

HYBRID FORM 3 END TERM 1

SERIES 1 EXAMS *(ALL SUBJECTS TESTED)*



HYBRID FORM 3 END TERM 1 SERIES 1 EXAMS

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

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ADM NO: SIGN: DATE:

HYBRID FORM 3 END TERM 1 SERIES 1 EXAMS

FORM 3 AGRICULTURE
TIME: 2HRS

SECTION A (40 MKS)

1.Name two causes of blossom end rot in tomatoes. 1mk

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2)Name two diseases of cabbages. 1mk

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3)Give three reasons for ridging in potato production. 1 ½ mks

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4)List four systems of farming. 2mks

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5) What is hybrid vigour as used in breeding? ½ mk

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6)Give four functions of vitamin A in the body of an animal. 2mks

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7)Give two maintenance practices carried out as a claw hammer. 1mk

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8)Give four control measures of liver flukes in livestock production. 2mks

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9) State three factors that would affect digestibility in livestock 1 ½ mks

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10) State the uses of each of the following tools and equipment. 2mks

i) Garden trowel

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ii) Elastrator

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iii) Plumb bob

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iv) Strip cup

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11) Name four features of an ideal cereal store. 2mks

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12) Give four reasons for rearing indigenous cattle in marginal areas of Kenya. 2mks

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13)State two forms in which nitrogen is taken by plants. 1mk

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14)Outline four types of information contained in a breeding record. 2mks

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15) Name two methods of farming considered to be out dated. 1mk

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16)State three reasons why jersey breed of cattle is better suited for drier areas of Kenya than the Friesian. 1 ½ mks

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17)How long is the Oestrus cycle. ½ mk

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18)State four factors that determine the harvesting stage in a crop. 2mks

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19)State Three causes of seed dormancy. 1 ½ mks

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20)Give four reasons why farmers are advised to raise tea in polythene sleeves. 2mks

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21)State four effects of protein deficiency in animals. 2mks

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22)Give two functions of the reticulum in the digestion of food in cattle. 1mk

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23)Give the meaning of the following terminology as used in livestock production. 1mk

a)Pullet

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b)Gilt

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24)A dairy cow is noticed to be showing signs of heat at 6.00a.m what time should it be inseminated 1mk

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25)State THREE ways by which biological agents can enhanced the process of soil formation. 1 ½ mks

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26)State four advantages of drip irrigation 2mks

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27)State three advantages of applying lime as a measure of improving soil condition. 1 ½ mks

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SECTION B (20MKS)

ANSWER ALL QUESTIONS IN THIS SECTION IN THE SPACES PROVIDED.

28)The illustration below shows a physical feature observed in a given cattle breed study the diagram and answer question that follow.



a)Name any four exotic breeds with the above feature. 4mks

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b)Describe two other ideal characteristics of the above breeds of cattle. 2mks

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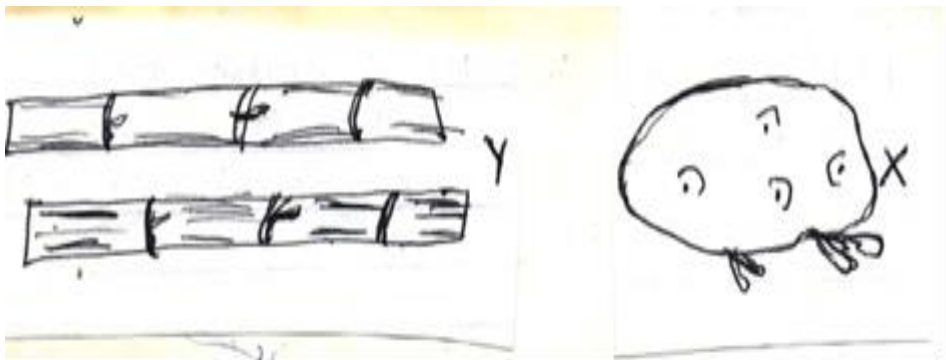
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29)A farmer intends to prepare 600kg of feed containing 20% DCP using feedstuffs Q which contains 18% DCP and N which contains 40%DCP. Using the Pearson's square method, calculate how much of Q and N will be required . 5mks

30)Below are illustrations of planting materials. Study them and answer questions that follow.



a) Identify them 2mks

X

Y

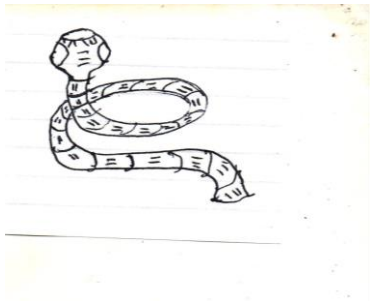
b) Name the preparation X should be subjected to in readiness our planting. 1mk

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c) State two precautions taken when harvesting Y. 2mks

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31) The diagram below illustrates on internal parasite of livestock.



31(i) Identify the parasite. 1mk

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b) Name two hosts of the parasites. 2mks

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c) Name two methods of controlling the parasite. 2mks

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SECTION C (40MKS)

SELECT ANY TWO QUESTIONS FROM THIS SECTION

32)a)Discuss importance of irrigation in farming . 10mks

b)State and explain five factors that influence spacing of crops. 10mks

33a)Explain six factors considered when selecting a breeding stock. 12mks

b)Describe the functions of four parts of the female reproductive system in poultry. 8mks

34(a)Explain the role of livestock industry in kenya's economy. 10mks

b)Describe the life cycle of a three host tick. 10mks

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HYBRID FORM 3 END TERM 1 SERIES 1 EXAMS

Kenya Certificate of Secondary Education

BIOLOGY FORM 3

END-TERM ONE EXAM

Time: 2 hrs

1. Define the following terms:

i) Microbiology. (1 mark)

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ii) Zoology. (1 mark)

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2. Give three characteristics of kingdom fungi. (3 marks)

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3.) Why is Lamarck theory discredited by modern Geneticis? (1 mark)

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b) Name two theories that explain the origin of a man. (2 marks)

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c) What is organic evolution? (1 mark)

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4. a) Define what capsarian strip is. (1 mark)

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b) State 3 factors affecting mineral salt absorption in plants.(3 marks)

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5. a) Distinguish between open circulatory system and closed circulatory System. (2 marks)

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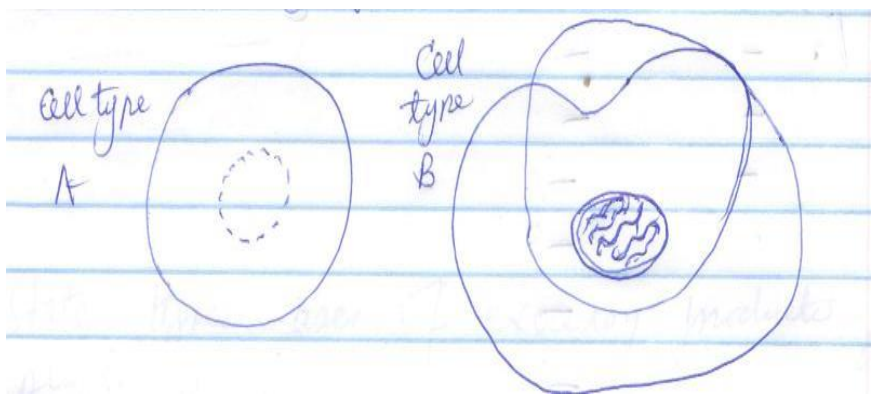
b) Give two types of double circulation. (2 marks)

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6. a) State two differences between a light microscope and an electron microscope with respect to details in the specimen observed. (2 marks)

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b) When observed under a microscope two type of cells in human blood appears as shown below:



i) Identify each cell and give a reason for your answer. (2 marks)

A

B

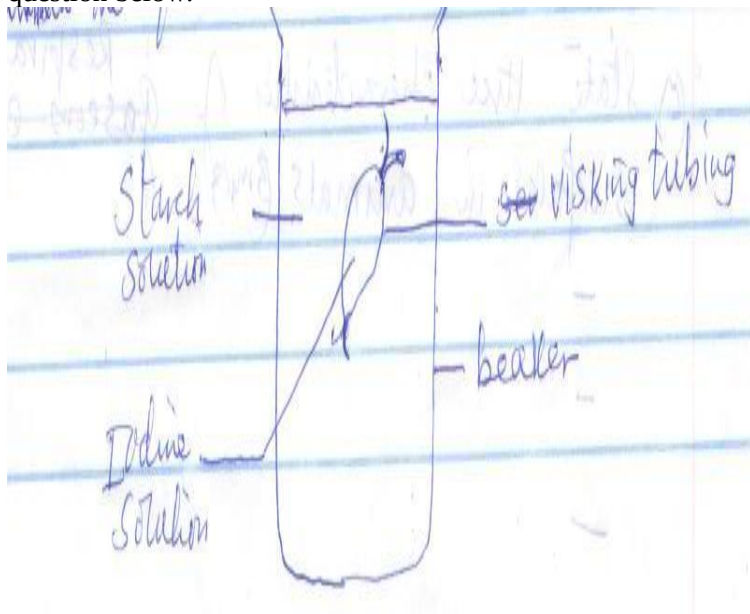
ii) Which of two cells is more abundant in a blood smear? (1 mark)

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7. The set up below shows an experiment carried out by Form three students. Study it and answer the question below.



a. Predict what changes would be observed after 15 minutes. (2 marks)

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b. Explain the possible causes of your prediction in (a) above. (4 marks)

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8. a). State two theories that explain the opening and closing of stomata. (2 mrk)

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b). What is the effect of accumulation of Carbon IV Oxide in plant leaves. (3 marks)

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c). State three characteristics of respiratory surfaces in animals. (3 marks)

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9. a). Name the excretory structures and organs in the following organisms

i. Amoeba

ii. Cockroach

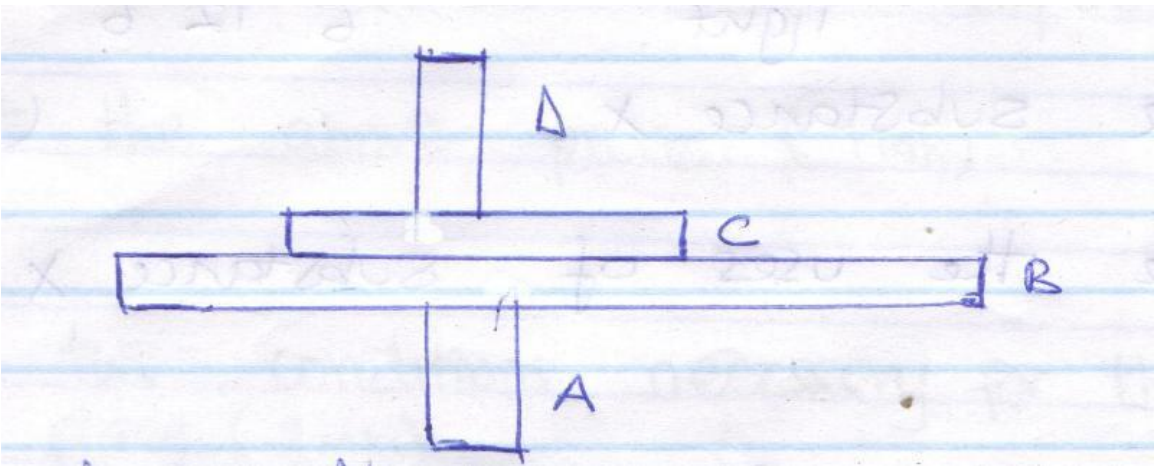
b). What is the Biological significance of having a long loop of hente in an
organism. (1 mark)

