F2 ENDTERM 1 EXAMS

ALL SUBJECTS

Well organized standard set of ENDTERM 1 exams to FORM 2 students in All High Schools.

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END OF TERM 1 EXAMS

BIOLOGY

FORM TWO

TIME: 2 HOURS

NAME…… ADM NO:…….

SIGN……. INDEX NO:……

DATE;……..

INSTRUCTIONS TO CANDIDATES:

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

1. Define the following terms. **(2mks)**

i) Taxon

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ii) Taxonomy

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2. A donkey and a horse can breed and produce a young one called a mule. Explain why they do not belong to the same species. **(2mks)**

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3. Give **one** reason for each of the following operations in microscopy work. **(3mks)**

i) Adding a drop of iodine solution

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ii) Covering the specimen with a cover slip.

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iii) Cutting the specimen using a sharp blade.

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4. The table below shows the concentration of mineral A and B in sea water and in the cell sap of a certain sea weed.

Mineral	***Concentration in sea water in (ppm)***	***Concentration in the cell sap in (ppm)***
A	16	108
B	39	11

a) Suggest the physiological process by which mineral A and B were absorbed by the sea weed.

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..... **(2mks)**

b) State and explain the mineral that would fail to be absorbed if the sea weed was treated with respiratory poison. **(2mks)**

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5. Differentiate between fats and oils. **(2mks)**

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6. Name the element contained in all proteins. **(1mk)**

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7. The diagram below shows the dentition of an animal.

i) Identify the mode of feeding of the animal with the dentition above. **(1mk)**

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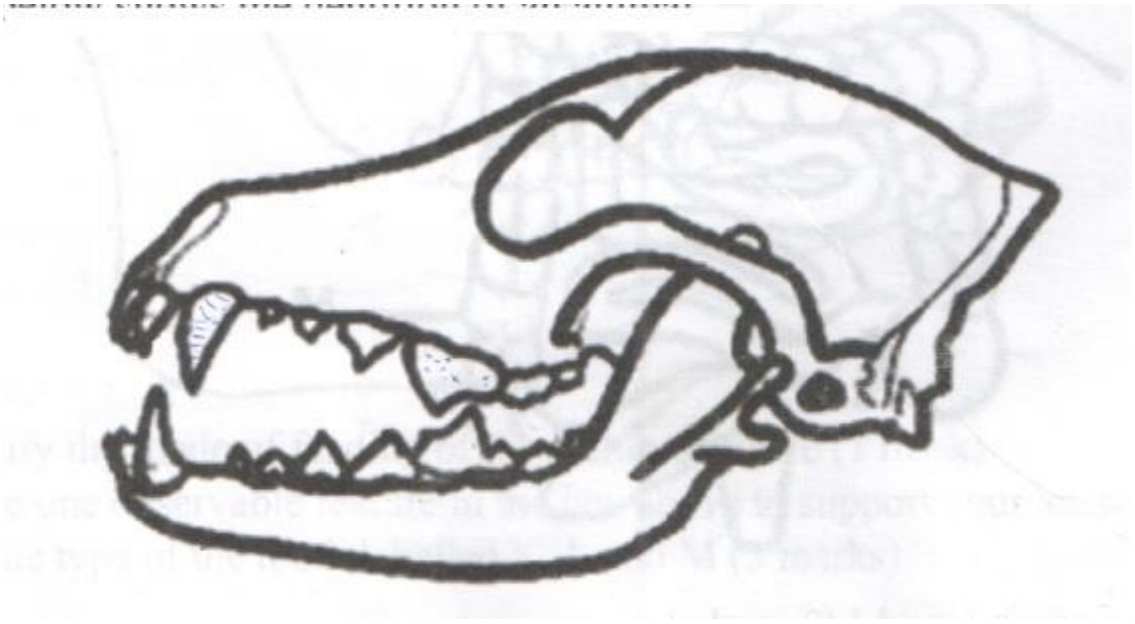
ii) Give **two** reasons for your answer in (i) above. **(1mk)**

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8. State **two** functions of mucous produced in the gastro-intestinal tract. **(2mks)**

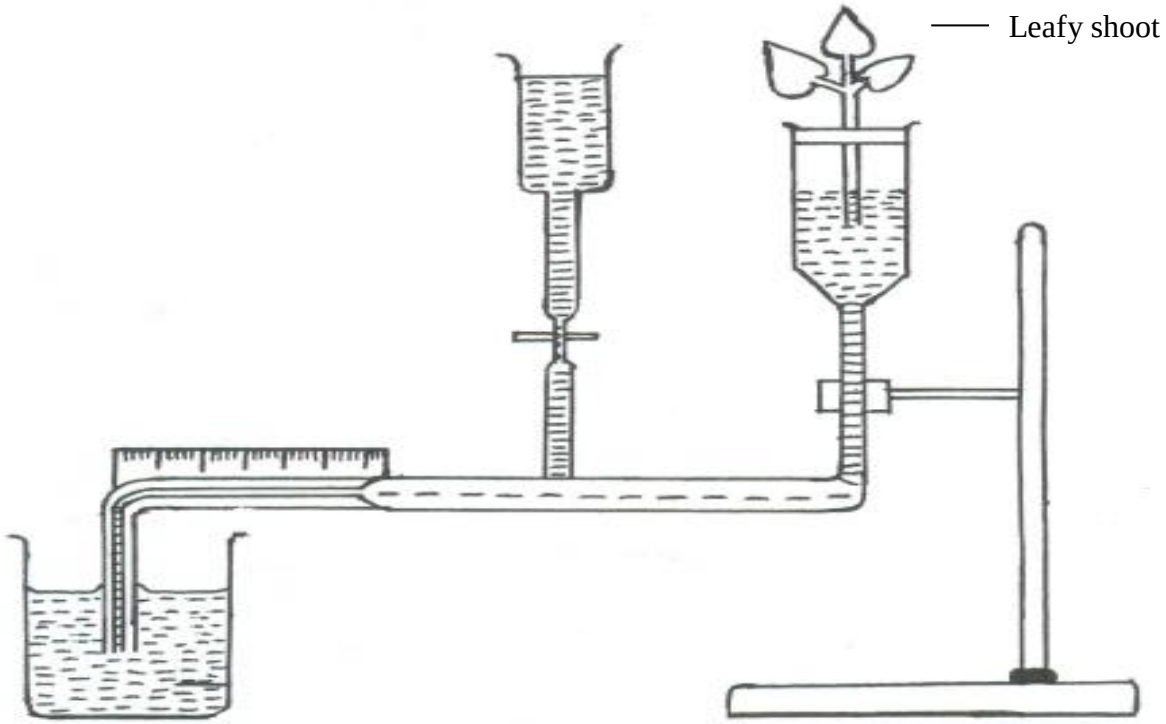


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9. The diagram below shows a set-up used to investigate a certain process in plants.



i) Identify the process being investigated. **(1mk)**

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ii) Name the equipment represented by the diagram above. **(1mk)**

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iii) Give **two** precaution that should be taken when setting up this experiment. **(2mks)**

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10. Explain the following concepts:

i) Some plants fold their leaves in dry weather. **(2mks)**

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ii) Leaves of plants from arid areas have fewer stomata on the upper leaf surface. **(2mks)**

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11. A lady had her veins swollen at the back of the legs. The swellings are painful.

a) Name this condition**.....**

(1mk)

b) What causes the condition**?.....**

(1mk)

c) How can the condition be corrected?

.....(1mk)

12. State **three** differences between open and closed circulatory system. **(3mks)**

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13. In what chemical form is oxygen transported in the blood. **(1mk)**

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14. Give **two** protective roles of mammalian blood. **(2mks)**

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15. Name:

a) A vitamin that is needed in blood clotting

.....(1mk)

b) A metal ion needed in blood clotting.

