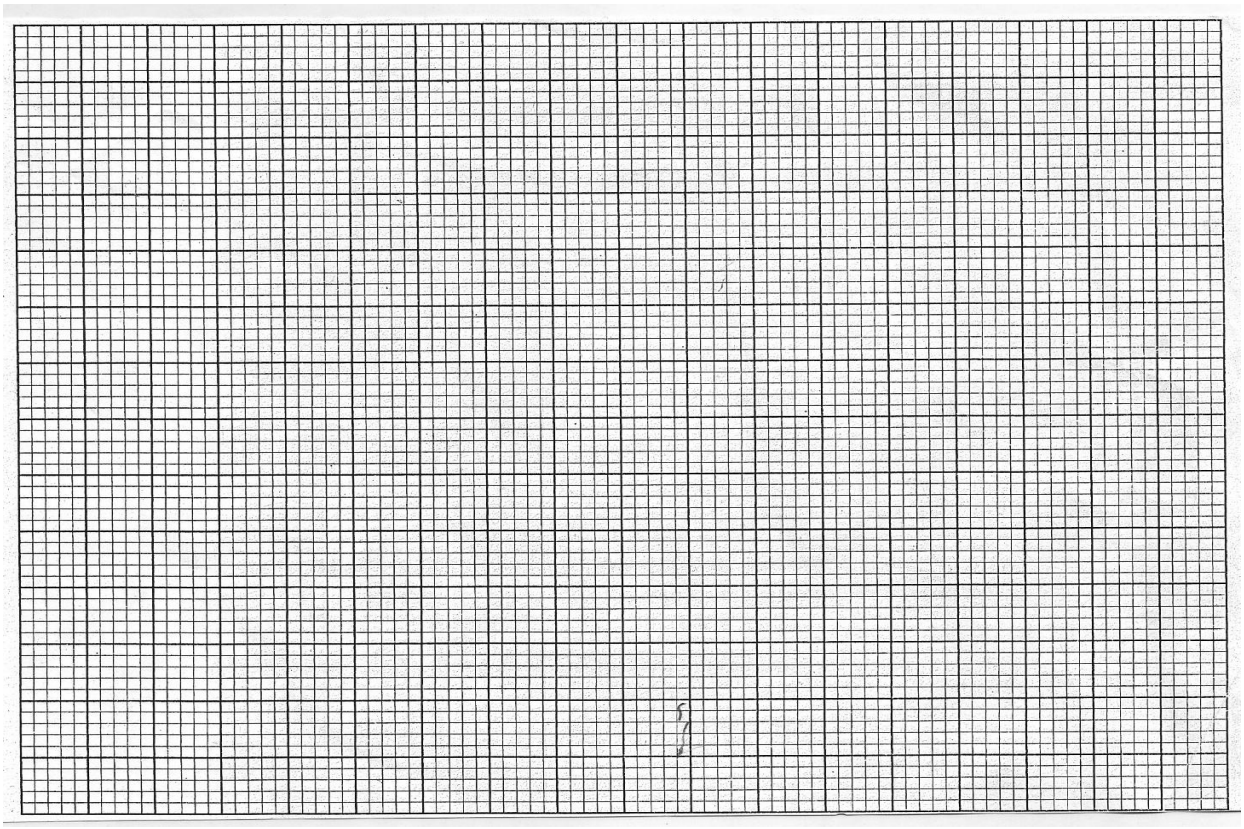
(ii) Charles law (1mk)

…….

(b) A form three student carried out an experiment on one of the gas laws she obtained the following results.

Temperature (°C)	10	35	60	80	90	110
Volume v(cm3)	5	5.8	6.4	7.0	7.2	7.8

(i) Plot a graph of V (y-axis) against temperature. (5mks)



(i) Suggest how the temperature of the gas could be kept constant (1mk)

……

……

(ii) Given that the relationship between **P** and **V** is given by PV=k. where k is a constant use the graph to determine the value of **k** (4mks)

……

……

15. (a)State the three equations of linear motion (3mks)

……

……

……

(b) A car is travelling uniformly at 100km/hr. When the driver observes a road block ahead, he takes 0.5 sec before applying brakes which brings the car to rest with a uniform deceleration of $4MS^{-2}$. Determine the distance travelled by the car from the time the driver observed the road block until the car comes to rest. (4mks)