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10. a) State three uses of excretory products from plants. (3 marks)
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- b). What are uricotelic organisms. (1 marks)
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11. The diagram below shows an inverted pyramid of numbers of organisms A,B,C and D



- Identify the organism with the:-
- i. Highest population (1 mark)
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- ii. Highest biomas. (1 marks)
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12. State the relationship between

i. A bacteria and a root nodule of a legume. (1 mark)

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ii. A plant leaf and a phytophthora infectans fungi. (1 mark)

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iii. A lion and wild beast in a savannah grassland. (1 mark)

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iv.a.) State the site of photolysis in a plant cell. (1 mark)

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b) State the role played by light energy during photolysis. (2 marks)

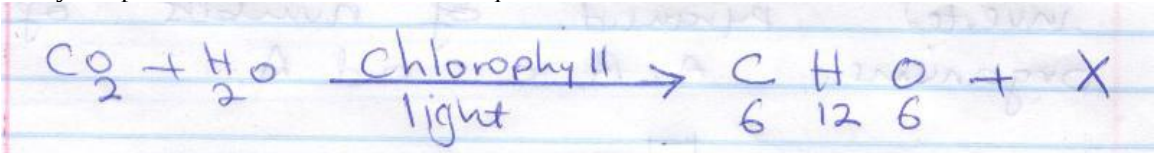
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v.Study the process below then answer the questions that follow:



a) Name substance X. (1 mark)

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b) State the uses of substance X in animals.(2 marks)

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vi.a. Name the forms in which carbohydrates are stored in:-

i. Plant cells. (1 mark)

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ii. Animal cells. (1 mark)

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b. Explain the advantages of storing food in an animal’s body in the form you have named in (a) above. (2 marks)

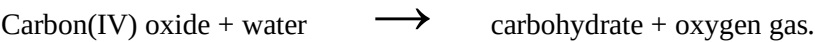
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iii.The equation below represents a process that takes place in green plants.



a. Name the above process. (1 mark)

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b. Give two conditions necessary for the process to take place. (2 marks)

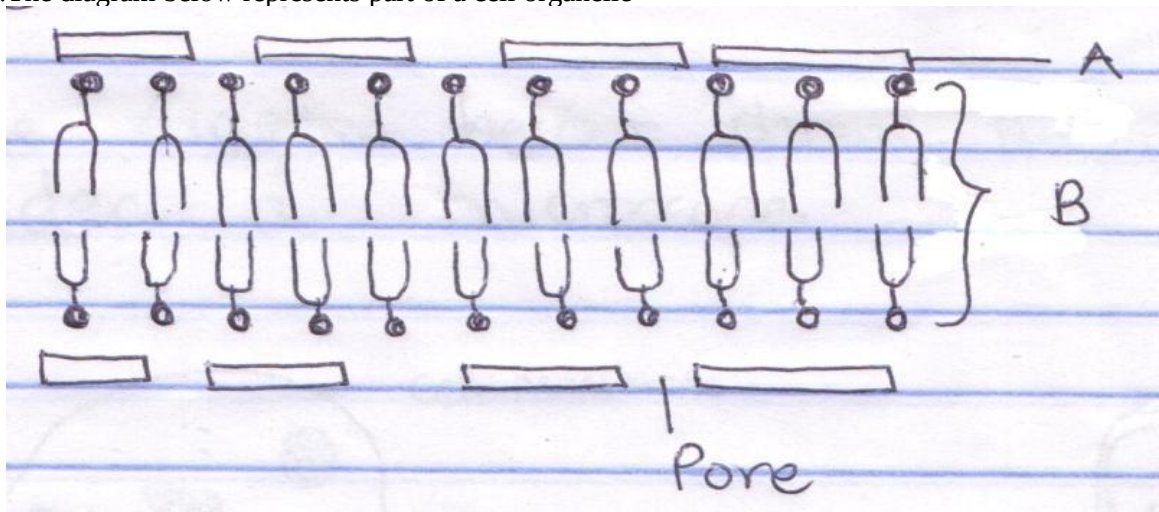
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iv. The diagram below represents part of a cell organelle



- i. Identify the cell organelle. (1 mark)
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- j. Name the part labeled A and B. (2 marks)
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- k. State the physiological process that this structure facilitates. (3 marks)
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v. List three difference between aerobic and anaerobic respiration. (3 marks)

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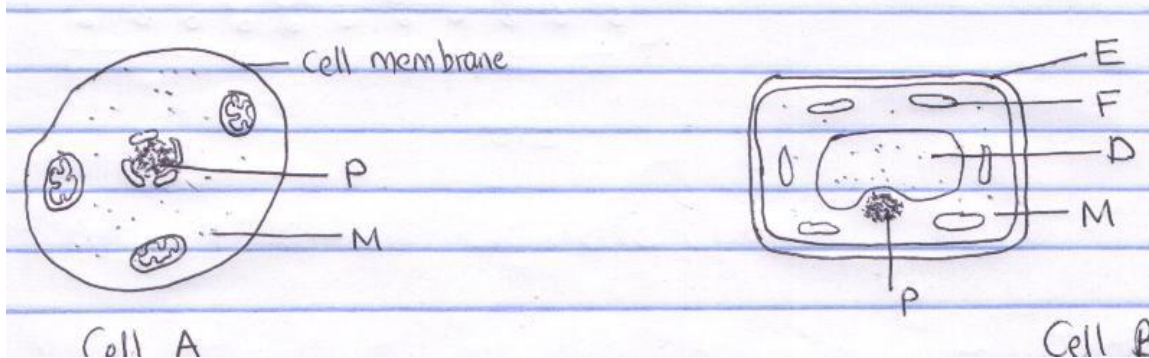
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vi. The diagram below shows two cells as observed under a microscope.



a). With reasons in each case identify cell A and B cell. (2 marks)

Cell A: (2 marks)

Cell B: (2 marks)

b). Name the parts labeled E, D and M. (3 marks)

a. E.

b. D

c. M.

c). State the functions of the parts labeled P and F. (2 marks)

i. P.

ii. F.

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HYBRID FORM 3 END TERM 1 SERIES 1 EXAMS

**END OF TERM ONE EXAM EXAMINATION
BUSINESS STUDIES FORM 3**

Time 2 hours

INSTRUCTIONS

Answer all the questions in the spaces provided

1. Highlight four positive impacts of the physical environment on the operations of a business. 4mks

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2. Outline four features of oligopoly power. 4mks

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3. State four circumstance under which photocopying may be used to reproduce documents in a school. 4mks

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4. State four reasons why diagonal communication needs to be encouraged in an organization. 4mks

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5. List four characteristics of land as a factor of production which distinguish it from other factors of production. 4mks

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6. Give the name of the insurance policy described in the following table. 4mks

Description	Name of policy
Covers ships while on a specified voyage and time.	
Covers a specified peril when the ship is either being loaded, offloaded or served.	
Covers cargo against loss or damage while being transported by ship.	
One policy used to cover a number of ships belonging to one organization.	

7. State four benefits that a subsistence producer may get by participating in exchange of goods. 4mks

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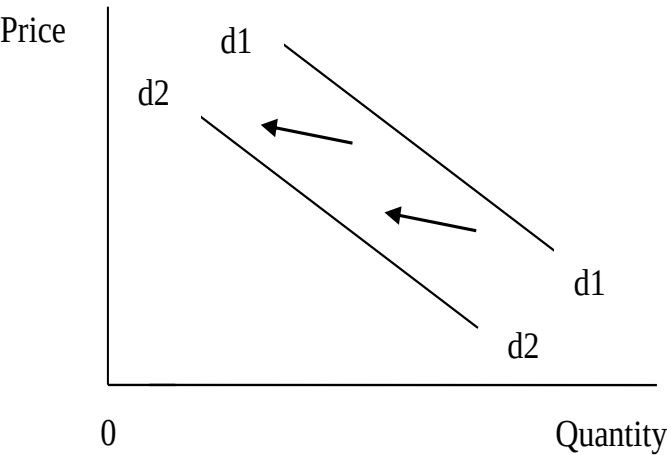
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8. Study the diagram below and answer the questions that follow.



State four factors that are responsible for the change in the diagram above. 4mks

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9. State four circumstances under which a wholesaler and a retailer may be removed from the chain of distribution.

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10. Identify the following Acts of Parliament used by the government to protect the consumer. 4mks

Description		Act of parliament
(i)	Requires that traders maintain high standards of hygiene	
(ii)	Requires that traders use correct weighing equipment	
(iii)	Requires that producers do not include harmful substances in products	
(iv)	Requires that traders only engaged in business which they are permitted	

11. List four documents prepared by the buyer in home trade. 4mks

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12. Give four features of economic recourses. 4mks

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13. Outline four tools used by the government to influence the quantity of a product supplied in a market. 4mks

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14. Highlight four factors that may be used to determine the size of a firm. 4mks

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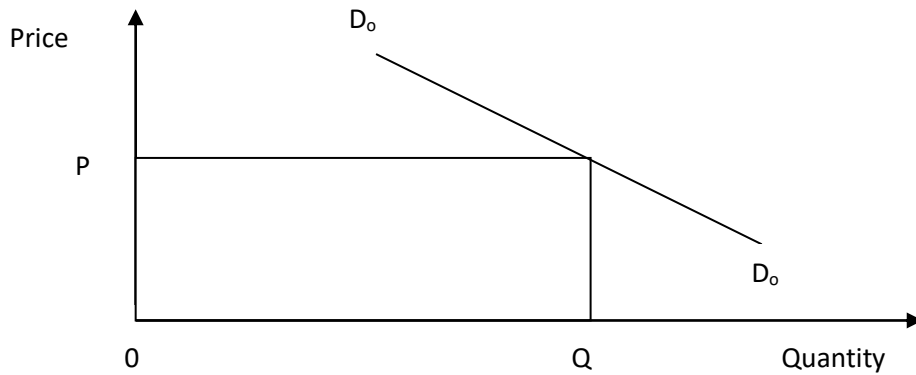
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15. The diagram below shows the current demand for petrol.