.....(1mk)

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c) An anti-clotting factor found in mammalian blood that prevents blood from clotting before an injury. **(1mk)**

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d) Two enzymes needed in blood clotting. **(2mks)**

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16. State **two** ways in which blood clotting is beneficial to humans. **(2mks)**

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17. State one:-

i) Advantage of people having blood group O. **(1mk)**

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ii) Disadvantage of people having blood group O. **(1mk)**

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18. What is gaseous exchange? **(2mks)**

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19. Give two reasons why gaseaous exchange is important in human beings. **(2mks)**

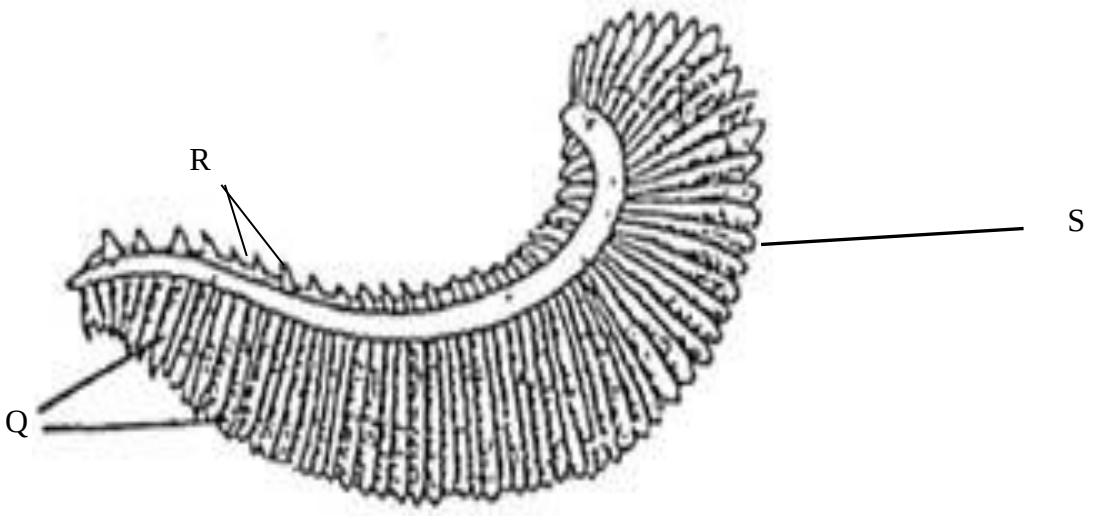
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20. The diagram below shows the structure of a gill of a bony fish.



a) Name the structure labeled Q, R and S. (3mks)

Q.....

R.....

S.....

b) State the function of structure Q, R and S. (3mks)

Q;.....

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R.....

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S.....

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Give **four** ways in which structure Q is adapted to its functions. (4mks)

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21. State **two** theories that explain the mechanisms of opening and closing of the stomata. (2mks)

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22. Name the structure or surfaces involved in the gaseous exchange in the following organisms. (4mks)

a) Fish .....

b) Insect**s**.....

c) Plan**t**.....

d) Amoeba.....

23. State **three** factors that affect the rate of breathing in human beings. (3mks)

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24. Describe what happens during the light stage of photosynthesis. (3mks)

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END OF TERM 1 EXAMS

AGRICULTURE

FORM TWO

TIME: 2 HOURS

NAME…… ADM NO:…….

SIGN……. INDEX NO:……

DATE;……..

INSTRUCTIONS TO CANDIDATES:

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

1. a) Give the meaning of the following terms.

   i) Plantation farming **(1mk)**

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   ii) Large scale farming **(1mk)**

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   (b) Give two reason why ranching is important in the arid and semi- arid areas of Kenya.
   (2mk)

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2.Name **two** processes through which carbon is returned to the atmosphere in the carbon cycle **(2mk)**

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3. Name **two** methods of layering. **(2mk)**

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4. A farmer is to apply a compound fertilizer 20-30-0 on a vegetable plot measuring 5m long by 4m wide at the rate of 200kg/ha. Calculate the amount of fertilizer the farmer requires for the plot (show your working). **(3 marks)**

5. State **four** advantages of drip irrigation. **(4 marks)**

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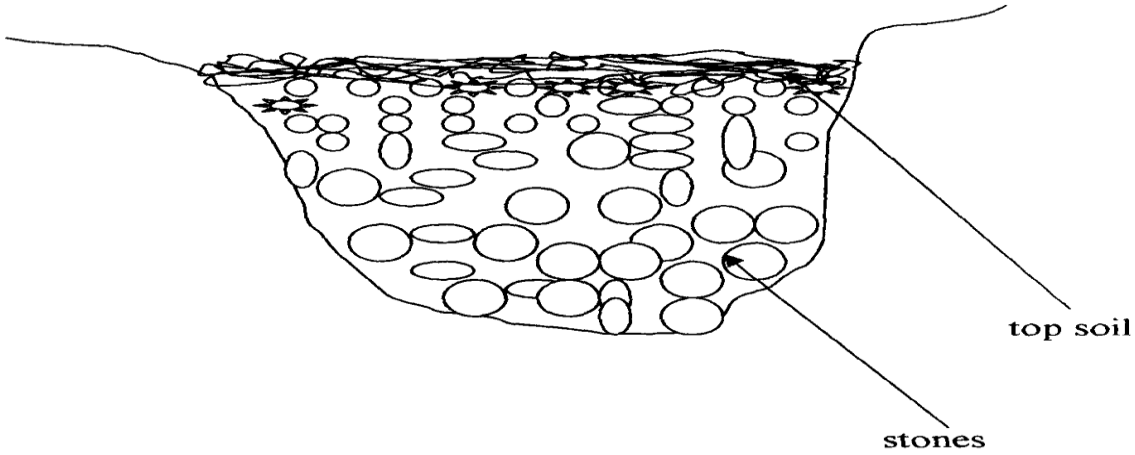
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6. Study the diagram below then answer the questions that follow:



a) Identify the method of drainage above. **(1mk)**

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b) State other **three** methods used to drain swampy areas. **(3mks)**

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c). Give **four** importance of drainage. **(4mks)**

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7. State the correct use of each of the following tools. **(2mks)**

a) Tin snip

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b) Cold chisel

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8. Give **two** ways in which agriculture offer employment. **(2 marks)**

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9. Distinguish between minimum tillage and sub-soiling as used in agricultural production**(2mks)**

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10. Name **three** types of farm records that a sheep farmer should keep **(3mks)**

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11. Name **three** vegetative materials used in propagation of pineapples **(3mks)**

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12. Give **three** disadvantages of mulching in crop production **(3 mks)**

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13. State **four** factors that influence spacing in crops. **(4 marks)**

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14. State **four** positive effects of high temperatures on crop production. **(4mark)**

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15. Give **four** ways of water harvesting in a farm. **(4 marks)**

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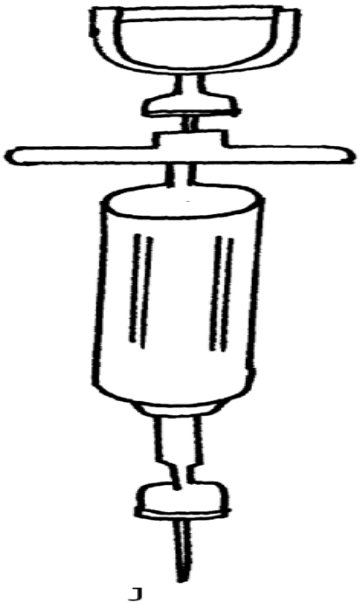
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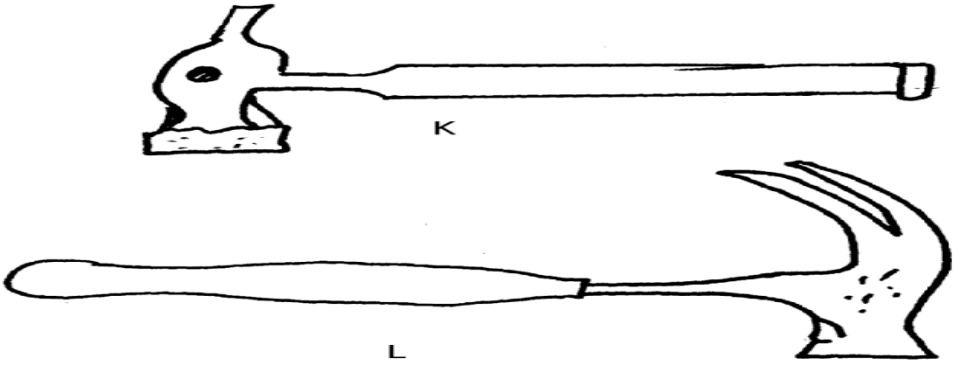
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16. Identify the tools and equipment drawn below.



J



K

L

i) Identify tools/equipment J, K and L **(3 mks)**

J.....

K.....

L.....

ii) State the use of J and K **(2mks)**

J.....