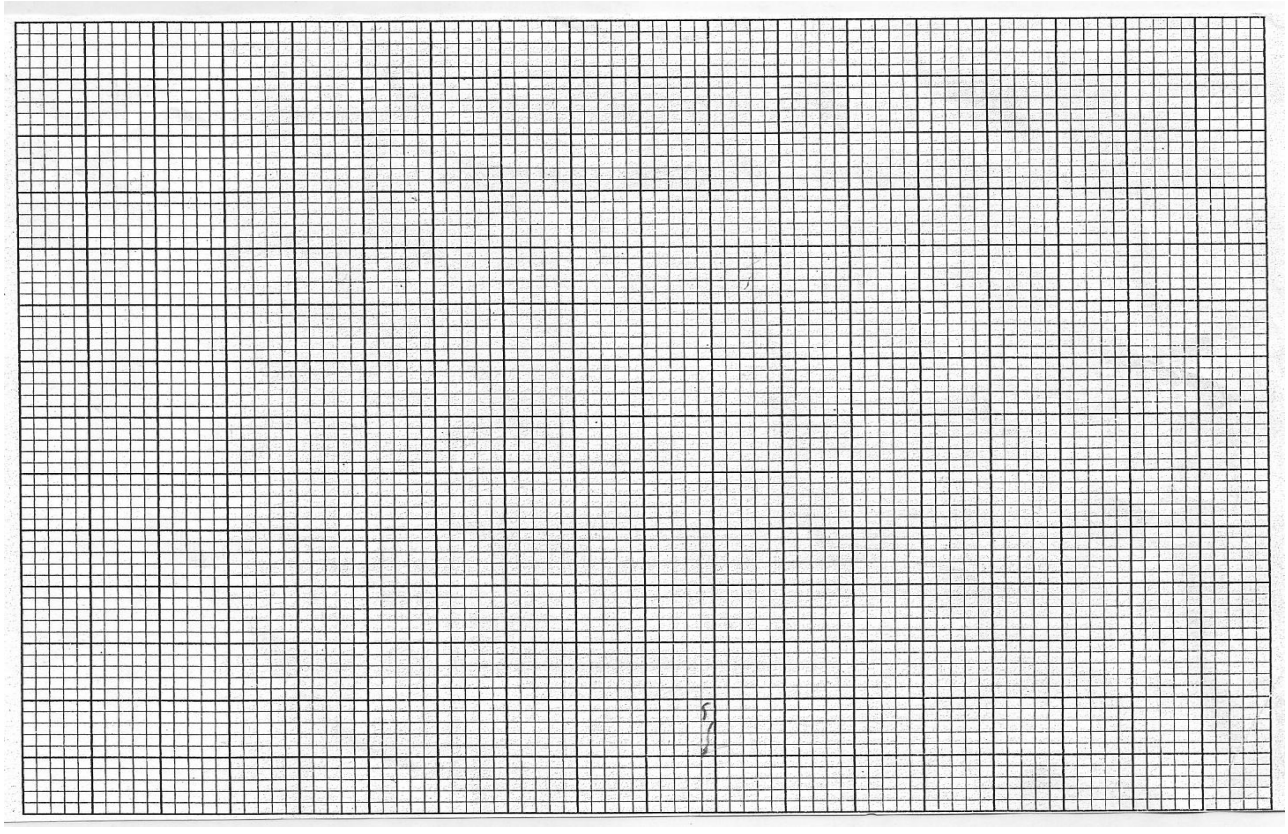
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(c) A car moves at a constant speed of $20MS^{-1}$ for 50 sec and then accelerates uniformly to a speed of $25MS^{-1}$ over a period of 10sec. This speed is maintained for 50 sec before the car is brought to rest with uniform deceleration in 15 seconds.

(i) Sketch a graph of velocity (y-axis) against time (on graph paper provided) (3mks)



(a) From the graph determine the everage speed for the whole journey (3mks)

……

……

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(b) The acceleration when the velocity changes from $20ms^{-1}$ to $25ms^{-1}$ (2mks)

……

……

16. (a) State the law of conservation of linear momentum (1mk)

……

……

(b) A lorry has a mass of 10,000kg initially travelling at a velocity of $10MS^{-1}$ collides with a car of mass 2000kg travelling in the opposite direction at a velocity $20MS^{-1}$. The two vehicles move together after impact through a distance of 20m before coming to rest.

(i) Determine the acceleration of the system after the collision (4mks)

……

……

(ii) What is the impulsive force on the car given the collision lasts two seconds (3mks)

……

……

DILIGENT STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

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

FORM 3

232/2

PHYSICS Paper 2

END OF YEAR EXAM (OCTOBER)

TIME: 2 HOURS

INSTRUCTIONS TO THE CANDIDATES:

*(a) Write your **name** and **admissionnumber , date** and **sign** in the spaces provided.*

*(b) Answer **ALL** the questions in section **A** and **B** in the spaces provided.*

*(c) All working **must** be clearly shown in the spaces provided.*

(d) Non programmable silent electronic calculator and KNEC mathematical tables may be used.

