BRILLIANT STUDENTS FORM 2 END TERM 1 SERIES 1 EXAMS *(ALL SUBJECTS TESTED)*



BRILLIANT STUDENTS FORM 2 END TERM 1 SERIES 1 EXAMS

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0706 851 439



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BRILLIANT STUDENTS

FORM 2 END TERM 1 SERIES 1 EXAMS

END OF TERM ONE EXAMINATION

FORM TWO

AGRICULTURE

TIME 2 HOURS

This paper has three section A, B and C.

Answer all questions in the section A, B and any two in section C.

All answers should be written in the spaces provided.

OFFICIAL USE ONLY

SECTION	QUESTION	MAX SCORE	CANDIDATE SCORE
A	1 – 16	40	
B	17 – 19	20	
C	20 – 22	40	
TOTAL		**100**	

SECTION A **40 MKS**

Answer all question in this section

1. State three ways through which agriculture contribute to industrial development. (3mks)

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2. Name three factors that influence shifting cultivation. (3mks)

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3. State two categories of parasites that affect livestock production. (2mks)

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4. List two maintenance practices carried out the following farm tools. (6mks)

a) Wheel barrow

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b) Milking pail

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c) Wool shears

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5. State two reasons why a farmer should prepare land before planting. (2mks)

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6. Name three methods a farmer can use when doing tertiary cultivation. (3mks)

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7. State two disadvantages of plastic pipes in water conveyance. (2mks)

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8. State two importance of treating farm water before using it. (2mks)

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9. List two methods of preparing compost manure. (2mks)

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10. State two characteristics of a dairy cattle breed. (2mks)

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11. State two uses of farm records. (2mks)

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12. What does the following initials represent in fertilizer description N.P.K. (3mks)

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13. Differentiate between the following terms.

a) Straight fertilizer and compound fertilizer. (2mks)

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14. A farmer was advised to apply 180 kg CAN/ha when top-dressing the maize crops. If the C.A.N. available in shops contain 21% N. Calculate the amount of nitrogen applied per hectare. (2mks)

15. State two advantage of using seeds as planting materials. (2mks)

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16. Name two methods a farmer can use to break seed dormancy. (2mks)

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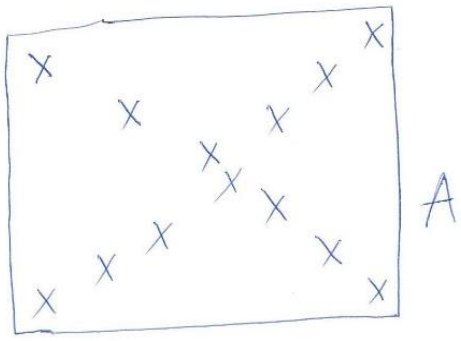
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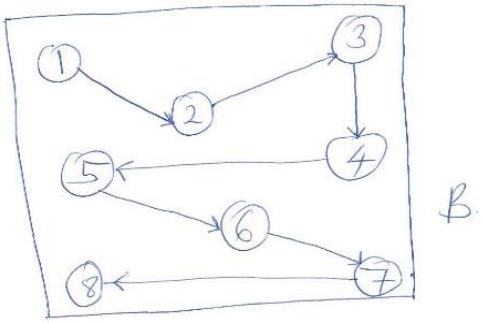
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SECTION B **20 MKS**

Answer all questions in this section.

17a) Study the diagrams below and answer the questions that follow





a) Identify the soil sampling methods shown above. (2mks)

A ……

B …….

b) State three types of information written on a soil sample before it's taken to the laboratory for testing. (3mks)

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c) State four areas where soil samples should not be collected for sampling. (4mks)