(a) What is the effect of an increase in the price of cars on demand for petrol 2mks

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(b) Draw a new demand curve on the diagram above to show the effect of an
Increase in price of cars 2mks

16. State four reasons why few Kenyans take out life assurance policies. 4mks

17. In the table given below, give the appropriate type of advertising which suits the description.
4mks

Description		Type of advertising
(a)	Persuades the consumers to buy a product	
(b)	Promotes a particular brand of product	
(c)	Creates awareness about a product	
(d)	Promotes the name of the manufacturer	

18. Highlight four disadvantages of a long channel of distribution of goods to a buyer.
4mks

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19. Highlight four major challenges that may face a developing country in its quest to adopt containerization as a method of transport.
4mks

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20. State four reasons why consumers have to make a choice between competing needs.
4mks

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21. Identify the macro-environmental factors affecting business operations as described by the following statements. (4mks)

- (a) Laws and policies that regulate business activities.....
- (b) Affects buyer’s ability to buy commodities offered by a business.....
- (c) Firms selling similar products trying to outdo each other in their efforts to maximize profits
- (d) Dictates how people live and what products they consume

22. Outline four features of Itinerant traders. 4mks

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23. Nyeri Youth Group wants to start a warehouse service business in their ward. State any four essential factors they should consider for their warehouse to function effectively.
4mks

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24. Highlight four circumstances under which a partnership business would be preferred to a sole proprietorship. 4mks

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25. Define the following components of business studies. 4mks

(a) Commerce _____

(b) Accounting _____

(c) Economic _____

(d) Office practices _____



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HYBRID FORM 3 END TERM 1 SERIES 1 EXAMS

CHEMISTRY FORM 3

TERM: 2 HOURS.

INSTRUCTIONS: ANSWER ALL THE QUESTIONS IN THE SPACES PROVIDED

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TOTAL SCORE: _____

1. An oxide of element D has the formulae D_2O_3 .
a) What is the oxidation number of D? (1mk)

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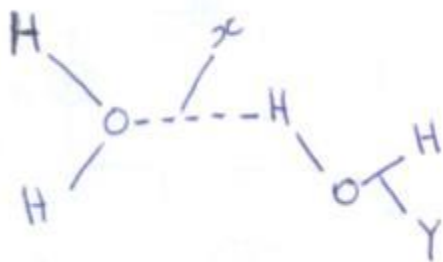
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- b) Write the formulae of the hydroxide of D? (1mk)

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2. The diagram below shows the bonding present in water molecules



Name the type of bond indicated by

a) X (1mk)

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b) Y (1mk)

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3. When crystals of hydrated iron (ii) sulphate, $\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$ were left in the open air overnight, they changed to light green powder

a) Explain the observations above (1mk)

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b) Name the process involved (1mk)

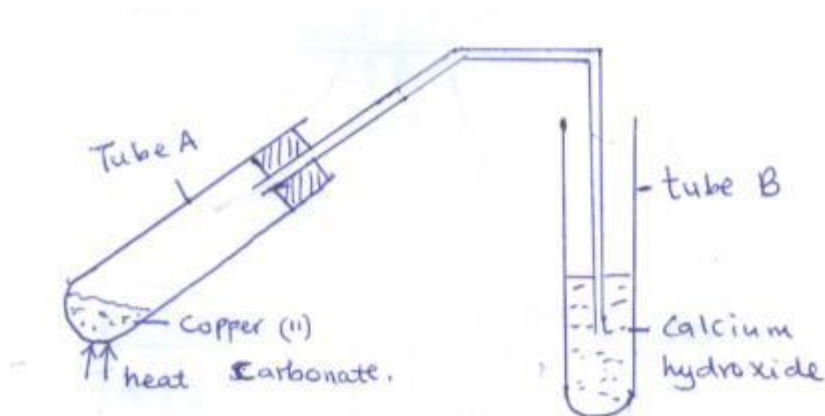
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4. Distinguish between hydrated salt and anhydrous salt (2mk)

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5. Study the set up below and answer the questions that follow



a) State the observations made in
(i) Tube A (1mk)

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(ii) Tube B (1mk)

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b) Write a chemical equation for the reaction that took place in tube A. (1mk)

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6. (a) State Boyles law (1mk)

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(b) A sample of a gas occupies 800cm^3 at 50°C and 760mmHg pressure. Determine the volume the gas would occupy at 0°C and 720mmHg pressure (3mk)

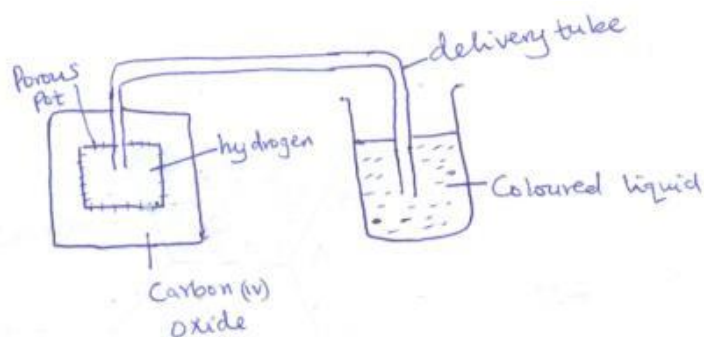
7. Burning magnesium ribbon continues to burn in a gas jar of Carbon (iv) Oxide. Explain (3mk)

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8. a) State Grahams law of diffusion (1mk)

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b) The set up below was used to study the rate of diffusion of hydrogen and carbon (iv) Oxide



State and explain the observation which were made on the coloured liquid (3mk)

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9. A compound has the following percentage composition by mass: carbon 40%, hydrogen 6.7% and oxygen 53.3%. The relative formula mass, RFM of the compound is 180. Determine its;

(a) Empirical formula (C=12, H=1, O=16) (2mks)

(b) Molecular formula (2mk)

10. Describe how you would obtain a pure sample of lead (II) carbonate from a solid mixture of lead (II) carbonate and sodium carbonate. (3mks)

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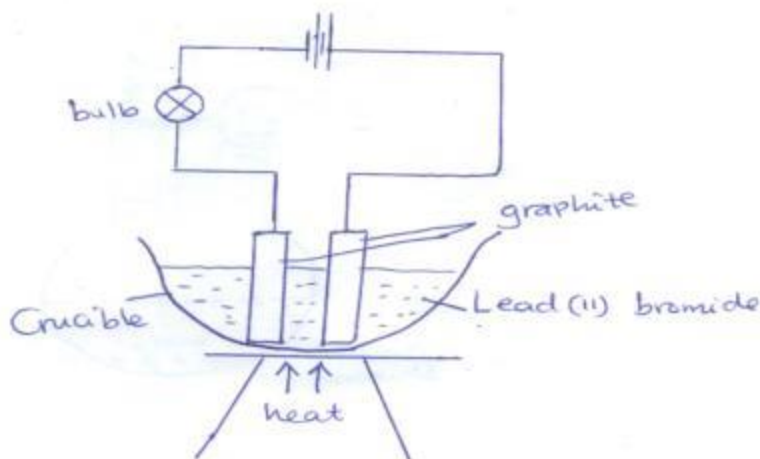
11. (a) Define the term electrolyte (1mk)

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b. The set up below was used to electrolyse lead(II) bromide using graphite electrodes



(i) Label the cathode on the diagram above (1mk)

(ii) Write the ionic equation for the reaction that occurs at the

I. Anode (1mk)

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II. Cathode (1mk)

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iii. What observations would be made on the bulb if the source of heat was withdrawn? Explain.(2mks)

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12. A solution contains 4g of Sodium hydroxide in 250 cm³ of solution. Determine the molarity of the solution. (Na=23, O=16, H=1) (3mks)

13. The grid below represents part of the periodic table. The letters are not the actual symbols of the elements.

									D
A	B						C		
	J			E			F		
G									

(a) Select the most reactive non metal (1mk)

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(b) Select an element which

i) Can form an ion of charge +2 (1mk)

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ii) Has the least ionisation energy (1mk)

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(c) Write the formula of the compound formed when E and F combine (1mk)

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(d) What type of bond is formed when J and C combine? Explain (2mk)

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(e) Compare the atomic radius of B and J. Give a reason for your answer (2mk)

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(f) An atom of element W is denoted by $^{14}_7\text{W}$. Indicate its position in the grid by writing letter W (1mk)

14. A certain volume of carbon (IV) oxide takes 200 seconds to diffuse through a porous plug. How long would it take the same volume of Ozone, O_3 to diffuse under the same conditions? (C=12, O=16) (3mk)

15. Two aqueous solutions of lead(II) nitrate and sodium chloride were mixed together

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

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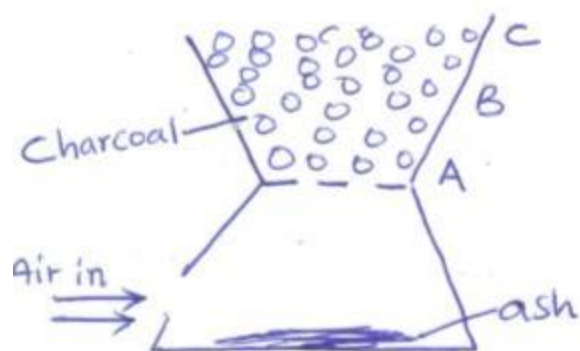
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(b) Write the ionic equation for the reaction (1mk)

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16. The diagram below shows a charcoal 'jiko' with different regions



(a) Write an equation for the formation of the product in region B. (1mk)

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(b) What observations are made in region C? Explain (2mk)

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17. Determine the number of molecules of oxygen gas contained in 11.2g of oxygen gas. (O=16, Avogadro's constant= 6.02×10^{23}) (3mk)

18. The table below shows the PH values of solutions A, B, C and D

SOLUTION	A	B	C	D
PH	6.5	13.0	8.0	2.0

(a) Which of the above solutions is likely to be dilute hydrochloric acid? (1mk)

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(b) Name the type of reaction that takes place when B reacts with D (1mk)

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(c) Which solution would be advisable for use by a patient with indigestion? (1mk)

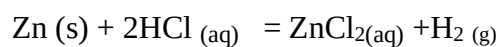
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19. Complete the chemical equations below to show the decomposition of certain salts.

(a) $\text{NaHCO}_3(\text{s})$ heat _____ (1mk)

(b) $\text{Zn}(\text{NO}_3)_2 (\text{s})$ heat _____ (1mk)

20. Zinc metal was reacted with 200cm^3 of 0.1 M hydrochloric acid according to the following equations



Calculate the:

- (a) Number of moles of hydrochloric acid used (2mk)
- (b) Volume of hydrogen gas produced at s.t.p. (molar gas volume at s.t.p= 22.4 litres) (2mk)

21. The set up below was used to prepare oxygen in the laboratory



- (a) Complete the diagram above to show how oxygen is collected (2mk)

(b) Identify the liquid Q (1mk)

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(c) State one commercial use of oxygen (1mk)

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22. Study the table below and answer the questions that follow

Substance	Melting point ($^{\circ}\text{C}$)	Boiling Point ($^{\circ}\text{C}$)	Electrical conductivity	
			In solid	In liquid
U	1083	2595	good	good
V	801	1413	Poor	good
W	5	80	poor	poor
X	-115	-84	poor	poor
Y	3550	4827	poor	poor

(a) Which substance is likely to be a metal? (1mk)

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(b) Which substance is likely to have the following structures

(i) Simple molecular (1mk)

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(ii) Giant ionic (1mk)

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23. 25cm^3 of 0.1M potassium hydroxide solution was pipetted into a conical flask and titrated with dilute sulphuric (VI) acid. The results were tabulated as shown below.