For Examiners' Use Only

SECTION	QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
A	1-11	25	
B	12	13	
	13	14	
	14	11	
	15	0	
	16	13	
	18	09	

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	TOTAL SCORE	**80**	

SECTION A (25MARKS)

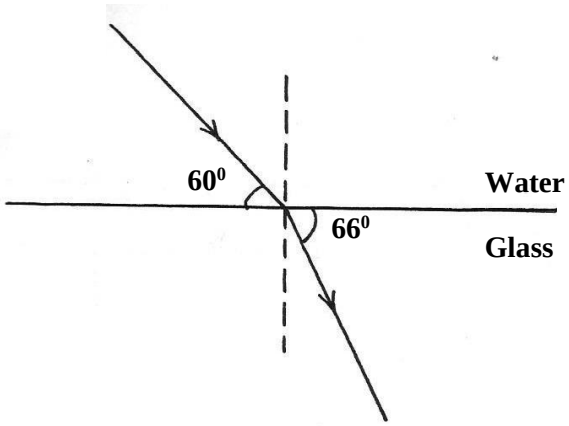
Answer all questions in this section.

1. Convex mirrors are used in cars as drivingmirrors because they have a wide field of view. Sketch a labelled diagram to show the wide field view (2mks)

……

……

2. The figure below shows a ray of lift travelling through water and glass. The refractive index of water is 1.33



Determine the refractive index of glass (3mks)

……

……

……

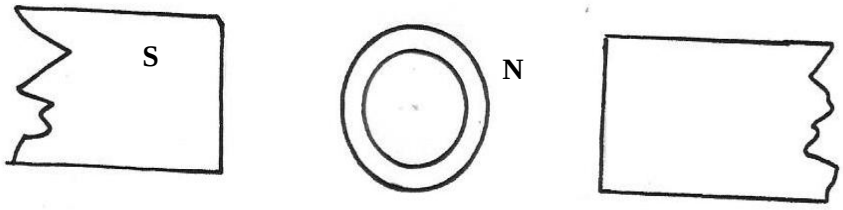
3. A girl standing 600m away from a cliff bangs two pieces of wood together and hears an echo 3.5seconds later. Determine the speed of sound in air at that place. (3mks)

……

……

4. Figure below shows a soft iron ring placed between two magnetic bars

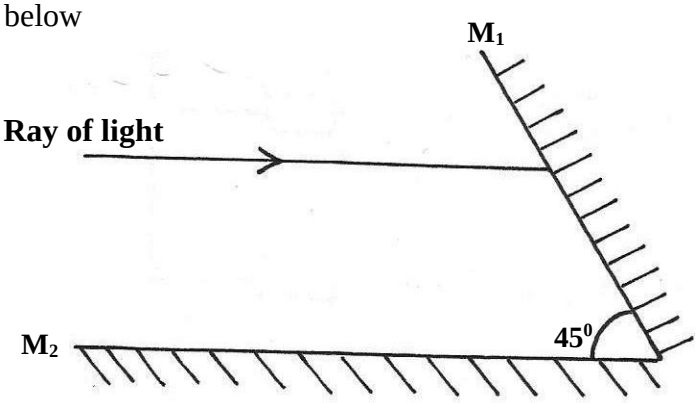
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State **one** application where the principle above can be used. (1mk)

……

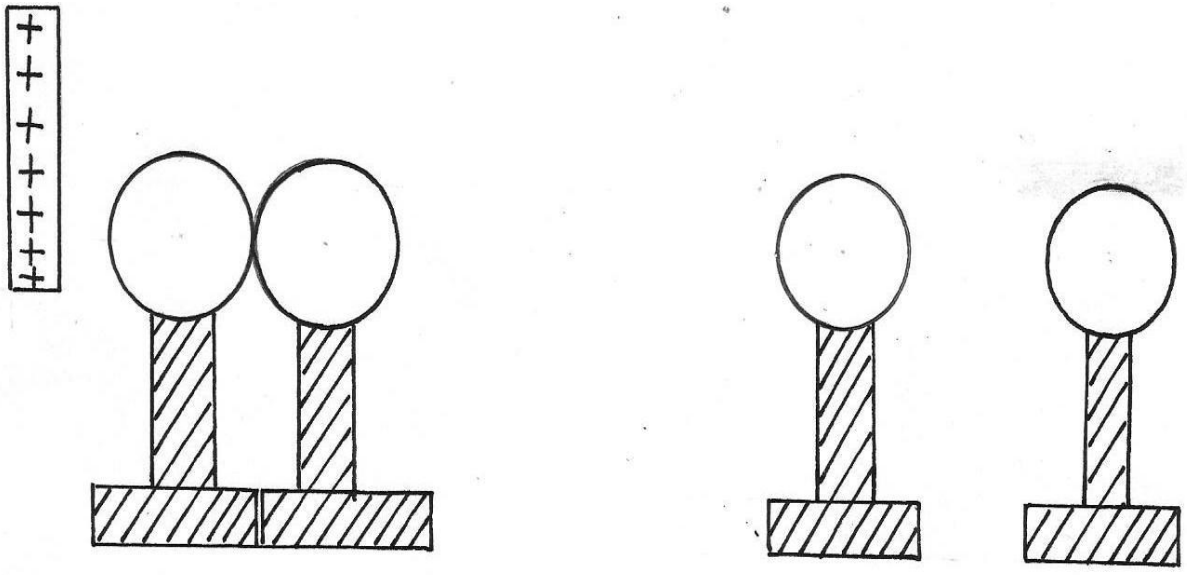
5. Two plane mirrors M_1 and M_2 are inclined to each other and a ray of light is shone on M1 as shown in the figure below