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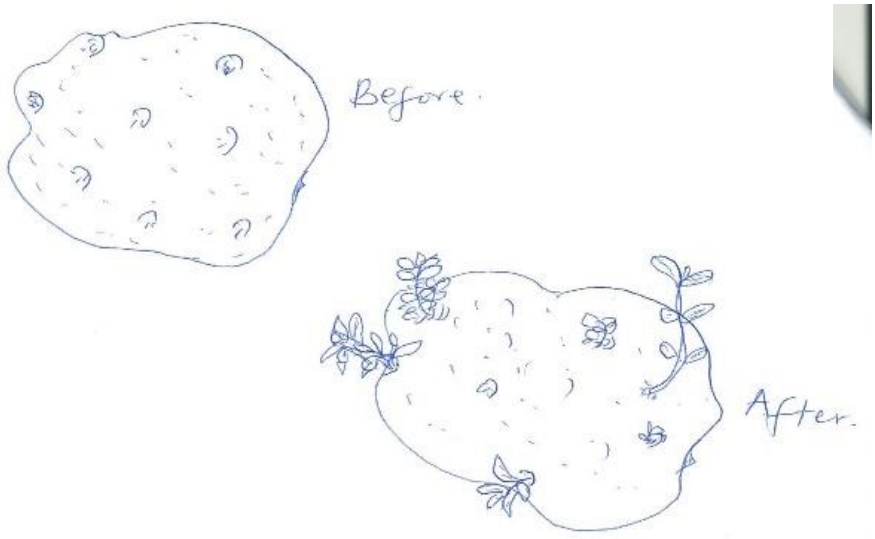
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18. Study the diagram below and answer the questions



a) Name the practice above. (1mk)

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b) State two advantages of the above practice on iris potatoes. (2mks)

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c) Name two methods used when planting crops. (2mks)

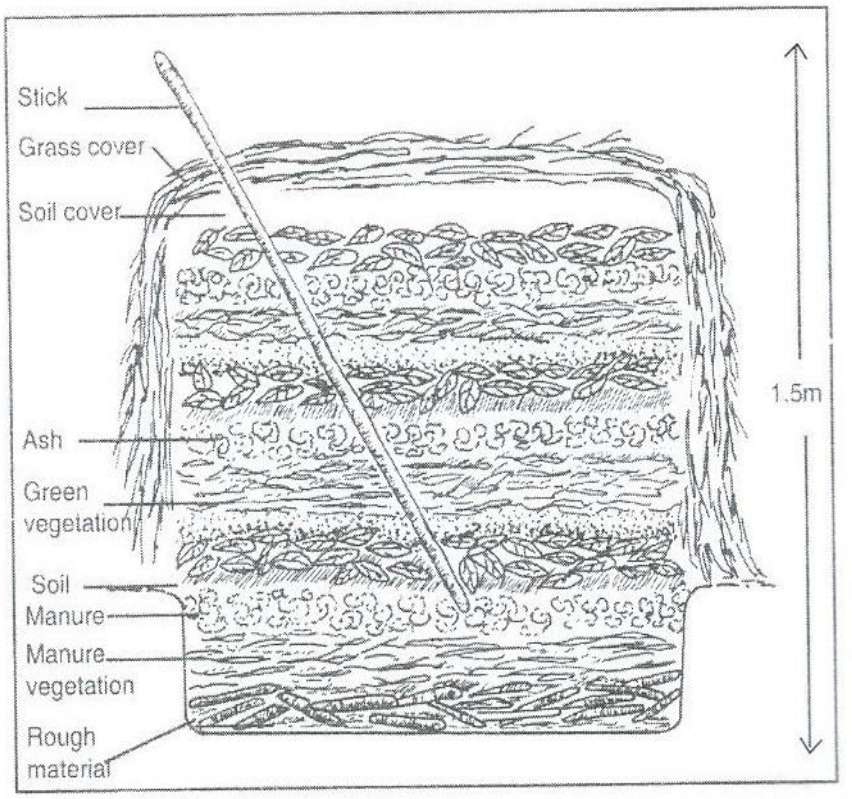
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the diagram below and answer the questions that follow.



a) Identify manure preparation method above. (4mks)

i) Wood ash

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ii) Rotten manure

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iii) Stick

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iv) Top soil

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c) State one reason why manure heap should be turned at least every 3 to 4 weeks. (1mk)

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SECTION C: **40 MKS**

Answer any two questions in this section

20a) Explain five factors that determine the quality of farm yard manure. (10mks)

b) Discuss five importance of keeping livestock in Kenya today. (10mks)

21a) Explain five methods through which a soil loses its fertility. (10mks)

b) Describe five factors that affect the rooting of cuttings in vegetative propagation. (10mks)

22a) Explain five methods a farmer can use when applying fertilizer to crops. (10mks)

b) State and explain five reasons why farm tools should be maintained. (10mks)

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FORM 2 END TERM 1 SERIES 1 EXAMS