K.....

iii) Give **one** functional similarity between K and L. **(1mk)**

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iv) Give **two** maintenance practices that should be carried out in too J. **(2mks)**

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17. Explain **six** management practices that can be carried out by a farmer to maintain soil fertility on his farm. **(12 marks)**

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END OF TERM 1 EXAMS

BUSINESS STUDIES

FORM TWO

TIME: 2 HOURS

NAME……ADM NO:……

SIGN……. **INDEX NO:……**

1.State four characteristics of human wants **(4mks)**

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2.State four components of business studies **(4mks)**

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3.State four features of a bill of exchange **(4mks)**

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4.Highlight five features of an effective warehouse **(5mks)**

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5.State five problem of using rail as a transport means **(5mks)**

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6.State four types of advertising **(4mks)**

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7. Outline four elements of transport. **(4mks)**

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8.State four securities traded at the Nairobi stock exchange **(4mks)**

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9.State four activities found in primary level of production **(4mks)**

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10.State four circumstances under which a cheque is appropriate as a means of payment **(4mks)**

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11.Highlight six factors a trader would consider when choosing a means of communication **(6mks)**

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12.State four characteristics of mail order stores **(4mks)**

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13.Highlight four disadvantages of operating a closed office layout**(4mks)**

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14.Highlight four unethical issues on product promotion **(4mks)**

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15.State three factors of production **(3mks)**

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16.State four advantages of written communication **(4mks)**

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17.State three characteristics of an entrepreneur **(3mks)**

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END OF TERM 1 EXAMS

CHEMISTRY

FORM TWO

TIME: 1 ½ HOURS

NAME……ADM NO:……

SIGN…… INDEX NO:……

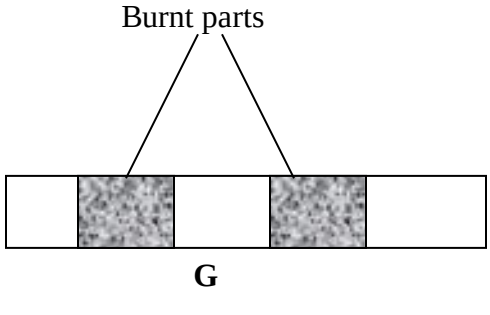
INSTRUCTIONS TO STUDENTS:

*a) Write your **name** and **form** in the spaces provided **above**.*
*b) **Sign** and write the **date** of examination in the spaces provided **above**.*
*c) Answer **ALL** the questions in the spaces provided.*
*d) All working **must be** clearly shown where necessary*
e) Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing
f) Candidates should answer the questions in English.

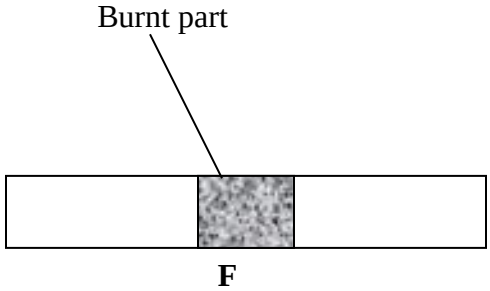
For Examiner's Use Only

Questions	Maximum Score	Candidate's Score
1 – 12	50	

1.) Wooden splints **F** and **G** were placed in different zones of a Bunsen burner flame. The diagram below gives the observations that were made.



G



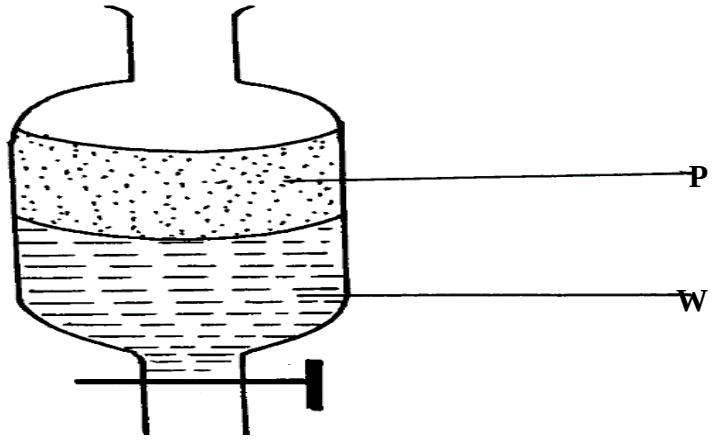
F

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(a) Explain the difference between **F** and **G** (2marks)

(b) Name the type of flame that was used in the above experiment (1mark)

2.) A mixture of hexane and water was shaken and left to separate as shown in the diagram below



State the identity of; (2marks)
(i) **P** ……..…….. (ii) **W** ……..…

3.) Rusting is a destructive process in which iron is converted to hydrated iron (III) oxide.

a) State

i) Two conditions necessary for rusting to occur. (2 marks)

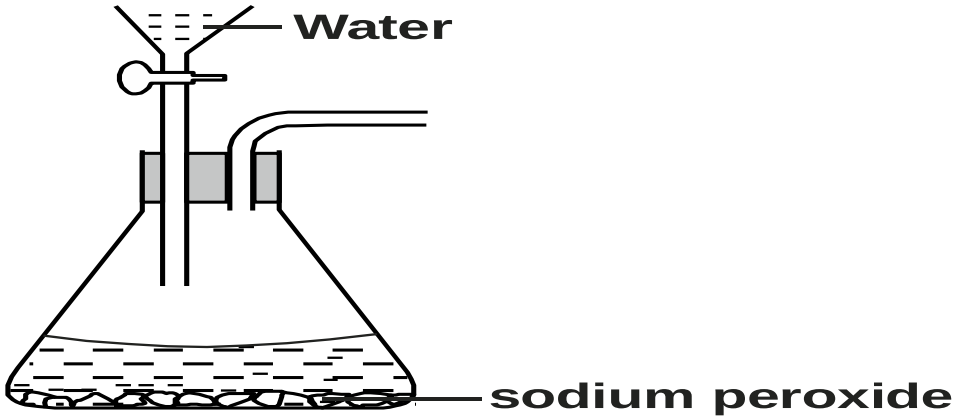
ii) Two methods used to protect iron from rusting other than galvanizing. (2 marks)

b) Explain why it is not advisable to wash vehicles using sea water. (2 marks)

c) Explain why galvanized iron objects are better protected even when scratched. (2 marks)

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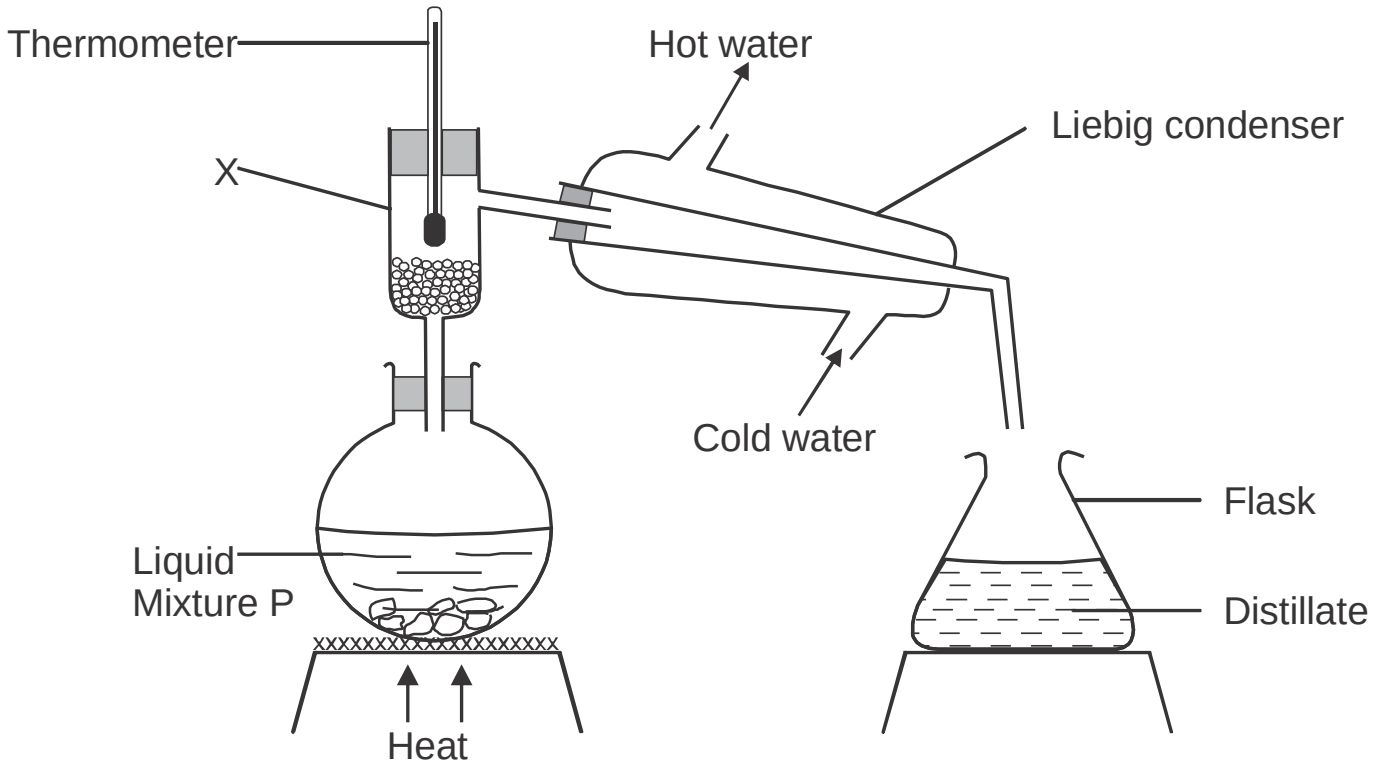
d) The set-up below was used to prepare oxygen gas. Complete the diagram to show how a sample of the gas can be collected. (2marks)