Show on the diagram the path followed by the ray until it reflected by **M_2** (2mks)

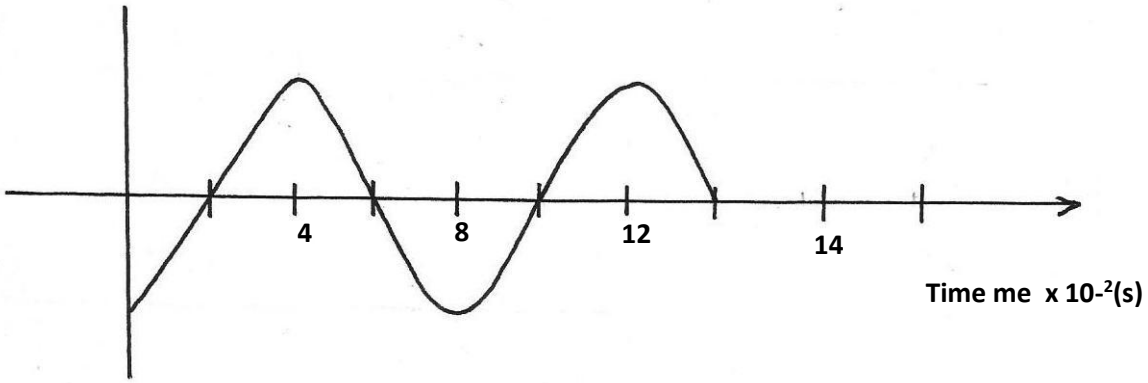
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6. Two metallic spheres A and B stand in contact as shown. A positively charged rod is held near sphere A. Show the charges on each sphere when the metallic balls are separated and the rod is



removed

7. The wave shown in the diagram below has a velocity of 125m/s



Determine the wavelength of the wave (3mks)

……

……

8. State two factors to consider for recharging an accumulator (2mks)

……

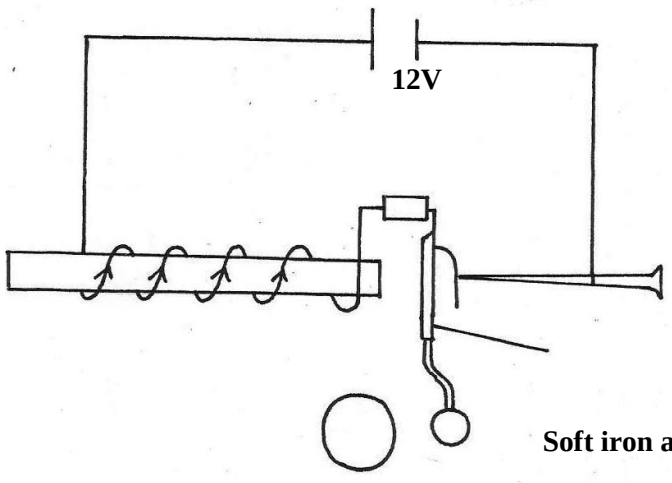
……

9. Differentiate between electromotive force and potential difference (2mks)

……

……

10. The figure below shows an electric bell



(a) Describe how the bell works (3mks)

……

……

(b) What adjustment should be done to the system to make it operate effectively with lower voltage battery? (1mk)

……

……

11. State the advantage of the lead acid accumulator over a lenchlanche cell (1mk)

……

SECTION B(55MARKS)

Answer all questions in this section

12. (a) (i) State the law of magnetism (1mk)

……

……

(ii) Repulsion is the surest test for polarity of a magnet. Explain (2mks)

……

……

(iii) State the difference between magnetic properties of steel and soft iron (1mk)

……

……

(iv) Asteel bar was being magnetized by electrical method. It wasnoted that the strength of the magnet depended on the amount of current. The current was increased steadily until it was noted that the strength of the magnet could not increase further .Explain the observation (2mks)