END OF TERM ONE EXAMINATION

FORM TWO

BIOLOGY

TIME: 2 HOURS

INSTRUCTIONS TO THE CANDIDATES

a) Answer all questions in the spaces provided in the question paper.
b) Answer all questions in section A and two questions in section B.
c) Question 21 is compulsory

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SECTION	MAXIMUM SCORE	CANDIDATES SCORE
A	70	
B	30	
TOTAL SCORE	100	

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SECTION A (60MARKS) ANSWER ALL QUESTION

1. State the importance of each of the following in living organisms

a) Nutrition (1mk)

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b) Excretion (1mk)

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2. State two functions of cell sap (2mks)

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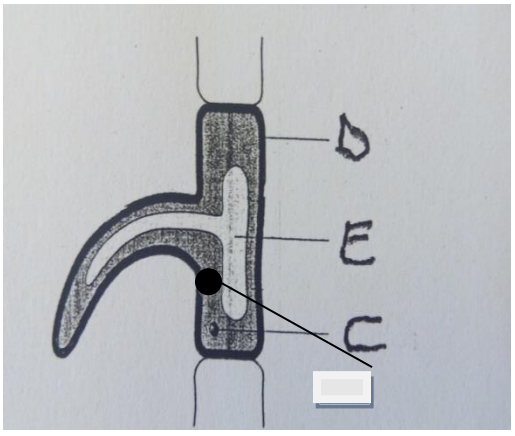
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3. Which organelle would be abundant in: (2mks)

a) Skeletal muscle cell ……..

b) Palisade cell ……..

4. The diagram below shows a specified plant cell



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i.Name the cell (1mk)

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ii.Name the parts labelled D and E (2mks)

D ……..

E ……..

5. State the functions of the following parts of alight microscope. (2mks)

a) Objective lens

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b) Diaphragm

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6. Using a microscope, a student counted 55 cells across a field of view whose diameter was 6000μm. Calculate the average length of cells. Show your working. (2mks)

7(a) Distinguish between diffusion and osmosis (2mks)

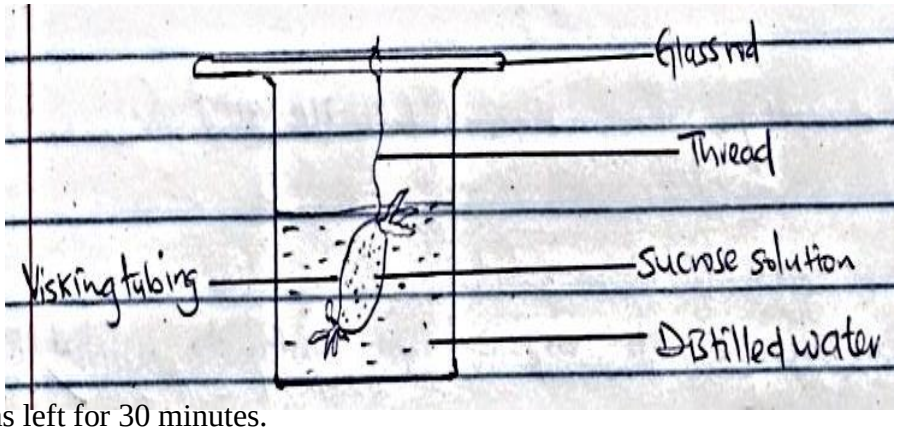
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b)An experiment was set as shown below



The set up was left for 30 minutes.

(i) State the expected results (1mk)

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(ii) Explain your answer in b(i) above (3mks)

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8.State four factors that increase the rate of diffusion (4mks)

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9.What is meant by the following terms?

(i) Crenated cell (1mk)

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(ii) Flaccid cell (1mk)

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10. Distinguish between heterotrophism and autotrophism (2mks)

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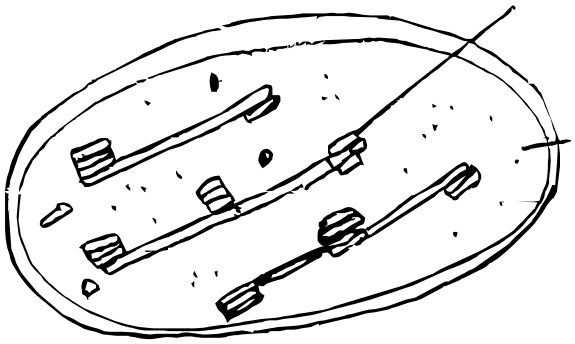
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11. Study the diagram below

T



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a) Name the process which takes place in the organelle (1mk)

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b) Name the pigment in the structure labelled T and state its function (2mks)

Pigment ……..