i) Write a word equation for the reaction producing oxygen gas. (1 mark)

ii) How can the rate of production of gas be increased using the set-up above? (1 mark)

4. Study the diagram below and answer the questions that follow. The diagram shows the method used to separate component of mixture P.



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a) Name X .....(1mark)

b) What is the name given to the method used in separation of mixture P ? (1mark)

c) What would happen if the inlet and outlet of water were interchanged ?(1mark)

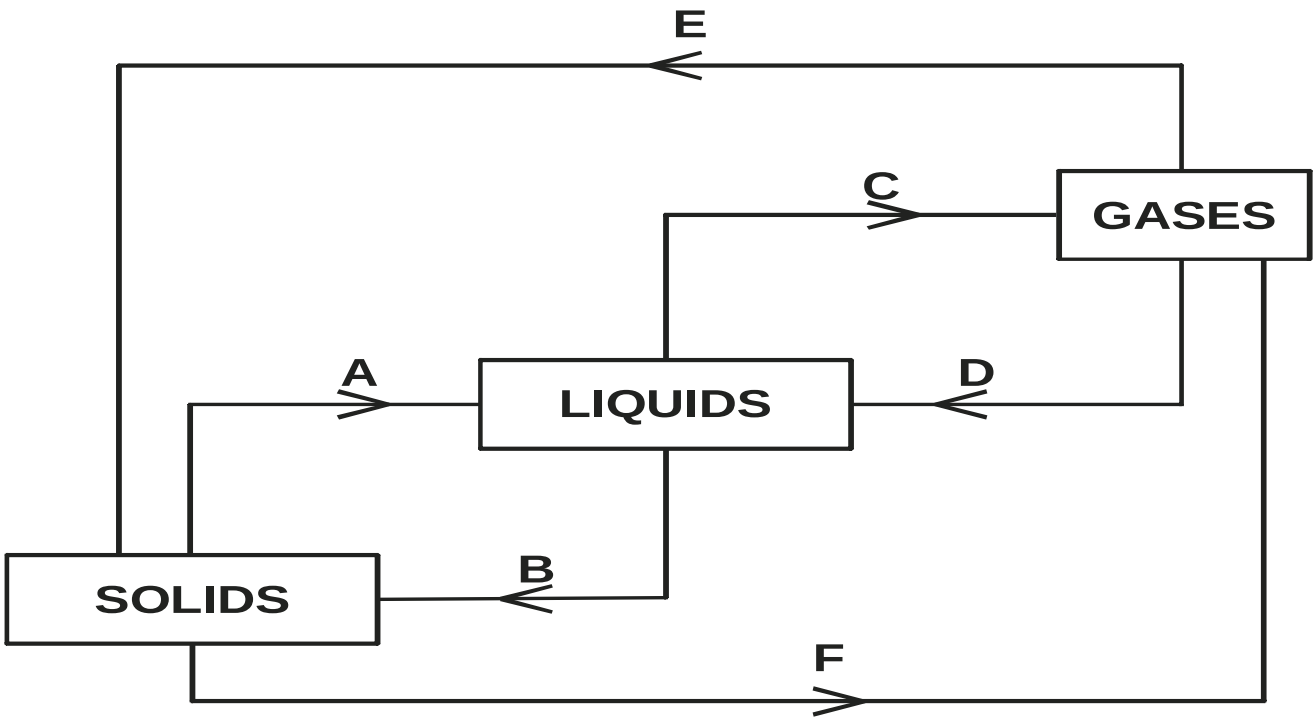
d) Which physical property is used to separate mixture P? (1 mark)

5. Solutions may be classified as strongly basic, weakly basic neutral weakly acidic, strongly acidic. The information below gives solution and their pH values. Study it and answer the questions that follow.

Solution	pH value
B	0.5
C	6
D	14.5

Classify the solution in the table above using the stated classification B, C & D (3 marks)

6. The following diagram shows the effects of heat on the physical states of substances.



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(a) Identify the processes represented by the letters A, B, C, D, E and (6marks)

(b) Name two substances that undergo the process labelled E and F. (1mark)

(c) Name a method that can be used to extract the following:-
(i) Common salt from a salt solution. (1 mark)

(ii) Paraffin from crude oil. (1 mark)

7.) State two reasons why most of the laboratory apparatus are transparent. (2 marks)

8.) Explain why flower extracts cannot be used as reliable acid base indicators. (2 marks)

9.) What is meant by the terms: (2 marks)
(i) Atomic number

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(ii) Mass number

10.) A mixture contains Iron (III) Chloride, calcium chloride and iron filings. Describe how one can separate and recover the substances in the mixture.(3marks)

11. Hydrogen can be prepared by reacting zinc with dilute hydrochloric acid.

a) Write a word equation for the reaction. (1mark)

b) Name an appropriate drying agent for hydrogen gas (1mark)

c) Explain why copper metal cannot be used to prepare hydrogen gas (2marks)

d) Hydrogen burns in oxygen to form an oxide.

(i) Write a word equation for the reaction (1mark)

e) Give **two** uses of hydrogen gas. (2marks)

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12.) Determine the number of neutrons in $^{24}_{12}Mg$ (1mark)

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END OF TERM 1 EXAMS

CHRISTIAN RELIGIOUS EDUCATION

FORM TWO

TIME: 2 HOURS

NAME…… **ADM NO:**……

SIGN…… **INDEX NO:**……

1. State six effects of the Bible translation. **(6mks)**

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2. Identify the idolatry practices during the time of Elijah. **(6mks)**

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3. Outline the factors that contribute to harmony and mutual responsibility in the African community. **(6mks)**

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4. Outline the Old Testament concept of the Messiah as fulfilled in the New Testament. **(6mks)**

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5. Describe the annunciation of the birth of john the Baptist to Zachariah. (luke 1:5 – 25) (**6mks)**

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6. Outline four preaching's of John the Baptist. Luke 3: 1- 20)

(4mks)

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7. Give reasons why Jesus accepted to be baptized and yet He was sinless.

(6mks)

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8. Identify the temptations that young people face in Kenya today**.** **(6mks)**

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9. Outline reasons why Jesus was rejected at Nazareth, His home town. (luke 4: 16 – 30) **(6mks)**

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10. Relate the healing of the man with an evil spirit. (Luke 4: 31- 37)

(6mks)

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11. State the lessons Christians learns from the call of the first disciple.

(6mks)

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12. State six teachings of Jesus on the qualities of a true discipleship from the sermon on the plain**.** **(6mks)**

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HAPPY HOLIDAY

STAY SAFE

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END OF TERM 1 EXAMS

ENGLISH

FORM 2

NAME……ADM NO:……

SIGN…… INDEX NO:……

Answer All Questions In The Spaces Provided

Use the most appropriate word to fill in each blank spaces in the following passage(10mks)
Okonkwo was tall_____huge and his bushy eyebrows and wide nose gave him a_____severe look. He breathed_____and it was said that, when he slept, his wives and_____in the outer houses could_____him breath. when he_____was going to pounce on somebody. And he did pounce on people quite often.he_____a slight stammer and whenever he was angry and could not get his words out quickly enough ,he would_____his fist .He had_____patience with unsuccessful men. He had no patience with his father.