……

……

……

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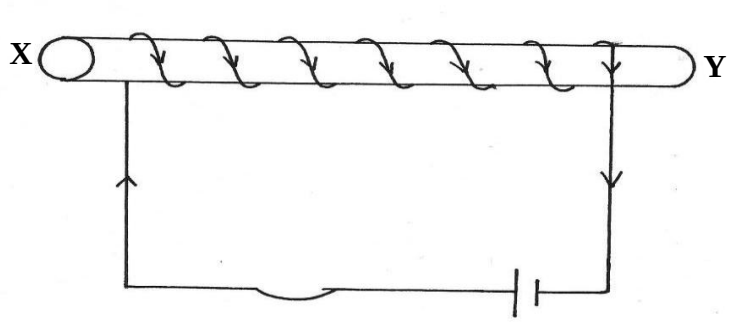
……

(v) State **two** ways of demagnetizing a magnet (2mks)

……

……

(b) Study the figure below and answer the questions that follow



(i) Show, using arrows the direction of the electric current on the solenoid if the switch **S** is closed (1mk)

……

……

(ii) When the switch S is closed, the solenoid becomes magnetized. State the magnetic poles at

X……

Y…….....

(iii) State **two** ways of increasing the strength of the electro magnet (2mks)

……

……

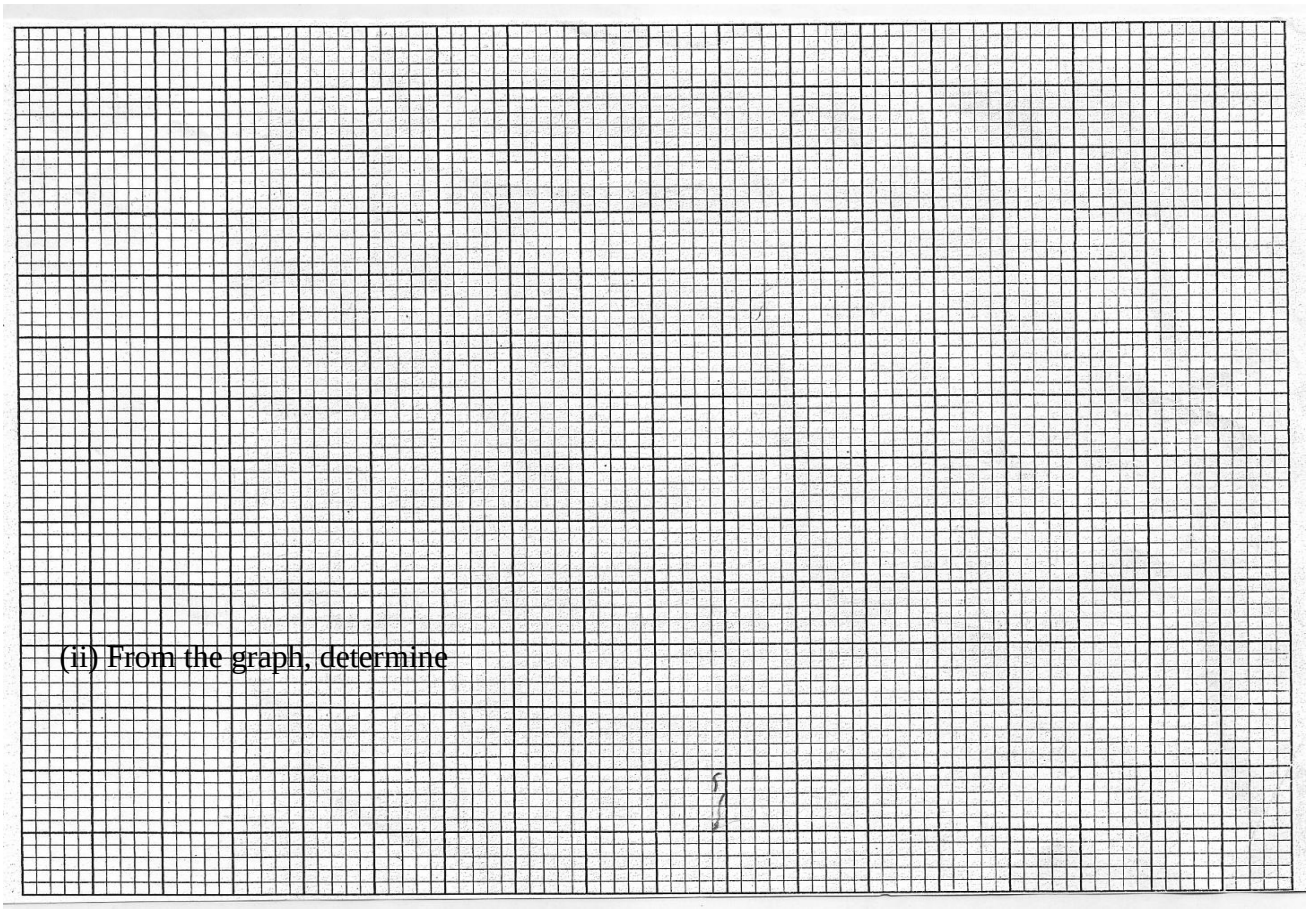
13 (a) State the Ohms law (1mk)