	I	II	III
Final burette reading (cm ³)	24.1	48.1	24.4
Initial burette reading (cm ³)	0.0	24.1	0.0
Volume of acid used (cm ³)	24.1	24.0	24.4

(a) Calculate the average volume of the acid used (1mk)

(b) Calculate the number of moles of potassium hydroxide used (2mk)

(c) Determine the concentration of sulphuric (VI) acid used in moles per litre. (3mk)

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HYBRID FORM 3 END TERM 1 SERIES 1 EXAMS

451/1

COMPUTER STUDIES PAPER 1

SECTION A (40 MARKS)

Answer all the questions in space provided.

1. List 4 hardware components that form a complete computer system. 2 mks

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2. What do you understand by the term 'Disk initializing'? 1mks

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3. Draw an illustration of:

- a) Parallel cable 1mk

b) USB port

1mk

4. Explain the three parts of a task bar .

3mks

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5. Name three examples of flat-panel monitors available in market today.

3mks

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6. List four number systems that the design and organization of a computer may depend on.(4mks)

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7. Explain the meaning of the following terms as used in computer communication (2mks)

a) Modulation

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b) Demodulation

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8. Explain the 3 factors used to classify operating systems. 3mks

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9. By using two compliment work out $31_{10} - 17_{10}$ in binary form.
Show your calculations clearly. (2mks)

10. What is the meaning of the following as used in word-processing: 2mks

i) Word wrap

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ii) Drop caps

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11. Using the long division method convert 45_{10} into binary. 1 mks

12. a) Differentiate between a formula and a function as used in Excel 2 mks

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b) What is the effect of the following function: =COUNTIF(A10:E10, “eggs”). 1mk

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c) Explain the meaning of legends as used in Excel. 1mk

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13. a) Name four database models. 2mks

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b) State the work/function of the following field properties if set: 2mks

i) Format.
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ii) Default value
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14. (a) List any 4 examples of DTP software available in the market today. 2mks
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(b) What is the difference between the pasteboard and printable area? 2mks
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15. In electronic mailing (e-mail), what do the following domain refer to in an e-mail address 2mks
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16.

e.g. – Oketchjunior@yahoo.co

- edu
- org
- gov
- co

17. Define the word protocol. 1mk

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SECTION B (60 Marks)

Answer question 16 and any other TWO Questions.

18. a) Describe any three mouse techniques/skills 3mks

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b) List four key groupings on a computer keyboard citing two examples in each. 4mks

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c) Name and explain the function of the following key symbols.

i) 2mks

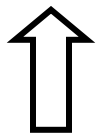


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ii) 2mks

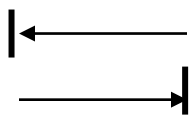


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iii) 2mks



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iv) Esc 2mks

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19. (a) **Differentiate** between a formula and a function as used in Excel. (2mks)

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(b) **What** is the effect of the following function?
COUNTIF (A5:D5,"orange"). (2mks)

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(c) The first column in the table below contains the formula stored in all C10 of a spreadsheet. **Enter** the formula as they would appear when copied to cell F15 of the same spreadsheet. (3mks)

FORMULA IN C10	FORMULA IN F15
=A56*B5	
=A\$5	
=4*B\$6	

(d) (i) **Explain** the concept of distributed databases. (2mks)

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(i) **State two** advantages of distributed databases. (2mks)

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(e) **Outline two** uses of forms in database design. (2mks)

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(f) **List any two** word processor software. (2mks)

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19. (a) Explain how computers are used in the following areas: (6 Mks)

i).Law enforcement

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ii).Banking

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iii).A library

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(c) List three factors to be considered when purchasing a microcomputer (3 mks)

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20. (a) Identify three advantages of using computers in banking (3 mks)

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(b) Define the term ‘ computer laboratory’ (2 mks)

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(c) List down three safety precautions one should observe when entering a computer laboratory (3mks)

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(d) List down four functions of the uninterruptible Power Supply (UPS) (4 mks)

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21(a) Explain each of the following computer terminologies as used in data representation. (4mks)

i) bit -

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ii) Byte -

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iii) Nibble -

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iv) word -

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(b) Convert 57.4_{10} to its Octal equivalent (2mks)

(c) Perform the following Binary arithmetic:

i) $11100111 + 00101110$ (1mk)

ii) $10101_2 - 110_2$ (2mk)

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FORM 3 C.R.E END OF TERM 1 EXAM TIME: 2HRS ANSWER ALL QUESTIONS

1. a) State seven ways in which the Israelites worshipped God in the wilderness.(7mks)
b) Identify seven challenges faced by Moses during the Exodus.(7mks)
c) State six ways in which the Ten commandments apply to Christians life today.(6mks)
2. a) Outline the problems faced by prophet Elijah in Israel.(6mks)
b) Explain eight effects of idolatry in Israel during the time of prophet Elijah.(8mks)
c) Outline the practices of idolatry in the society today.(6mks)
- 3a) state six titles given to the messiah by prophet Isaiah.(6mks)
B) Outline the role of John the Baptist in preparing the way for the messiah.(8mks)
C) State six ways in which Christians play the role of John the Baptist in the society today.(6mks)
- 4 a) Giving examples from Luke's gospel, describe the categories of Jesus miracles.(8mks)
b) Narrate the parable of the good Samaritan in saint Luke's gospel.(7mks)
c) Sate five factors which hinder Christians from practicing Jesus command to love one's neighbour.(5mks)
- 5a) Identify the spiritual gifts taught by saint Paul in the early church.(8mks)
b) Explain unity of believers as expressed in the symbol of the vine and branches.(6mks)
c) State factors that undermine church unity today.(6mks)
6. a) Outline six Characteristics of true prophets in the Old Testament. (7mks)
b) State four ways in which the rich oppressed the poor during the time of prophet Amos (7mks)
c) Give six reasons why Christians find it difficult to help the needy in society.(6mks)

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HYBRID FORM 3 END TERM 1 SERIES 1 EXAMS

FORM 3 ENGLISH PAPER

TIME: 2 1/2 HRS

1. COMPREHENSION. (20 MARKS)

Read the passage and then answer the questions that follow.

Taiyo stood in the shadows by the window, her back to the room. From her vantage position on the third floor of the building where their flat was located, she had a bird's eye view of the sprawling town. The rising sun shone on rooftops, giving them a yellowish tinge. Across the roads that criss-crossed the town, diminutive figures of men and women hurried briskly to their places of work. Uniformed school children, rucksacks on their backs, jostled boisterously as they alighted from one matatu and boarded another. Beneath her, down at the courtyard, she could see her father moving and fussing. He was organizing and directing, with obvious shortness of temper, the loading of two ten-ton lorries. He was gesticulating violently, apparently reprimanding loaders for being slow and inept in carrying out the task before them.

Taiyo knew her father well. He was not a man who cared to have his well-laid work-plans delayed or disrupted. She had noticed that he had become even more belligerent ever since the family learnt that he had been retrenched and they were now being forced to vacate the house and relocate to the rural town he had left many years back. Although the distance would not allow her to hear what he was telling the loaders, Taiyo felt a mild but quite genuine twinge of sympathy for the poor fellows down there, for she knew the sting of her father's tongue.

It reminded her of her own recent battle with him when he denied her permission to travel to Mombasa with other young men and women who had been selected by an F.M. Radio Station to attend an extravaganza. She had stubbornly put up a spirited struggle but the battle was so predictably and utterly lost. That had left a wound in her heart that was still too raw to probe. Her rage, she realized, was still seething within her. The simple faith and certainty of childhood upon which her life until then had been founded, and failed her. Also, her trust that her father would give her whatever she requested for had been badly shaken.

Stemming those thoughts out of her mind, she raised her head and looked through the morning sun beams that gleamed brightly across the rooftops of Nakuru town; that beloved town that was the mother of all flamingoes. A town that she was now about to leave. Tears welled in her eyes. She blinked suddenly and rapidly.

Taiyo did not hear her younger sister Resian approach. Briefly and in silence, they stood by the window side by side in the empty room. As far back as the two sisters could remember, they had always stood by that window every Sunday morning before they went to church. But their little habit of observing what went on below the streets of the town was made poignant that morning; it was going to be the last time they would do this.

Resian leaned forward and lifted her face to look into her sister’s large, brown eye. She spoke very softly but her words were distinct and her voice very clear in the silent empty room.

“Taiyo-e-yeyiyo, what do you think life is going to be like in Nasila?”

Questions:

1. Where did Taiyo live? (1 mark)

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2. What time of day was it? Give reasons for your answer. (3 marks)

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3. Describe the character of Taiyo’s father using information from the passage. (4 marks)

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4. What reason is given for the family’s relocation? (2 marks)

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5. What is Taiyo’s attitude towards the workers? (2 marks)

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6. Explain what recent event had deeply pained Taiyo. (2 marks)

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7. ‘Tears welled in her eyes? Give a reason for Taiyo’s emotional state. (2 marks)

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

(i) Reprimanding

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(ii) Rage

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(iii) Mother of all flamingoes
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.....

(iv) A bird's eye view
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2. Read the excerpt below and answer the questions that follow

You are **mad!**” Resian screamed at him. You are stark mad if you think I am your wife. I can only be your wife over my dead body. Yes, you and my father can kill me and carry my dead body to your **palatial** home.”

He was stunned by those harsh words. He winced as if he had been struck. Then already harsh line of his mouth tightened and he stood tense for a moment. Then he relaxed and watched her mockingly. “You can never escape Resian,” he repeated quietly, smiling. The very normality of his voice as he spoke those monstrous words was most shocking and disturbing to her. Whether you scream your heart out, or jump into the deep sea, Resian, you are mine. You are my wife from now henceforth”

“I want to go now.” Resian announced angrily shuddering with **disgust** and terror.

“You want to go?” he asked, the contemptuous quiet of his voice a menace by itself.” Go! You want to be persuaded, coaxed and **pampered** to marry Oloisudori Lonkiyaa? Sorry I will not do that! If you want to go, please yourself. You may opt to go, but when you are mine, you will do as I please. No one plays games with Oloisudori. Ask your father, he will tell you.”

“Stop it! Stop it! Resian screamed excruciatingly pained by the disdainful remarks of Oloisudori. Putting her hands over her ears, she made a dash for the door. He made no effort to stop her but she flung it open and turned to glare at him with tearful eyes

You are mad! She screamed again sobbingly. “You are stark mad! You hear me? You are nothing but ol-ushuushi.” She walked away and as she did so, she heard his soft laughter behind her.

1. Say what happens before this excerpt. (3mks)

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2. How is Oloisudori portrayed in this excerpt? (4mks)

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3. Describe the feeling of Resian in this excerpt (3mks)

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4. From other areas of the novel, state other crimes that are practiced by Oloisudori. (3mks).