B.(i)identify five pairs of words that have the same pronunciation from the list below(5mks)

Whale	rain	pause
Way	tail	draft
Why	missed	wail
Reign	mist	ore
Pose	air	till
Bawl	ball	draught

(ii) Identify the silent in the consonant in the following word (5mks)

a) Wednesday
b) Buffet
c) Resign
d) Isle
e) Wrist

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C.COMPREHENSION

Read the passage below and answer the questions that follow (10mks)

Chief Ullini's daughter.

Every dark cloud were gathering in the late afternoon sky. There was stillness in the air, a stillness that threatened a storm.

The boatman who rowed people across the lake was making fast his boat when a young man and a woman approached him in a great hurry. They were desperate to cross the lake, they said, and urged him to take them. He shook his head and pointed to the sky he told them that the storm was soon calming and that they should wait until it blew over. It would be dangerous to take his small rowing boat out to the lake.

All the time he was talking, the young couple were nervously looking behind them. Simon, the young man pleaded with the batman to take them and offered him purse of silver coins. He told the boatman that he and the Elizabeth, the young woman, were in love and were determine to marry. Her father was chief ullini and he wanted to marry Elizabeth off to a neighboring chief, a man she did not love. The chief was at that moment pursuing them. They must cross the lake to be safe.

The boatman knew of chief ullini fiery temper and how he would kill the young man if he caught him he could also see how very much in love the young couples were .Just then the boatman son Eric came. He was strucking young man who helps his father , he was told the story of the young couple and sympathized with the plight. The young man spoke up. She would rather, she said, face the turbulent water than meet the wrath of the angry father. Tears weld up n her eyes, never, she protested, would she marry a man she didn't love.

The boatman was touched by her a appeal and told her son he had decided to row the couple across not for money, but because he admired their talent and love Eric looked anxiously at his father. A storm was certainly coming , he warned .it will be far too risky.

However, his father was already herding his passenger into his boat. when they were both seated he untied the rope and made to get in himself. Suddenly , Eric pulled his father away and leapt into the boat took up the 0ars and began to row away.

His father ,when he had recovered his breath ,shouted for his son to come back .His wife, on hearing the shout went down to the lakes edge .seeing her son rowing away over the stormy water, she screamed for him to return .The threatening wind whipped her words away.

Towards the lake a group of armed men came. It was the chief with his warriors. He was angry, but when he saw his daughter on the lake being tossed by angry waves he was terribly afraid .He bellowed that he forgive them and that they should return.

It was in vain as he shouted the waves capsized the little craft and its three young occupants were drowned as the old people watched.

Comprehension questions.(10mks)

1. What was the boatman doing when the young couple went to him? (1mk)

2. . Why did the boatman initially refuse to take the young man and woman across the lake. (2mks)

3 Why was the couple in a hurry to cross the lake ?(2mks)

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4. Explain why the boatman decided to row the couple across the lake in spite of the bad weather. (2mks)

5. Why did Chief Ullin pursue the young couple? (2mks)

6. Never she protested, would she marry a man she did not love. (Write the words that were actually spoken by Elizabeth) (1mk)

Rewrite the following sentences to express future.

i. The student (open) school tomorrow.(present simple)

ii. Judy was not at the concert.(use will+be)

iii. I(go) visit my uncle this afternoon.

iv. The teacher (talk) to you about subject choices later.(will+be)

v. They (stop) by your house later.(use be + ing)

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Order the adjectives in the following sentences.

I. She wore a _____ dress.(evening, red, silk).

II. Tirop wanted his _____ boots. (French, ski)

III. The house I bought has _____ furniture.(old, brown)

IV. She got a _____ costume. (nylon, black, swimming)

V. He wore a _____ tie on his wedding day.(woolen , blue).

Oral literature. (10mks)

1. Explain any **five** types of songs.

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END OF TERM 1 EXAMS

GEOGRAPHY

FORM TWO

TIME: 1 ½ HOURS

NAME……ADM NO:……

SIGN…… INDEX NO:……

Answer all the questions

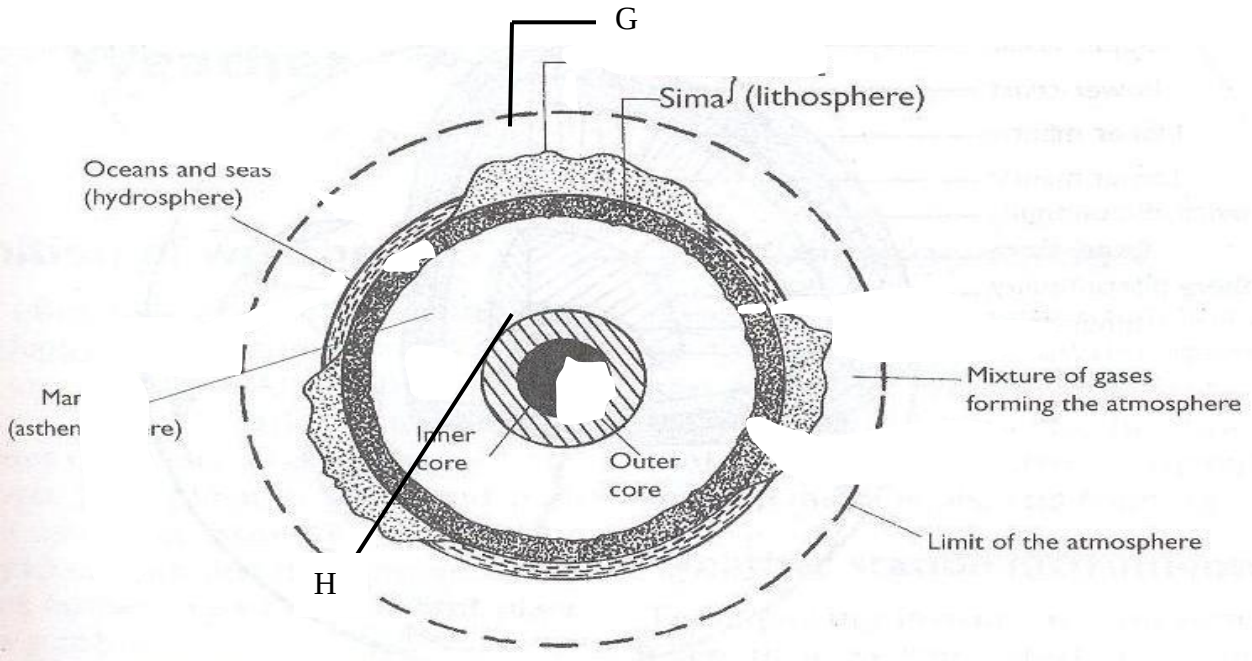
1. (a) What is the relationship between Geography and Chemistry? (2mak)

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(b) The diagram below shows the internal structure of the earth.



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(i) Name the parts marked G and H. (2 marks)

G -
H -

(ii) Name the dominant mineral in the mantle. (1 mark)

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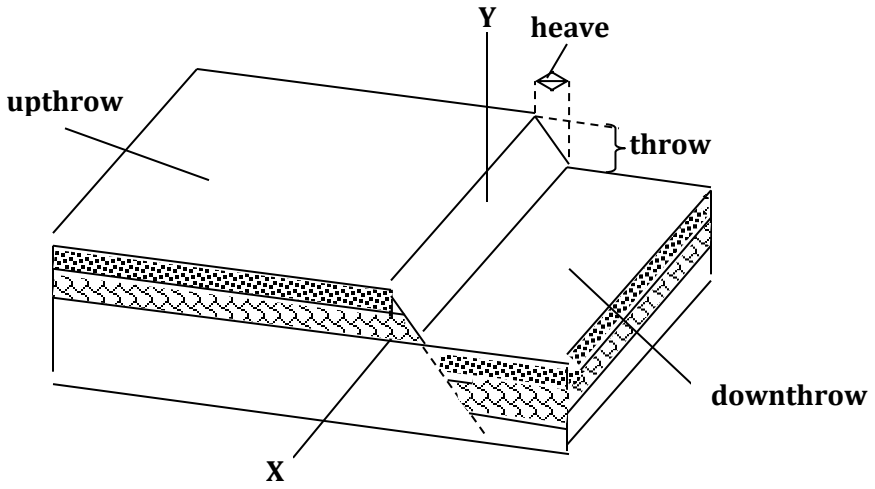
2. Differentiate between absolute and relative humidity. (2 marks)

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3. The diagram below shows some features formed by faulting. (2 marks)



(a) Name the parts marked X and Y.