……

(b) In an experiment to determine the internal resistance of a cell, the following data was obtained

Voltage (v)Vx 10^{-2}	14.0	10.0	8.4	6.0	4.2	2.0	1.0
Current (I) Ax 10^{-2}	1.20	6.00	8.00	10.80	13.00	15.60	16.80

(a) Plot a graph of current(A) against voltage (V) (5mks)



(b) From the graph determine

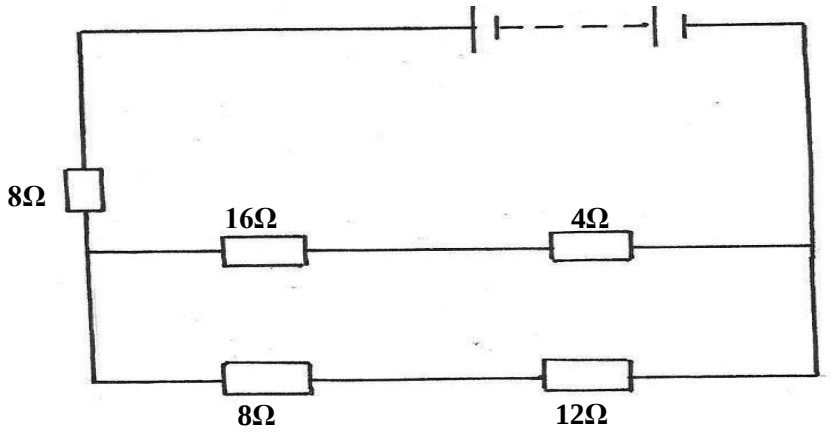
(i).The internal resistance of the cell (3mks)

(ii). Thee.m.f of the cell (2mks)

……

.....

(c) The figure below shows five resistors connected to a **12V** supply.



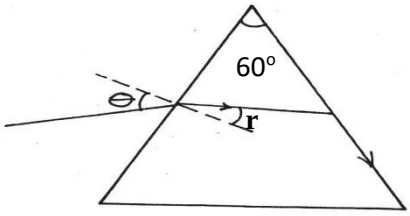
Calculate the effective resistance of the circuit (3mks)

14. (a) State the conditions necessary for total internal reflection to occur. (2mks)

……

……

(b) The figure below shows light being refracted through glass. The velocity of light in a glass is1.88x 10^8 m/s



(i)

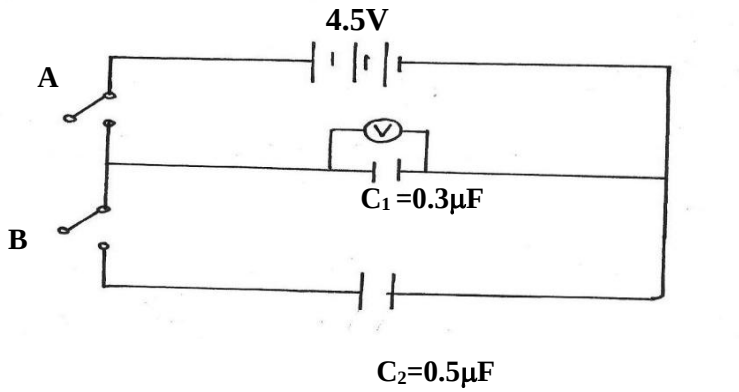
Determine the refractive index of the prism material (speed of light in vacuum,

C= 3.0 x 10^8 m/s) (3mks)

(ii) Show on the same figure above, the critical angle **C** and determine its value (3mks)

(iii) Given that r = 31.2^{o}, Determine the angle Θ and find its value (3mks)

15. The figure below shows a circuit where battery of 4.5V, switches **A** and **B**, two capacitor C_1=0.3μF and $C_2$0.5 μ and a voltmeter are connected.