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5. How does the writer utilize irony in this excerpt? (3mks)

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6. “You are my wife from now henceforth” Rewrite in the reported speech. (1mk)

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7. Explain the meaning of the following words (4mks)

a) Pampered

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b) Disgust

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c) Mad

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d) Palatial

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7. What happens immediately after this extract? (3mks)

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3. CLOZE TEST. (10 marks)

We learnt that riddles areof the genres of Oral Literature,
..... fall under the short forms. Otherforms of
Oral Literature include: proverbs, twisters and puns.
....., a riddle is a question, statement, word or sound hint put in figurative
..... The respondent or the challenged is called upon to unravel it.
Riddles, like proverbs, are brief and precise. are metaphors. However,
unlike proverbs, they areserious and are mainly
..... at play or in a relaxed atmosphere .
.....usually relate to the geographical environment of a people.

4. GRAMMAR: (15 MARKS)

A. Complete the following collective nouns; (3 marks)

1. Aof actors.

2. A of flowers.

3. Aof judges.

B. Correct the miss pelt words. (3 marks)

(i) professor

(ii) pronounciation

(iii) acomondation

C. Join the following sentences using conjunctions below to avoid unnecessary repetition.

a) Tigers are beautiful animals. Tigers are dangerous animals.

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b) You can borrow my pen. You can buy one from the shop.

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(and, but, so, also, or)

D. Rewrite the following sentences as instructed.

i) The principal asked me to see him the following day. (change into direct speech) (1 mark)

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ii) The visitor treads on the carpet with his muddy shoes. (write in the past tense.) (1 mark)

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E. Complete the sentences using a noun derived from the word in brackets. (3 marks)

1. The(receive) directed the visitor to the manager's office.

2. The lazy(employ) was reprimanded by his boss for shoddy work.

3. Speak the(true)

F. Fill in the blank spaces with the correct form of verbs.

j. A flock of birds (fly) away from this lake last year.

k. I wonder why they had(sing) that particular song.

5. POETRY.

(15 marks)

Life's mirror by Maseline Bridges.

There are loyal hearts, there are spirits brave
There are souls that are pure and true;
Then give to the world the best you have
And the best will come back to you.
Give love, and love to your life will flow
Strength in your utmost need
Have fault, and a score of tears will show
Their fault in your work and deed
Give true and your gift will be paid in kind
And honour meet
and the smile, which is sweet
Give sorrow and pity to those who mourn
You will gather in flowers again
The scattered seeds from you thought outborne
Though the sowing, seemed but vain
For life is the mirror of King and slave
Is just what we are and do
Then give the world the best you have
And the best will come back to you.

Questions.

1. Briefly explain what the poem is talking about

(2 marks)

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2. Discuss and explain the effectiveness of two stylistic devices in the poem. (4 marks)

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3. Comment on the suitability of the title. (2 marks)

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4. What lessons do you learn from the poem? (2 marks)

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5. Write a rhyme scheme for the poem. (2 marks)

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6. Which aspects of the poem promote rhythm? (3 marks)

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-END-

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HYBRID FORM 3 END TERM 1 SERIES 1 EXAMS

END OF TERM I

This paper consists of two sections: A and B.

Answer all the questions in section A. Answer question 6 in Section B and any other two questions in this section.

SECTION A.

ANSWER ALL THE QUESTIONS IN THIS SECTION.

1. (a) (i) Define the term atmosphere. (2mks)

(ii) State three components suspended in free atmosphere. (3mks)

(b) (i) Apart from the troposphere, name two other main zones of the atmosphere. (2mks)

(ii) Give THREE characteristics of the troposphere. (3mks)

2(a)(i) Differentiate between primary data and secondary data. (2mks)

(i) Apart from conducting interview state three other methods of collecting statistical data. (3mks)

3.(a) Draw a simple fold. On it indicate the following

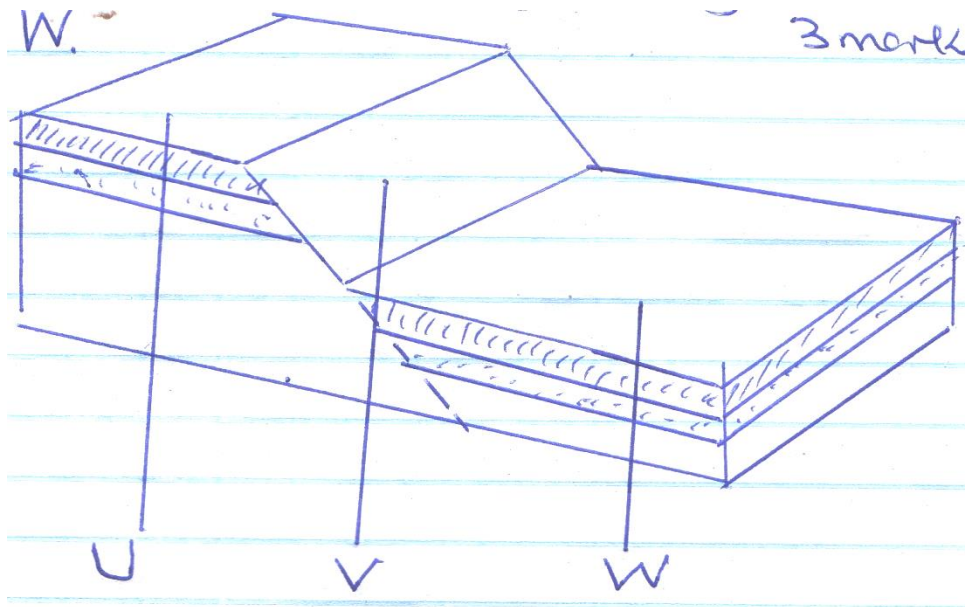
(i) Crest

(ii) Trough

(ii) Limb

(b) State two negative effects of folding on human activities. (2mks)

4. (a) Below is a diagram showing parts associated with faulting. Name the parts U, V, W. (3mks)



(b) State two forces which cause faulting.

(2mks)

5.(a) Apart from biological weathering, name two other types of weathering.

(2mks)

(b) State three ways in which plants influence weathering.

(3mks)

SECTION B

ANSWER QUESTIONS 6 AND ANY OTHER TWO QUESTIONS FROM THIS SECTION

6. Study the map of Oyugis 1:50,000 (sheet 130/1) provided and answer the following questions.

(a) (i) State the types of scale used in the map. (2mks)

(i) Express the scale used in the map in statement. (1mk)

(ii) Measure the length of the loose surface road from grid square 6731 to grid reference 77 0186.

Give your answer in kilometers. (2mks)

(i) Calculate the area covered by Koderia forest. Give your answer in Kilometers square.

(2mks)

(b) (i) Identify the methods used to represent relief of the area covered by the map. (2mks)

(ii) Identify two features found in grid square 6737. (2mks)

(c)(i) Apart from forest, identify two other types of vegetations found in the area covered by the map.

(3mks)

(ii) State the general direction of flow of river Maugo. (1mk)

(d) Citing evidence from the map give five economic activities carried out in the area covered by

the map. (10 mks)

- 7.(a) (i) Define the term mineral . (2mks)
- (ii) Name three fossil fuels. (3mks)
- (iii) State three forms in which minerals occur. (3mks)
- (b) (i) State **SEVEN** factors which influence the exploitation of minerals. (7mks)
- (ii) Explain five significance of minerals to the economy of Kenya (10mks)

- 8(a) (i) Define the term earthquakes. (2mks)
- (ii) Name two types of earthquake waves. (2mks)
- (iii) Draw a simple diagram of the earth. On it indicate
- Seismic focus (1mk)
 - Epicenter (1mk)
- (b) (i) Name **four** human activities which cause earthquakes. (4mks)
- (ii) State three earthquake zones of the world. (3mks)
- (iii) State four effects of earthquake on crustal rocks. (4mks)
- (c) Explain four negative effects of earthquakes. (8mks)

9.(a) Define the following terms.

- (i) Agro forestry. (2mks)
- (iii) Afforestation (2mks)
- (iv) Re- afforestation (2mks)
- (b) Name three examples of each of the following.
- (i) Hardwood tree species in Kenya forests (3mks)
- (ii) Exotic tree species planted in Kenya. (3mks)
- (c) State three factors that favour the growth and development of softwood forests in Canada. (3mks)
- (d) Explain five measures being taken by the government of Kenya to conserve forests. (10mks)

10.(a) (I) Define the term mass wasting. (2mks)

(ii) Differentiate between weathering and mass wasting. (2mks)

(b) (i) State four factors which influence mass wasting. (4mks)

(ii) Apart from soil creep, state three other processes of slow mass wasting. (3mks)

(c) You intend to carry out a field study on the processes of mass wasting within the local environment.

(i) State three preparations you would carry out before the field study. (3mks)

(ii) List three methods you would use to record the data. (3mks)

(iv) State five effects of soil creep to the human and physical environment. (5mks)

(v) Give three reasons why it is important to study mass wasting through field study. (3mks)

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HYBRID FORM 3 END TERM 1 SERIES 1 EXAMS

**HISTORY AND GOVERNMENT
FORM 3 END OF TERM 1 EXAM**

SECTION A (25MKS)

Answer all the Questions in this Section.

1. Give two unwritten sources of information on History and Government. (2mks

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2. Give two reasons that made the early man to live in groups during the stone age period. (2mks

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3. State two ways in which Kenyan communities interacted during the pre-colonial period. (2mks

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- 4.State two roles of the council of elders among the Mijikenda.(2mks
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5. Give the main reason why the early visitors came to the Kenyan coast by 1500 A.D (1mk
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6. State two reasons why the Portuguese built Fort Jesus. (2mks
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7. Give the meaning of National Intergration. (1mk
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8. Given one constitutional change enshrined in Kenya’s new constitution promulgated in 2010. (1mk
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9. Define the term scramble for Africa. (1mk
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10. State two economic activities that led to European scraaamble for colonies in Africa. (2mks

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11. State two terms of Anglo-German agreement of 1886.(2mks

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12. State two reasons why British used Imperial British East Africa Company to administer Kenya. (2mks.

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13. Give two reasons why Agiriama were opposed to the British colonial rule. (2mks

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14. Name two treaties Lenana signed with the British. (2mks

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SECTION B (45MKS)

Answer all the Questions in this Section.

15. a) State five economic activities of the Boran during the pre-colonial period.(5mks

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b) Describe the social organization of the Maasai during the pre-colonial period. (10 Marks)

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16. a) Give five factors that have promoted industrialization in South Africa. (5mks

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b) Explain five challenges facing modern Urban Centres in Africa. (10mks

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17. a) Give five results of collaboration between Buganda and British during the process of collaboration. (5mks

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b) Give reasons why Samori Toure was defeated by French in 1898. (10mks

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SECTION C (30MKS)

18. a) Give three reasons why National Intergration is important in Kenya. (3mks

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b) Explain six factors that undermine National Unity in Kenya. (12mks

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19. a) Identify five characteristics of Human Rights. (5mks

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b) Explain the importance of United Nations Charter on Human Rights. (10mks

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MTIHANI WA MUHULA WA kwanza

KISWAHILI KIDATO CHA TATU

UFAHAMU: (ALAMA 15)

Soma habari ifuatayo kisha ujibu maswali

Tukilinganisha maisha ya zamani na ya siku hizi tutaona kwamba mambo mengi sana yamebadilika. Si watu wazima, si watoto; sote tumeathirika si haba. Mitindo mipya ya kimaisha na mazingira yanayobadilika kasi ni baadhi tu ya mageuzi haya. Sio katika mavazi, lugha, mienendo, mitazamo, mawazo na mielekeo tu bali katika vipengele vingine vingi.