X -
Y -

(b) State *three* effects of faulting on drainage of an area. (3 marks)

FOR MARKING SCHEMES CALL/WHATSAPP 0705525657

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4. (a) Identify *two* scales used to measure the intensity of an earthquake (2 mark)

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(b) Give *three* major earthquake zones of the world. (3 mark)

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(c) Explain *three* economic significance of rocks in Kenya. (3 mark)

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(d) Students carried out a field study on rocks around their school.

(i) State *two* importance of stating the objectives for the study. (2 marks)

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(ii) Give *three* reasons why they prepared a route map of the study (3 marks)

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FOR MARKING SCHEMES CALL/WHATSAPP 0705525657

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(iii) Give *three* activities that the students where involved in during the field study. (3 marks)

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5 (a) (i) What is an orogeny? (2 marks)

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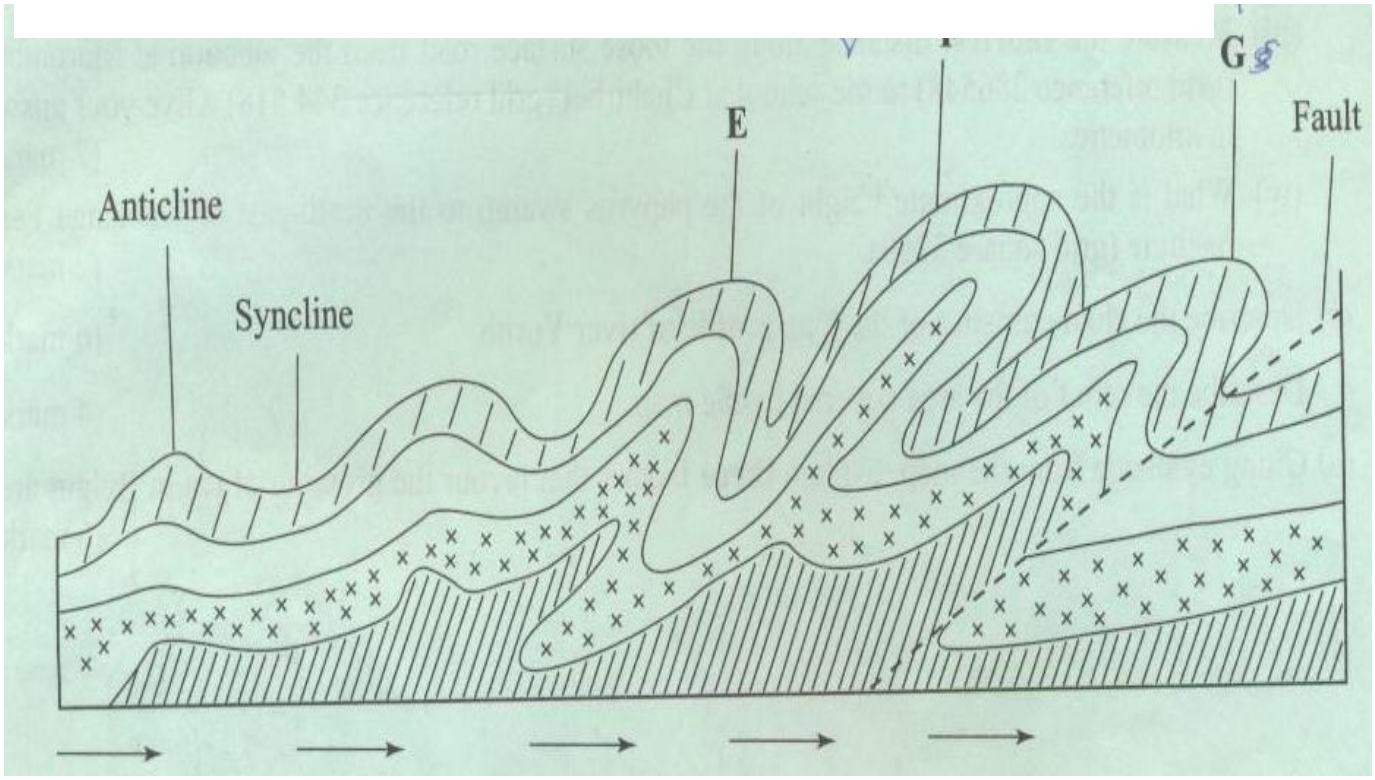
(ii) Give *two* factors that influence the folding process of rocks. (2 marks)

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(b) The diagram below shows some types of folds. Use it to answer the question



FOR MARKING SCHEMES CALL/WHATSAPP 0705525657

(i) Name the types of folds marked E and (2marks)

E
F

(ii) Describe how an overthrust fold is formed. (4 marks)

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(c) Name the countries in which the following fold mountains are found.

(i) Atlas (1 mark)

(ii) Alps (1 mark)

(iii) Himalayas (1 mark).

(iv) Andes (1 mark)

(d) (i) Apart from fold mountains, name *three* other features resulting from folding. (3maks)

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(ii) Explain *four* ways in which fold mountains influence climate .(8maks)

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6. (a) Define the term planet (2mks)

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7. Differentiate between relative humidity and absolute humidity. (2mks)

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8. With the aid of a well labeled diagram, describe how aerographic rain is formed. (7mks)

FOR MARKING SCHEMES CALL/WHATSAPP 0705525657

END OF TERM 1 EXAMS

HISTORY AND GOVERNMENT

FORM TWO

TIME: 2 HOURS

NAME……ADM NO:……

SIGN…… INDEX NO:……

Answer all the questions in the spaces provided.

SECTION A: (40 MARKS)

1. Name two sources of history of Kenyan communities during pre-colonial period. (2 mks)

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2. Identify three similarities between early agriculture in Mesopotamia and Egypt. (3 mks)

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3. State two reasons why the Portuguese were able to conquer the coastal towns by 1500AD.(2 mks)

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4. State two ways in which mission stations in Kenya promoted to the spread of Christianity.(2 mks)

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5. Give two reasons that can make a registered person to loose citizenship in Kenya. (2 mks)

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6. Identify three ways in which education system in Kenya promotes National unity (3 mks)

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7. State three ways in which poor transport systems have contributed to food shortage in Africa.
(3 mks)

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8. Give four effects of telecommunication in modern society. (4 mks)

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9. Name any two early sources of energy. (2 mks)

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10. Give any three limitations of using fire and smoke signals in communication. (3 mks)

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11. State three roles of tuaregs in Trans-Saharan trade. (3 mks)

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12. Identify the two examples of regional trade. (2 mks)

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13. Identify any two factors that may limit national unity in Kenya. (2 mks)

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14. Give two reasons why the Portuguese build Fort Jesus. (2 mks)

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15. State two factors that made the Akamba to participate in long distance trade during 19th century. (2 mks)

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16. Identify the three species of homo sapiens. (3 mks)

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SECTION B: (30 MARKS)

Answer any two questions.

17. (a) Identify five ways in which slaves were acquired during Trans-Atlantic trade. (5 mks)

    (b) What were the results of Trans-Atlantic trade in West Africa? (10 mks)

18. (a) What factors made early man to domesticate crops and animals. (3 mks)

    (b) Explain the causes of food shortage in third world countries. (12 mks)

19. (a) Why did the industrial revolution take place in Britain ahead of other European countries? (5 mks)

    (b) Explain five ways in which development of iron technology affected African communities. (10 mks)

BLANK ANSWER SHEETS PROVIDED

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END OF TERM 1 EXAMS

KISWAHILI

FORM TWO

TIME: 1 ½ HOURS

NAME……ADM NO:……

SIGN…… INDEX NO:……

MAAGIZO

Jibu maswali yote.

1. UFAHAMU

Soma makala yafuatayo kisha ujibu maswali.

Changamoto kubwa inayowakabili watu wengi katika mataifa yanayoendelea ni suala la chakula. Suala hili linaweza kuangaliwa katika sawia mbili tofauti. Kuna tatizo linalofungamana na uhaba wa chakula chenyewe. Uhaba huu unaweza kutokana na utegemezi mkubwa kwa zaraa kama nyenzo kuu ya uzalishaji wa chakula.