(i) Determine the charge on C1 when switch A is closed and switch **A** is closed and switch **B** is open (3mks)

……

……

(ii) What is the effective capacitance CT, of the circuit (1mk)

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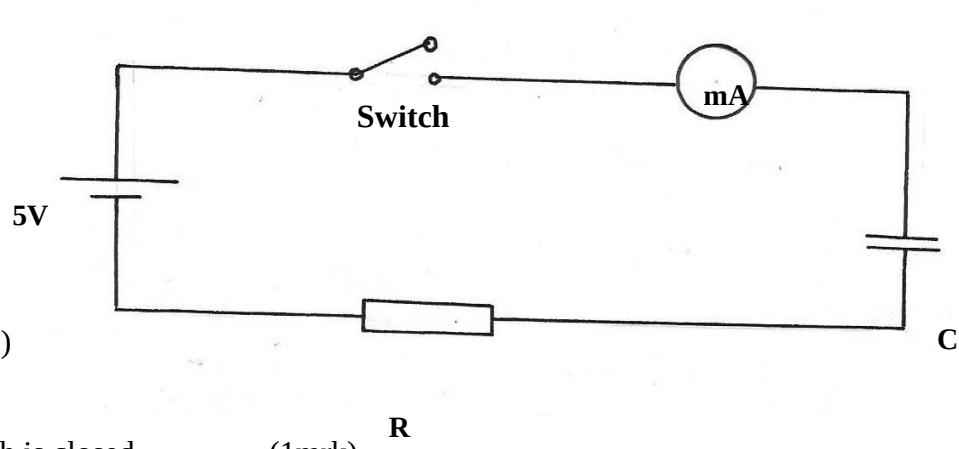
(b) State what is observed on the voltmeter in the circuit when;

(i) Switch**A** is closed and switch**B** is open (1mk)

(ii) Switch **A** is closed and opened and then switch **B** closed (1mk)

(iii) Explain the observation made in (b)(ii) above (2mks)

(c) The following figure shows a circuit consisting of a resistor and a capacitor that may be used to charge a capacitor.



(i) State the observation made on the milliameter when the switch is closed. (1mrk)

(ii) Explain the observation made in (c) (i) above. (2mrks)

(d) The circuit in the figure is left on for some time

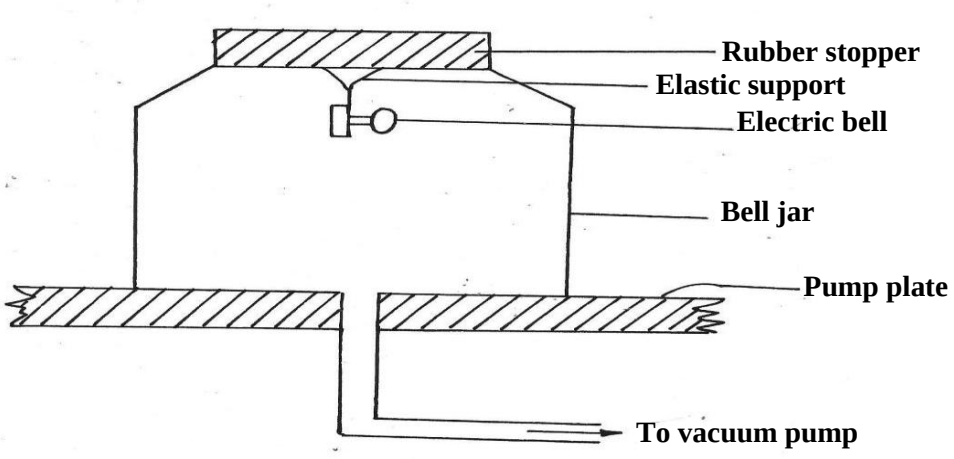
State the value of the p.d across

(i) The resistor**R** (1mk)

(ii)The capacitors **C**

16. (a) State the necessary conditions for interference to occur in waves. (2mks)

(b) The following diagrams shows a set up that was used to demonstrate that sound requires a material medium for transmission.



(i)State what happens to the sound from the electric bell as air continues to be drawn from the bell jar (1mk)

(ii) What happens to the sound if some air is allowed back in to the jar (1mrk)

(iii) Give possible reason why it is not possible to reduce the sound completely in this experiment (1mk)

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DILIGENT STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

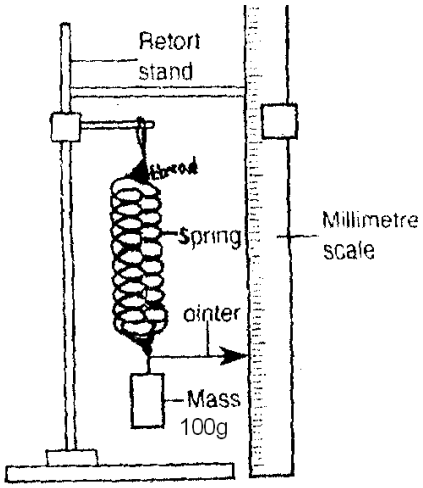
ADM NO: ……..……. SIGN……..……..… DATE: ……

END OF YEAR EXAM (OCTOBER)
TIME: 2 ½ HOURS
232/3
PHYSICS FORM 3
PAPER 3 (PRACTICAL)

QUESTION 1

1. You are provided with the following
   - ✓ One stand, two bosses, two clamps
   - ✓ Two pieces of thread
   - ✓ A stopwatch
   - ✓ One metre rule
   - ✓ Two identical springs
   - ✓ Six 100g masses
   - ✓ One optical pin
   - ✓ A piece of cellotape

(a) Tie the two springs together side by side and set up the apparatus as shown.