Mavazi ya zama hizo yalikuwa yakitengenezwa kutokana na maganda ya mti au ngozi za wanyama kama vile mbuzi, kondoo, punda, ngamia, ng'ombe na hata pengine wanyama wa mwituni. Kwa vile kila mtu alifuga wanyama wengi, hakukuwa na shida ya kuzipata ngozi kama hizo wakati wowote ule haja zitokeapo. Magome ya miti yalipatikana mwituni- na kwa kuwa katika enzi hizo hakukuwa na hifadhi za wanyama wa mwitu wala misitu yenyewe, watu waliweza kuingia katika pori lolote na kubambua maganda au kuua wanyama kama walivyohitaji.. mavazi yalikuwa rahisi kupatikana kuliko zama zetu; licha kwa upande wa ndarama hata kwa upande wa sheria pia. Zaidi, katika enzi hizo watu hawakujali kwenda uchi au walipachika kipande tu cha vazi mwilini. Siku hizi gharama ya maisha imepanda mno.

Siku hizi hatuwezi kuwaua wanyama wa mwituni vururu mtende eti kwa chakula, kama walivyofanya babu zetu. Enzi hizo matunda yalining'inia mitini na njaa zilikuwa si nyingi. Chakula kilikuwa bwerere zaidi ya leo. Vinywaji vilikuwa kwa mpango – wazee wa ngambi walikuwa na vinywaji vyao; wazee wa kawaida, wanawake na watoto hirimu hawakusahuliwa. Watu waliheshimiana; vijana walikuwa wenye adabu na walifahamu fika kuwa walipaswa kuwaheshimu wakubwa wao kwa vyoyote vile. Siku hizi vyakula ni haba na ghali na vingi vyazua magonjwa tata.

Siku hizi kuna weledi wengi, hasa wa sayansi. Mja akitaka kwenda safarini huchukua kidubwasha fulani na huyoo! Kaenda zake; barabarani, angani au hata katikati ya kilindi cha bahari. Leo twajivunia ujuzi na maendeleo ya kiafya na madawa yapunguzayo mno unyofu wa binadamu lakini bado kuna

pengo kubwa kati ya vikongwe na watu wa makamo, kinyume na zama hizo. Maisha ya karne hii yamekuwa kama zile nguo zikitwazo bwaga – mtwae”, ambazo hazibali kufumka au kukwajuka..

Hivi leo, mtu akiumwa na kichwa hukimbilia daktari. Mwingine akiumwa na nyoka popote pale, hukimbilia hospitalini akapate sindano ambayo hata jina lake halijui. Zamani mtu alikuwa achimbechime mizizi ya upuzi upuzi, aitafulune na alipata nafuu! Wa kisasa twapuza wa kale eti hawakujua elimu ya usafi tuijavyo sisi, ilhali walikuwa wakichoma miili ya watu waliokuwa wamekufa kwa ukoma au kifua kikuu. Wakati mwingine walikihama kijiji kilichoingiliwa na maafa ya ndui. Hata sasa wagonjwa kama hao hutengwa hospitalini maradhi kama vile UKIMWI bado yakikosa tiba.

Mengi tuliyo nayo sasa mathalan tarakilishi na eropleni yalivumbuliwa au kugunduliwa na hao wa zamani. Fanaka zetu zote na ustawi tulionao asili yake ni watu hao wa zamani. Akili ni mali na kila mtu ana zake. Kuongezeka kwa watu duniani, mchanganyiko au matumizi mabaya ya madawa mengi pamoja na uchafuzi wa hali ya anga pia yameongezea kuleta hasara kubwa. Kweli sikio haliwezi kushinda kichwa.

1. Kulingana na mwandishi, kwa nini maisha ya kale na ya sasa hayalingani? (alama 3)

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2. Kupata mavazi zama zile kulikuwa nafuu. Toa sababu. (alama 2)

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3. Kwa kusema siku hizo, ‘chakula kilikuwa bwerere zaidi ya leo,’ mwandishi anamaanisha nini? (alama 2)

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4. Taja sababu za magonjwa na maafa kukithiri siku hizi licha ya hatua kubwa katika elimu na afya. (alama 3)

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5. Fafanua usemi, ‘sikio haliwezi kupita kichwa,’ kwa mujibu wa taarifa. (alama 2)

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6. Eleza maana ya;

i. Magome-

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ii. Vururu mtende-

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iii. Hazibali-

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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 kumskiliza anachosema, lakini kwa yeye kufuata maadili ya dini na sikukwambia uue ukakubali.

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

Kutokana na hilo la amri, wanaume wengi ndio wamechukua kama tiketi ya kuwanyanyaza wanawake 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 umaskini. Wengine kwa hofu ya kupata changamoto kutoka kwa wake zao wanawakatalia wanawake walio wao kujiendeleza kielimu au kutafuta mwanamke asiyeelimika ili asiweeze 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 kiisalmu inavyosema; mtu anapata thawabu anapotafuta elimu na anatakiwa aitaifute 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 kufikiria kuwa mwanamke ni msaada mkubwa kwao na maendeleo ya taifa lolote; ikiwa leo tuko 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.

This image shows a full page of white paper with horizontal dotted lines, typical of primary-ruled notebook paper. The lines are evenly spaced and extend across the width of the page. There are no margins, text, or other markings present.

This image shows a full page of white paper with horizontal dotted lines. The lines are evenly spaced and run across the width of the page, providing a guide for handwriting or typing. There are no margins, text, or other markings on the page.

SEHEMU YA TATU: MATUMIZI YA LUGHA (ALAMA 40)

iii) (i) Andika katika hali ya umoja. (alama 2)

Masaibu yaliyowapata yaliwafanya wapoteze matumaini.

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(ii) Machaka ya waridi hayazai maua meusi

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iv) Tunga sentensi ukitumia neno ‘mwitu’ kama:-

(i) Kielezi (alama 1)

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(ii) Nomino (alama 1)

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v) Andika katika usemi wa taarifa (alama 2)

Askari: Ulikuwa unaenda wapi uliposhambuliwa?

Jirani: Nilikuwa nikienda sokoni.

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vi) Sahihisha sentensi ifuatayo. (alama 2)

Mtu ambaye aliyechukua kitabu chenye kilikuwa hapa arudishe.

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vii) Bainisha mofimu katika maneno haya (alama 1)
(i) Samaki

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(ii) Mtu

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viii) Andika sentensi ifuatayao katika hali ya kuamrisha. (alama 1)

Tafadhali, acheni kucheka ovyo.

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ix) Changanua kwa kutumia mistari. (alama 4)

Raisi mpya aliwahutubia wananchi jana.

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x) Taja ala nne za kutamkia. (alama 2)

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xi) Majina haya yako katika ngeli gani? (alama 1)

i) Uga.....

ii) Huzuni

xii) Tambulisha viambishi katika kitenzi:- (alama 3)

Kitakachotolewa

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xiii) Toa maana mbili za sentensi ifuatayo. (alama 2)

Majoka alimpigia mpira

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xiv) Andika katika hali ya wingi. (alama 2)

Mimi ndimi niliyepanga mkutano huu.

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xv) Andika katika hali ya udogo. (alama 2)

Mtoto amekiwa na mama yake.

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xvi) Andika upya kwa kuzingatia maagizo. (alama 2)

Mbwa aliyepotelea mwiwuni alipatikana kidimbwini.

(Anza: Kidimbwini...)

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xvii) Kinyume cha:-

Jogoo akiwa juu ya banda aliwika na kusikika kote.....(alama 2)

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xviii) Fafanua matumizi matatu ya neno 'kwa'. (alama 3)

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xix) Vihisishi hivi hutumika katika hali gani? (alama 2)

iii. Makiwa

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iv. Lahaula

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xx) Ainisha muundo wa silabi katika maneno yafuatayo. (alama 3)

i) Tandazwa

ii) Eua

iii) Chichiri

xxi) Ainisha vitenzi katika sentensi ifuatayo. (alama 2)

Babu alikuwa akitusimulia hadithi

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4. ISIMU JAMII (ALAMA 10)

iii) Lahaja ni nini? (alama 2)

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iv) Sajili ni nini? (alama 2)

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v) Taja wahusika wawili katika rejesta ya hotelini. (alama 2)

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vi) Eleza kwa kutoa mifano sifa nne za rejesta ya shuleni/darasani. (alama 4)

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NAME:

SCHOOL:

ADM NO: SIGN: DATE:

HYBRID FORM 3 END TERM 1 SERIES 1 EXAMS

FORM 3 MATHEMATICS END TERM EXAMS Kenya Certificate of Secondary Education

TERM1

1. Evaluate and simplify without using a calculator.

$$\frac{3\frac{1}{5} + \frac{1}{4} \text{ of } 3\frac{1}{2} - 5\frac{1}{6}}{2\frac{2}{3} - 1\frac{2}{5} \div 1\frac{1}{3} + 3\frac{3}{4}} \quad (3\text{mks})$$

2. The sum of interior angles of a polygon is 1980° . Find the number of sides the polygon has.(2mks)

3. Simplify as far as possible by rationalizing the denominator. (3mks)

$$2 + \sqrt{3} \frac{1 + \sqrt{2}}{2 - \sqrt{3}} - \frac{1 - \sqrt{2}}{\sqrt{3}}$$

4. Use table of reciprocal only to work out (3mks)

$$\frac{3}{0.6735} + \frac{13}{0.156} \text{ —————}$$

5. Solve $3x - 2 \leq 5x - 6 < 2x + 12$ and represent your solution on a number line .
Hence state the integral values. (4mks)

6. Evaluate without using mathematical tables. (3mks)

$$2 \log 5 - \frac{1}{2} \log 16 + 2 \log 40$$

7. Given that $P=2.6$ cm, $Q=4.0$ cm and $R=7.8$ cm. Find the percentage error in the expression. (3mks)

$$\frac{P + Q}{R}$$

8. From a point 20m away on a level ground the angle of elevation to the lower window line is 29° and the angle of elevation to the top line of the window is 32° . Calculate the height of the window. (3mks)

9. The size of an interior angle of a regular polygon is 156° . Find the number of sides of the polygon. (2mks)

.