Zaraa katika mataifa mengi hususan yanayoendelea, hutegemea mvua. Kupatikana kwa mvua huathiriwa na mabadiliko ya tabianchi ulimwnguni. Matendo na amali za watu kama ukataji wa miti na uchafuzi wa mazingira huwa na athari hasi kwenye tabianchi hiyo. Mabadiliko ya tabianchi huweza kuvyaza ukama kutokana na **ngambi ya mvua**.

Kibinimethali kutokea wakati mafuriko yanapotokea na labda kuyasomba mazao mashambani na kusababisha baa la njaa. Hali hizi mbili husababisha matatizo makubwa ya chakula na kuathiri pakubwa suala zima la usalama wa chakula. Ili kuzuia uwezokano wa kuwepo kwa shida hii, pana haja ya kuwepo kwa mikakati na sera za kuhakikisha kuna usalama wa chakula. Kwa mfano, pana haja ya kukuza kilimo cha umwagiliaji ili kuepuka **adha** inayosababishwa na ukosefu wa mvua. Kwa upande mwingine, sharti zichukuliwe hatua mufidi za kuzuia na kupambana na athari za gharika.

Changamoto nyingine inahusiana na usalama wa chakula chenyewe. Chakula kilichosibikwa na vijasumu au kwa njia nyingine ile huweza kumdhuru anayehusika. Msibiko wa chakula unatokana na vyanzo tofauti. Mathalan uandalizi wa chakula kilichochafuliwa na choo, kutozingatia mbeko za usafi, uandaaji wa chakula na kukiweka katika hali ya uvuguvugu kabla ya kukipakua – hali inayochochea ukuaji wa viini na ulaji wa chakula kisichoandaliwa vyema.

Ili kuepuka uwezekano wa kuathirika, pana haja ya kuzingatia usafi wa chakula na uandalizi unaofaa. Fauka ya hayo, vyombo cya uandalizi view safi, kanuni za usafi zifuatwe, upikaji na uandaaji uwe kamilifu. Hali hii isipozingatiwa, siha za raia wenyewe zitaathirika pakubwa.

Maswali.

1. Taja aina mbili za kuangalia suala la chakula katika mataifa yanayoendelea. (alama 2)

2. Taja hatua mbili zinazoweza kuchukuliwa kupambana na tatizo la chakula. (alama 2)

3. Eleza jinsi nne tofauti namna chakula kinavyoweza kuwa si salama? (alama 4)

4. Kwa nini ni rahisi kukipakua chakula baada ya kukiandaa tu? (alama 1)

5. Ni mapendekezo gani anayoyatoa mwandishi kuhakikisha kuwa chakula kinafaa? (alama 4)

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MATUMIZI YA LUGHA

1. Kwa kutoa mifano eleza tofauti kati ya**:** (alama 2)

i. Silabi funge

ii. Silabi wazi

2. Onyesha sauti zenye sifa zifuatazo**:** (alama 2)

i. Kipasuo cha ufizi

ii. Kikwamizo cha kaakaa laini

3. Tambua aina ya nomino katika sentensi zifuatazo**.** (alama 2)

i. Mchanga hufanya miti kumea.

4. Bainisha mofimu katika kitenzi**.** (alama 2)
Kilipikika

5. Tambua vivumishi katika sentensi ifuatayo na ueleze ni vya aina gani**.** (alama 2)

i. Mtoto wake ameng'oka jino.

ii. Msemo wenye tafsida hupendwa.

6. Andika kinyume cha: (alama 1)
Tulinunua nguo aliizozianika jana.

7. Nomino 'uki' iko kwenye ngeli gani. (alama 1)

8. Ainisha vitenzi kwenye fungo zifuatazo: (alama 3)

i. Yatakuwa yangali yanakoma.

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ii. Maria na Atieno ni wanafunzi watiifu.

9. Onyesha vielezi katika sentensi zifuatazo. (alama 2)
   i. Rais ametutembelea mara sita mwaka huu.

   ii. Nendeni haraka shuleni.
10. Eleza maana inayojitokeza kwenye sentensi ifuatayo. (alama 1)
   i. Waiteni watu wale.

11. Tumia kiwakilishi kisisitizi kutungia sentensi ya wingi wakati uliopita. (alama 2)

ISIMU JAMII

Soma makala yafuatayo kisha ujibu maswali.

Haya ng'ara … Ng'ara leo! Nguo motomoto. Ng'ara leo kwa bei rahisi. Hamsini hamsini shati. Kuona ni bure. Bure kwa bure. Shika mwenyewe ujionee. Bei nafuu. Bei ya starehe. Haya, haya. Usikose mwanangu! Hamsa! Hamsa! Fifty!Hamsa! Fifty! Hamsa na nyingine.

Maswali.

a. Bainisha sajili ya mazungumzo haya. (alama 1)

b. Eleza sifa nane za sajili hii kwa kurejelea kifungu hiki. (alama 4)

FASIHI SIMULIZI.

a. Fafanua maigizo. (alama 2)

b. Ainisha kipera cha maigizo. (alama 4)

c. Eleza sifa za maigizo. (alama 4)

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END OF TERM 1 EXAMS

MATHEMATICS

FORM TWO

TIME: 1 ½ HOURS

NAME……ADM NO:……

SIGN…… INDEX NO:……

Attempt all the questions in the spaces provided.

1. Solve for x in the equation: (3 mks)

$32^{(x-3)} \times 8^{(x+4)} = 64 \div 2^{x}$

2. Simplify without using a calculator or a mathematical table

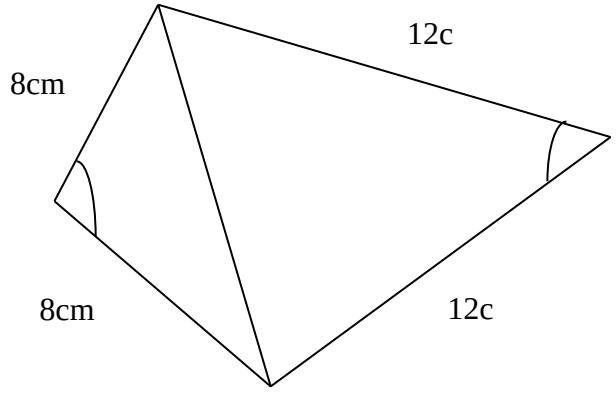
$$\frac{\sin 90^{o} \cos 45^{o}}{\sin 45^{o}}$$ (2 mks)

FOR MARKING SCHEMES CALL/WHATSAPP 0705525657

3. A line which joins the point A(3, k) and B(-2, 5) is parallel to another line whose equation is $5y + 2x = 10$. Find the value of K. (3 mks)

4. A group of 5 people can do a piece of work in 6 hours. Calculate the time a group of 8 people, working at half the rate of the first group could take to complete the same work. (3 mks)

5. Calculate the area of the shape below. (3 mks)



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6. The length of a minute hand of a clock is 3.5cm. Find the angle it turns through if it sweeps an area of 48cm. (Take $\pi = 22/7$) (2 mks)

7. Two years ago, Jane was twice as old as John. If the sum of their ages 5 years from now will be 44 years, calculate their present ages. (3 mks)

8. Express $1.9\dot{3} + 0.2\dot{5}$ as a single fraction. (3 mks)

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9. The surface area of two similar bottles are $12cm^2$ and $108cm^2$ respectively. If the larger one has a volume of $810cm^3$, find the volume of the smaller one. (3 mks)

10. Simplify the following expression

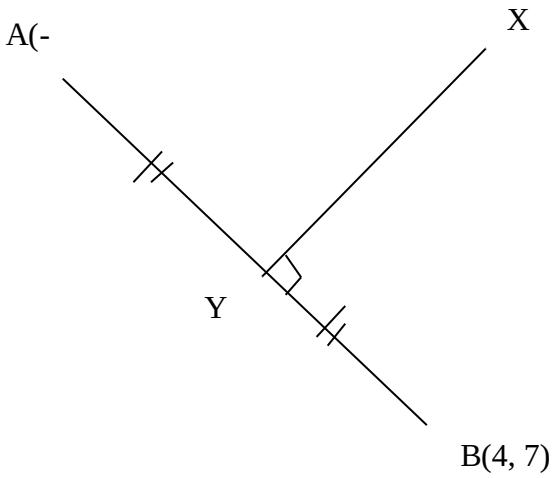
$$\frac{7x - 7xy}{7 - 7y}$$ (2 mks)