(i) Hang the springs from rod (of one clamp) as shown in the figure

(ii)Tie together the upper end and the lower ends of the springs with pieces of thread as shown in the figure.

(iii) Hang a 100g mass from the lower ends of the springs so that the mass is supported by both springs.

(iv) Clamp the metre rule vertically.

(v) Use cellotape to fix the optical pin join on the top of the 100g mass so that it acts as a pointer.

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(vi) Adjust the rule so that the pointer is directly along a particular scale mark of the rule. Record this mark in the table.

b) i) Add a 100g mass to the first mass. Record the new position of the pointer and the extension, e, in the table.

ii) Add another 100g mass and record the new position of the pointer and the extension in the table.

(iii) Repeat b (ii) until the total mass supported by the spring is 600g.

c) (i) Re move the rule, displace the 600g mass slightly downwards and release it to oscillate vertically.

ii) Time 20 oscillations. Record in the table the time t_1 for 20 oscillations. Repeat to obtain the time t_2.Calculate and record the average time and the periodic time T.

(iii) Repeat c(i) and (ii) for 500g, 400g, 300g and 200g masses.

(iv) Find T^2 and complete the table.

Mass (g)	100	200	300	400	500	600
Position of pointer (cm)						
Extension (e)cm						
Time for 20 t_1						
Oscillations (s) t_2						
Average time, t(s)						
Periodic time T(s)						
T^2 (S^2)						

(9 mks)

d) i) Plot a graph of T^2 against extension (e) (5mks)

ii) Determine the gradient of the graph and state its units. (3mks)

iii) The equation of the graph is given by

$$T^2 = \frac{4P^2e}{b} + c$$

where b and c are constants. Determine the value of b. (3mks)

Question 2

You are provided with the following

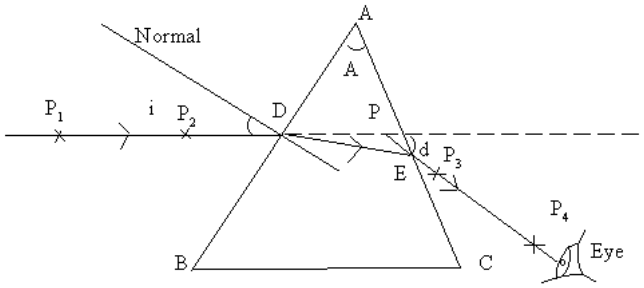
- ✓ A triangular prism of 60.
- ✓ Four optical pins
- ✓ A soft board
- ✓ A plain piece of paper

Proceed as follows

(a) Place the plain sheet of paper on the soft board

(b) Place the prism with one face on the plain paper and trace its outline.

(c) Remove the prism from the plain sheet of paper.



(d) Mark angle A and record its value.

A = ... (1mk)

(e) Draw a normal as shown and draw a ray of incident on the normal at an angle of incidence of 30^0.

(f) Replace the prism on the outline on the sheet.

(g) Stick two pins P_1 and P_2 along the path of the incident ray as shown in the diagram.

(h) View the images of P_1 and P_2 through the glass prism through face AC as shown on the diagram.

(i) Stick two pins P_3 and P_4 so that they appear to be in line with P_1 and P_2 as seen through the glass prism.

(j) Remove the pins and prism from the sheet. Trace the path of the ray until it emerges from the glass as shown in the diagram.

(k) Extend the incident ray and the emergent ray until they meet at P. Measure and record the angle of deviation d.

(l) Repeat the experiment for other angles of incidence shown in the table.

Angle of incidence $(i)^0$	30	35	40	45	50	55	60
Angle of deviation $(d)^0$							

(8 marks)

(m) Plot a graph of angle of deviation $(d)^0$ against angle of incidence $(i)^0$.(5 marks)

(n) From the graph determine the minimum angle of deviation D. (2 marks)

(p) Find the refractive index of the prism material using (4 marks)

$$n = \frac{\text{Sin}\,\frac{(A+D)}{2}}{\text{Sin}\left(\frac{A}{2}\right)}$$

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