10. The number 5.81 contains an integral part and a recurring decimal. Convert the number into an improper fraction and hence a mixed fraction. (3mks)

11. Simplify. (3mks)

$$\frac{2y^2 - xy + x^2}{2x^2 - 2y^2}$$

12. Given that $\sin A = \frac{4}{5}$, $\cos B = \frac{5}{12}$ A and B are acute angles. Without using tables calculate
 $\sin B \cos A + \sin A \tan B$ (3mks)

13. A two digit number is such that the sum of the digits is 11 where the digits are reversed the number exceed the original number by 9. Calculate the original number. (3mks)

14. Two boys and a girl shared some money. The elder boy got $\frac{4}{5}$ of it, the younger boy got $\frac{2}{5}$ of the remainder and the girl got the rest. Find the percentage share of the younger boy to the girls share. (4mks)

15. Solve the following simultaneous equations. (4mks)

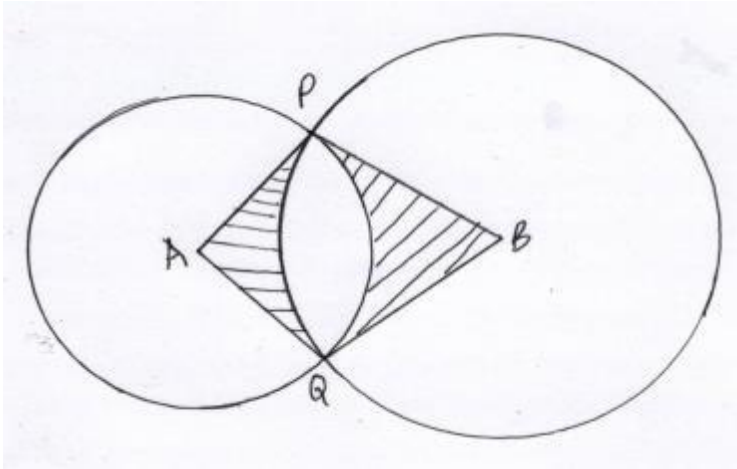
$$x^2 - xy = 2$$

$$x + y = 3$$

16. Use the table of squares, square roots and reciprocals to evaluate to 3 decimal places the question below. (4mks)

$$\frac{10 \quad + (1.64)^2}{\sqrt{0.625}}$$

17. The diagram below shows two circles centre A and B which intersect a point P and Q. Angle PAQ = 70° and $\angle PRQ = 40^\circ$ and PA = AQ = 8 cm.



Use the diagram to calculate to 2 d.p

(a) the length PQ (2mks)

(b) The length PB (2mks)

(c) Area of minor segment circle centre A. (2mks)

(d) Area of the shaded region (4mks)

18. The following table shows the heights to the nearest centimeter of some maize plants in a research farm.

Height (cm)	80-84	85-89	90-94	95-99	100-105	105-109	110-114	115- 119
Frequency	5	14	16	17	24	12	11	4

(a) State the modal class (1mk)

(b) Find to 2 d.p

(i) Mean height (4mks)

(ii) The difference between the mean height and the median height. (5mks)

19. (a) Three points A(0,4) B(2,3) and C(-2, -1) are vertices of a triangle. Find ;

(i) The gradient of AC (1mk)

(ii) The gradient of the perpendicular bisector of line AC (1mk)

(iii) The coordinates of the mid-point of line AC. (1mk)

(b) (i) the gradient of AB (1mk)

(ii) The gradient of the perpendicular bisector of lines AB (1mk)

(iii) The coordinates of the mid-point of AB (1mk)

(c) (i) Find the equation of the perpendicular bisector of AC (1mk)

(ii) The equation of perpendicular bisector of AB (1mk)

(iii) Hence find the coordinates of the circumcentre of the triangle.(2mks)

20. The position vectors of points A and B with respect to the origin O, are $\begin{pmatrix} -8 \\ 5 \end{pmatrix}$ and $\begin{pmatrix} 12 \\ -5 \end{pmatrix}$ respectively. Points M and N are the mid points of AB and OA respectively.

(a) Find

(i) The coordinates of N and M (3mks)

(ii) The magnitude of $\vec{NM}$. (3mks)

(b) Express vector $\vec{NM}$ in terms of $\vec{OB}$ (1mk)

(c) Point P maps onto P^1 by a translation $\begin{pmatrix} -5 \\ 8 \end{pmatrix}$ given that $\vec{OP} = \vec{OM} + 2\vec{MN}$, find the coordinates of P^1 (3mks)

21. The information of a piece of land was entered in a field book as shown below.

	180	F
E 50	120	
	90	74 D
C 35	55	
	30	40 B
A	0	

(a) Sketch the map of the land (3mks)

(b) Find the area of the land in hectors. (7mks)

22. (a) Draw the graph of the function $y=2x^2 + 4x - 3$ on the graph paper provided for $-4 \leq x \leq 2.5$ (5mks)

(PROVIDE A GRAPH PAPER)

- (b) Use your graph to solve the equations

(i) $2x^2 + 4x - 3 = 0$ (2mks)

(ii) $x^2 + x - 5 = 0$ (3mks)

23. The base of an open rectangular tank is 3m by 2.5 m and its height is 4m.

(a) Calculate

(i) The capacity of the tank in litres. (3mks)

(ii) The total surface area in m^2 of the tank. (2mks)

(b) An open cylindrical tank has an equal capacity and same height as the rectangular tank in (a) above. Calculate ;

(correct to one decimal places)

(i) The radius of the cylindrical tank. (3mks)

(ii) The total surface area, in m^2 , of the tank. (2mks)

24. Transline bus left Nairobi at 8.00 and travelled Kisii at an average speed of 80km/h. Given that the distance between Nairobi and Kisii is 400km, calculate;
(a) The time the car arrived in Nairobi. (3mks)

(b) The time the two vehicles met. (3mks)

(c) The distance from Nairobi to the meeting point. (2mks)

(d) The distance of the bus from Kisii when the car arrived in Nairobi. (2mks)

NAME:

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ADM NO: SIGN: DATE:

HYBRID FORM 3 END TERM 1 SERIES 1 EXAMS

FORM3 PHYSICS

END OF TERM 1

TIME 2 HRS

PHYSICS FORM 3

SECTION A (25 MARKS)

1. A Burette has an initial reading of 22.5cm^3 . Determine the final reading after a liquid of volume 11.3 cm^3 is removed from the burette. (2mks)

2. In a ball and ring experiment, the ball goes through the rings at room temperature. When it is heated it does not go through the ring, but when left on the ring for some time, it goes through. Explain this observation. (2mks)

3. Distinguish between speed and velocity. (2mks)

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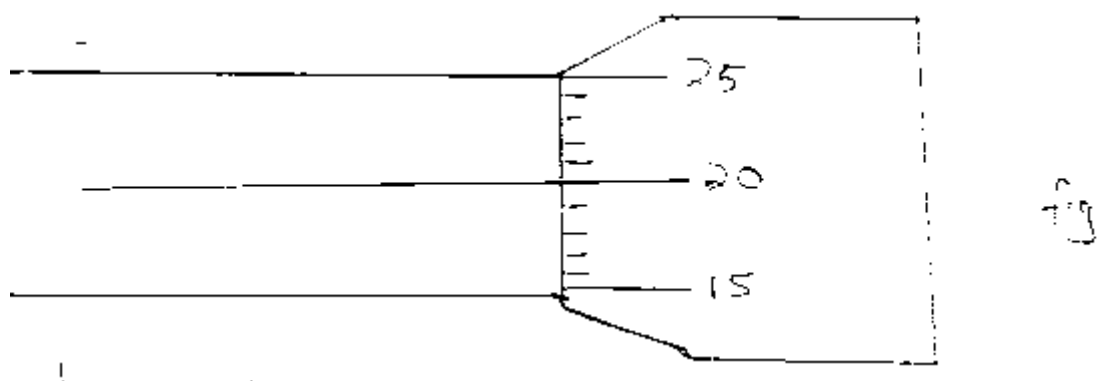
4. State how the pressure in a moving fluid varies with speed of the fluid. (1mk)

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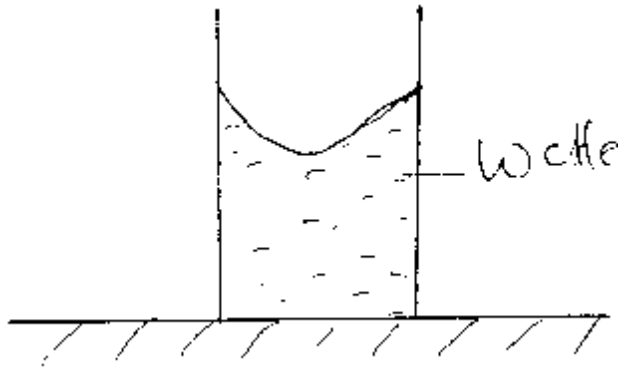
5. Fig 1 Shows a section of partially graduated micrometer screw gauge.



Insert divisions on the sleeve to represent a reading 5.70 mm (2mks)

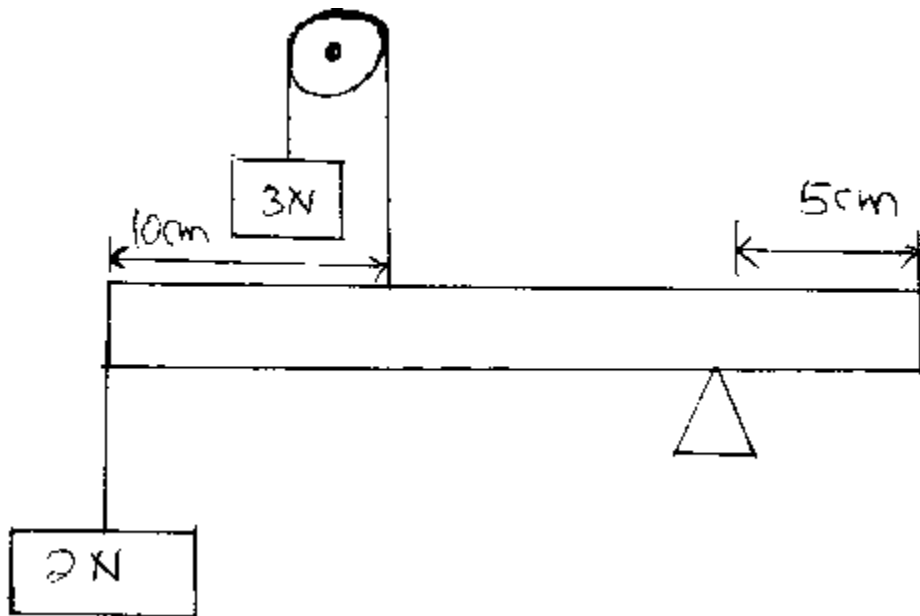
6. The fig 2 below shows a beaker containing water placed on a flat bench.