11. Use mathematical tables to evaluate: (4 mks)

$$\sqrt{\frac{1.794 \times 0.038}{12.43}}$$

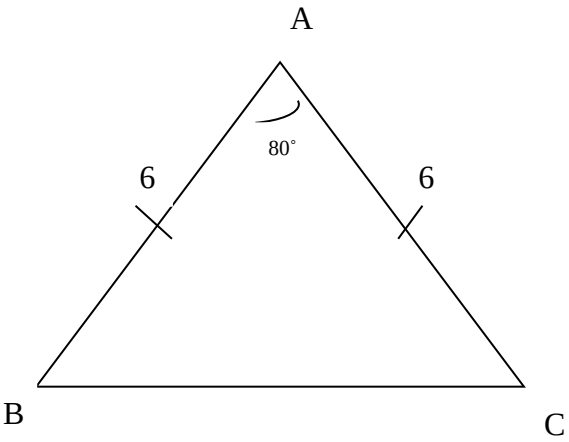
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12. In the diagram below, determine the equation of the line XY in the form y = mx + c (3 mks)



13. An aircraft flying onto an airport calls out the control tower and says it is at height of 500m above the tower. If its horizontal distance from the tower is 8km, calculate the angle of elevation from the tops of the tower. (3 mks)

14. The figure below shows an isosceles triangle in which AB = AC = 6cm. Angle BAC = 80˚. Calculate the length of BC.



(3 mks)

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15. Solve the equation. (1 mk)
Sin y2 = Cos 26˚

SECTION II(30 MARKS)

Choose any three questions only.

16. The vertices of a triangle PQR are P(0, 0) Q(6,0) and R(2,4)
(a) Draw triangle PQR on the grid provided. (1 mk)

(b) Triangle P'Q'R' is the image of a triangle PQR under an enlargement scale factor ½ and centre (2,2) write down the coordinates of P'Q'R' and plot on the same grid. (3 mks)

(c) Draw triangle P"Q"R" the image of triangle P'Q'R' under a positive quarter turn about point (1,1) (3 mks)
(d) Draw triangle $P^{III}Q^{III}R^{III}$ the image of P"Q"R" under a reflection in the line y = 1.

17. In a school, there are 1250 students, each student contributed sh 380 towards a welfare programme. The money contributed was used to purchase 75 bales of maize flour which was shared equally among 50 families. One bale of maize flour contains 12 packets and costs sh 1050. The remaining amount was shared equally among 125 students as bursary. Calculate:
(a) The total amount collected. (2 mks)

(b) The total number of maize flour bought (2 mks)

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(c) The number of packets each family got. (2 mks)

(d) The amount of money that remained. (2 mks)

(e) The amount of bursary that each student got. (2 mks)

18. Find the area in hectares of a maize field whose measurements are shown in the field book below. The baseline PQ is 300m long. (10 mks)

	Q	
	250	70B
C100	180	
	80	150A
	P	

19. The marked price of a sewing machine is sh 30,000. A discount of 10% is given on cash payment. The sewing machine can also be bought on hire purchase. The hire purchase terms requires a deposit of sh 10500 followed by 12 equal monthly installments of sh 2150 each.

(a) Calculate:

(i) The cash price of the sewing machine. (2 mks)

(ii) The hire purchase value of the sewing machine. (3 mks)

(b) Korir bought the sewing machine by cash while Akinyi bought it on hire purchase. How much did Akinyi pay for the machine than Korir? (3 mks)

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(c) Calculate the percentage increase in hire purchase price over the marked price.(2 mks)

20. (a) Complete the following tables for the equations:
(i) $y = 5x - 7$
(ii) $y = 9 - 3x$

Table 1

X	-2	-1	0	1
y		-12		7
(x,y)		(-1, -12)	(0, -7)	

Table 2

X	-2	-1	0	1
y	13			7
(x,y)	(-2, 13)			(1, 7)

(b) On the same grid, draw the graphs of: (4 mks)
(i) $y = 5x - 7$
(ii) $y = 9 - 3x$

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(c) Use your graphs to solve the following simultaneous equations. (2 mks)

$5x - y = 7$

$3x + y = 9$

WE WISH YOU A HAPPY BIRTHDAY

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END OF TERM 1 EXAMS

PHYSICS

FORM 2

TIME: 1 &1/2 HOURS

NAME……ADM NO:……

SIGN…… INDEX NO:……

INSTRUCTIONS.

1. Answer all questions in the spaces provided below.

1. Define the following terms giving appropriate examples. (4mks)
   a) Magnetic materials-

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b) Non-magnetic materials-

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2. 0.01cm3 of oil spreads out on water to form a patch of diameter 28cm. estimate the diameter of an oil molecule ,and express your answer correct to 3s.f.g. (3mks)

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FOR MARKING SCHEMES CALL/WHATSAPP 0705525657

3. A uniform meter rule with a mass of 200g suspended at zero mark is pivoted at the 22.0cm mark. Calculate the mass of the rule. (4mks)

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4. State **three** uses of magnets. (3mks)

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5. Explain the following. (4mks)

a) Principal of moments of a force.

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b) Moment of a force is a vector quantity.

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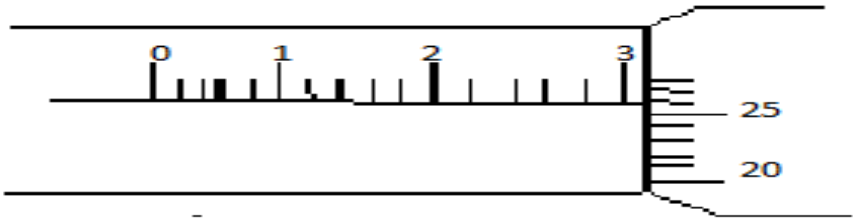
6. The micrometer screw gauge below has a zero error of -0.15.Determine the final Redading of the instrument. (3mks)

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FOR MARKING SCHEMES CALL/WHATSAPP 0705525657



7. State **two** factors that affect the centre of gravity. Explain each briefly. (4mks)

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8. State **two** practical applications of the C.O.G. (2mks)

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9.A solid weighs 36N on the Moon .The force due to gravity on the moon is 1.7N/Kg. Determine the mass of the solid. (3mks)

10. Use simple sketches of a cone to illustrate the three states of Equilibrium. (3mks)

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FOR MARKING SCHEMES CALL/WHATSAPP 0705525657

11.a) Give a reason why water is not suitable as a barometric liquid. (2mks)

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b) Explain the application of 11(a) above. (1mk)

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12.Determine the density in SI units of a solid whose mass is 40g measuring 30cm long, 4cm wide and 3cm thick. (4mks)

14.a).Sketch **two** diagrams of a wire loop dipped in soap solution to illustrate the surface tension experiment. (2mks)

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b) Explain the observation in 14 (a) above. (2mks)

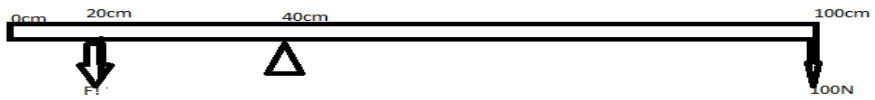
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FOR MARKING SCHEMES CALL/WHATSAPP 0705525657

15.A uniform wooden bar of length 1m and mass 5kg is pivoted at 40cm mark as shown below. Calculate the value of F1. (4mks)



16. Using domain theory of magnetism, explain how a magnet may lose its magnetism on heating and hammering. (4mks)

17. Distinguish between soft and hard magnetic materials. (2mks)

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18. A boy jumping from a high table tends to spread his legs. Explain (1mk)

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19. State **two** differences between mass and weight. (2mks)

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FOR MARKING SCHEMES CALL/WHATSAPP 0705525657

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20. State **two** practical applications of friction. (2mks)

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21. What is wrong with the statement." the mass of an astronaut in the moon is $1/6^{th}$ his mass on earth". (1mk)

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22. State the **two** conditions for a body to be in equilibrium. (2mks)

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23. Explain what is meant by magnetic shielding and state one application of magnetic shielding. (2mks)

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24.a)Define the following terms. (2mks)

i) Principal focus-

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ii) Radius of curvature-

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25. An object is placed 30cm from a concave mirror of focal length 20cm.
Calculate. i) The image position (2mks)

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ii) The magnification (2mks)

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26. State **one** advantage and one disadvantage of using a convex mirror. (2mks)

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FOR MARKING SCHEMES CALL/WHATSAPP 0705525657

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