State and explain the changed in stability of the beaker when the water freezes to ice. (2mks)



7. Two table tennis balls hang at the same level suspended from a thread a short distance apart. A stream of Air is blown between the balls. Explain what happens to the balls. (2mks)

8. A uniform half meter rule is supported by force of 3N and 2N as shown below.



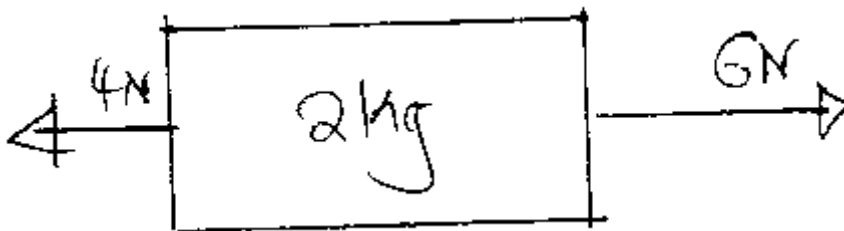
Determine the weight of the metre rule. (3mks)

9. A stone and a feather are dropped from a building 20m tall if they reach the ground at the same time. Find;

(a) The velocity with which they reach the ground (take $g=10\text{m/s}^2$) (2mks)

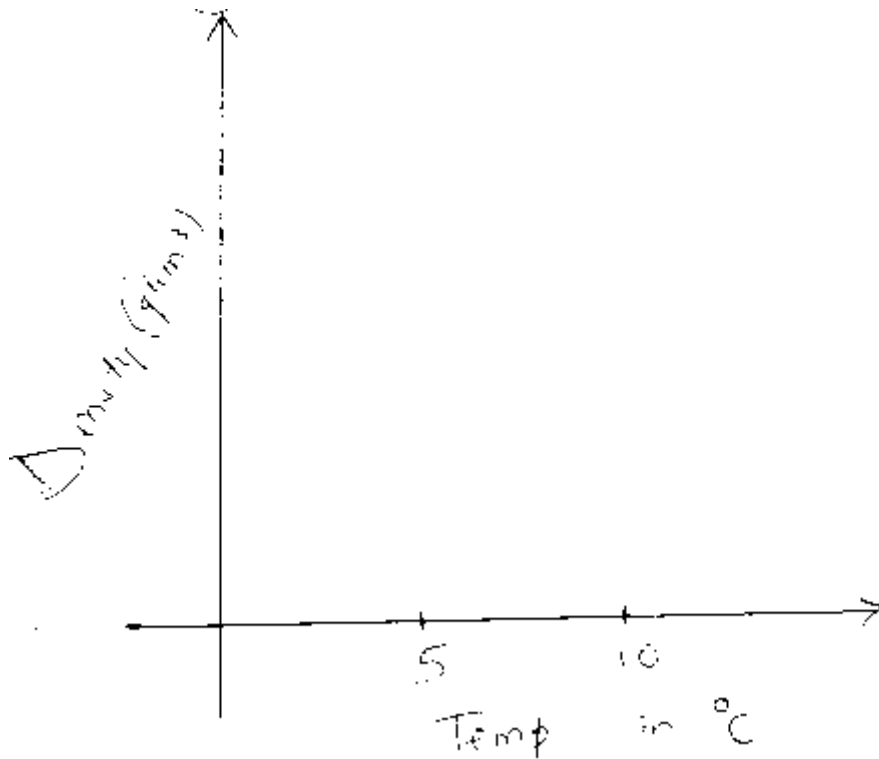
(b) The condition under which they fall. (1mk)

10. The forces act on a trolley as shown below.



Find the acceleration of the trolley (2mks)

11. On the axes below, sketch the graph of density of water against temperature (2mks)



12. Water flows in a pipe of cross-sectional area of 10cm^2 of a velocity of 0.4m/s . If the pipe has a jet at the end with area of cross section 2.5cm^2 . Find the velocity of water jetting out. (2mks)

SECTION B: 55 MARKS

13. The following results were found by a student in a bid to determine the relationship between the extensions of a spring to the load hooked on its end

Mass (kg)	0	0.02	0.04	0.06	0.08	0.10
Reading (mm)						
Force (N)						
Extension (m)						

(a) (i) Complete the table above for the values of force F (N) and Extension e (cm) (2mks)

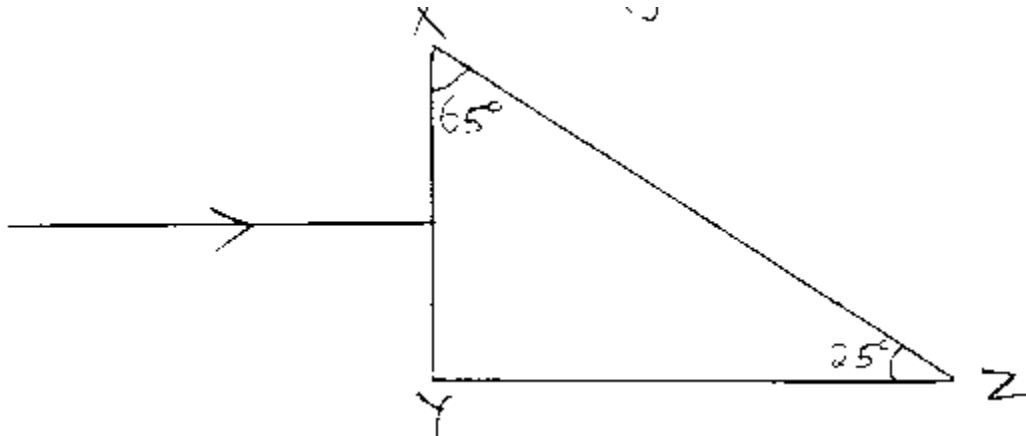
(ii) On the grid provided, plot a graph of force against extension (5mks)

(PROVIDE A GRAPH PAPER)

(iii) From the graph determine the spring constant (2mks)

(b) What would be the extension when a mass of 0.045 kg is hanged from two such springs in series? (2mks)

14. The diagram below shows a glass prism and incident ray striking the surface XY



(a) (i) Indicate on the diagram the path of the emergent ray. (3mks)

(ii) Calculate the refractive index of the glass prism given that the critical angle of glass is 42° . (3mks)

(b) State ONE condition necessary for total internal reflection to occur. (1mk)

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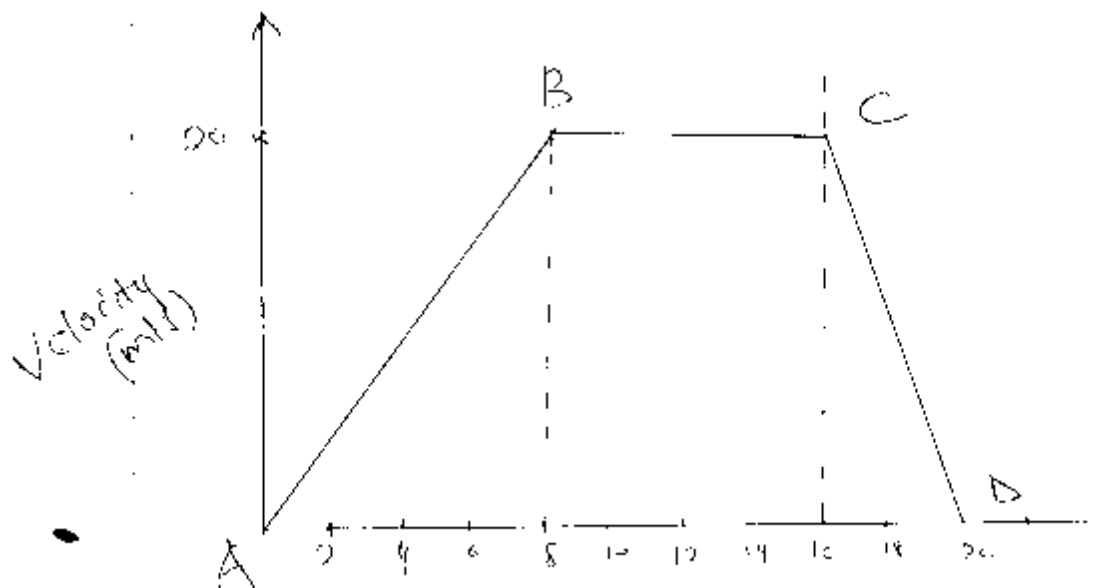
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(c) State ONE application of total internal reflection (1mk)

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15. The figure below shows a velocity the graph for the motion of a body of mass 5kg.



(a) Use the graph to determine the

(i) Displacement of the body after 12 seconds (3mks)

(ii) Acceleration after point C (3mks)

(iii) Force acting on a body in part a (ii) (3mks)

(b) Sketch a displacement time graph for the motion from point B to D (2mks)

16. (a)(i) State Newton second law of motion (1mk)

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(b) A body of mass 100kg is accelerated from a velocity of 2m/s to 5 m/s in 6 seconds.
Calculate

(i) Its initial momentum (2mks)

(ii) Its final momentum. (2mks)

(iii) The resultant force acting on the body. (2mks)

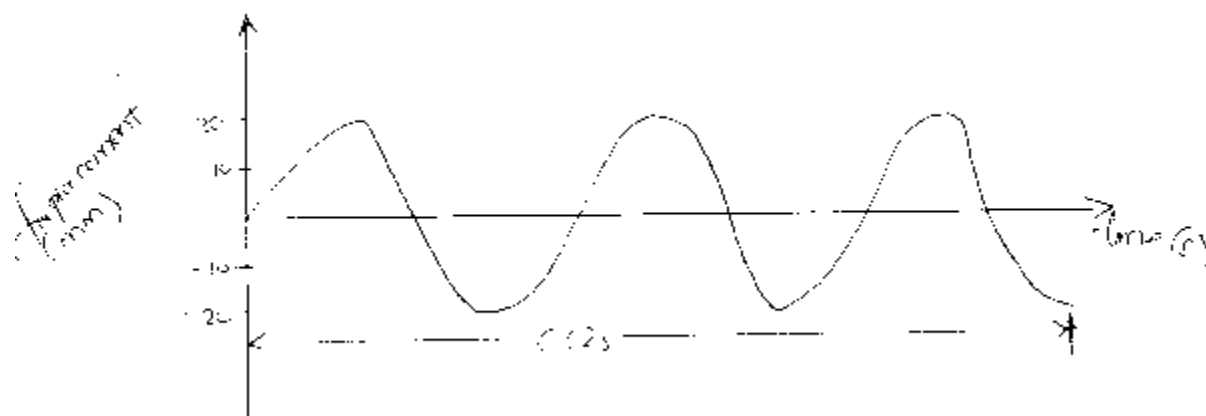
(c) A bullet of mass 0.01kg travelling horizontally at 100m/s. penetrates a fixed block of wood and comes to rest in 0.02 second. Calculate.

(i) The distance of penetration of the bullet into the wood. (3mks)

(ii) The average retarding force exerted by the wood on the bullet. (2mks)

17. A student stands at a distance 400 from a wall and claps two pieces of wood. After the first clap the student claps whenever an echo is heard from the wall. Another student starts a stopwatch at the first clap and stops it after the twentieth clap. The stopwatch records a time of 50 seconds. Find the speed of sound. (3mks)

18. The figure below show a displacement time graph for a wave motion.



What is the frequency of the wave? (2mks)

19. Give a reason why water is not a suitable liquid for use in a barometer. (1mk)

20. An oil drop of radius 0.42 mm when placed in water spreads out to form a circular patch of radius 42 cm. using this information. Calculate.

(a) (i) Volume of oil drop (2mks)

(ii) Area of oil patch. (2mks)

(iii) Diameter of oil molecule (2mks)

(b) State one assumption made in this experiment (1mk)

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