Function ……

c) Name three cells of a leaf where the above structure is found (3mks)

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12. State four external factors that affect the rate of photosynthesis (4mks)

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13. State three properties of monosaccharide (3mks)

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14. Discuss four adaptations of the carnivores to their mode of feeding (4mks)

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a) What is the importance of mastication during digestion? (1mk)

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b) State three roles of saliva during digestion (3mks)

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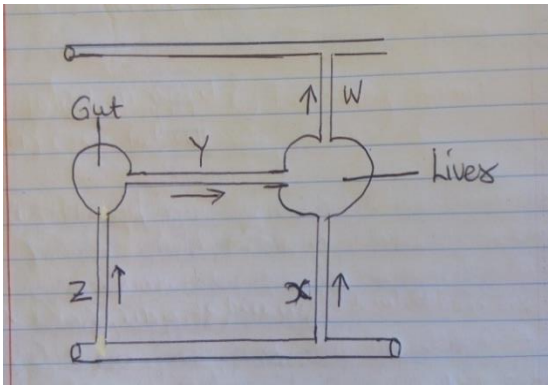
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16. The diagram below shows part of a mammalian circulatory system



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a. Name the blood vessels marked Y and Z (2mks)

Y ……

Z ……

b. A student took a meal rich in proteins and carbohydrates. It was found that the glucose level in blood vessel W was lower than blood vessel Y. Explain (1mk)

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17.

a) What is active transport? (1mk)

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b) Give four roles of active transport (4mks)

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18. During a Biology practical lesson, the teacher provided students with the following apparatus; a porter, a scalpel, specimen bottle, a pair of forceps, sweep net and chloroform.

a) Give four precaution that a biology teacher gave the students before the practical when collection of specimen began (4mks)

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b) What was the function of the following apparatus (4mks)

i.Pooter

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ii.Sweep net

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iii.Chloroform

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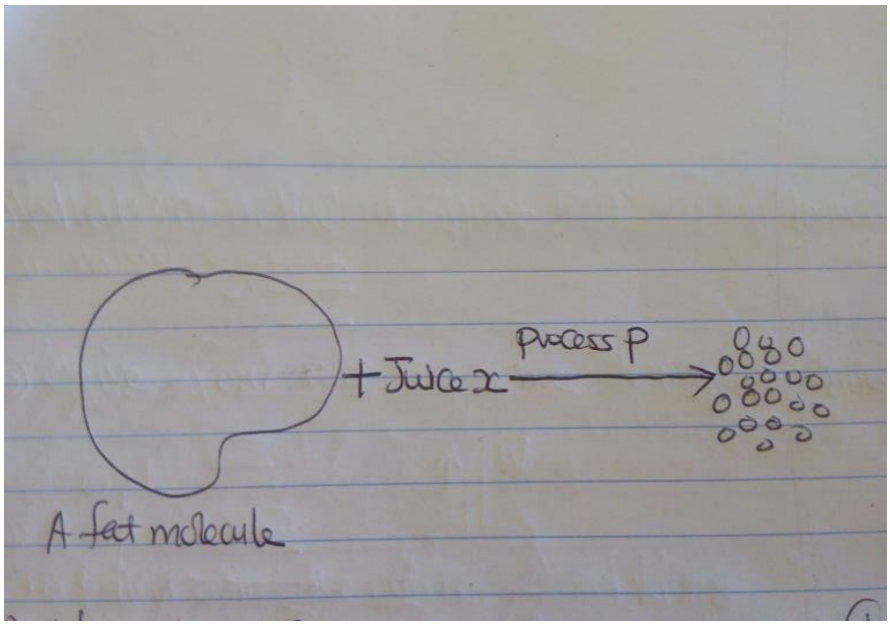
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iv.A pair of forceps

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19. The following is an illustration of a certain process that occurs in mammals.



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a) Name process P (1mk)

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b) Name the juice involved in process P (1mk)

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c) Give a reason why liver damage leads to impaired digestion of fats (1mk)

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d) What would be likely effect on digestion if the small intestine of a human being is reduced in an operation (1mk)

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20. Name two specialized tissue in mammals (2mks)

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SECTION B: **40 marks**

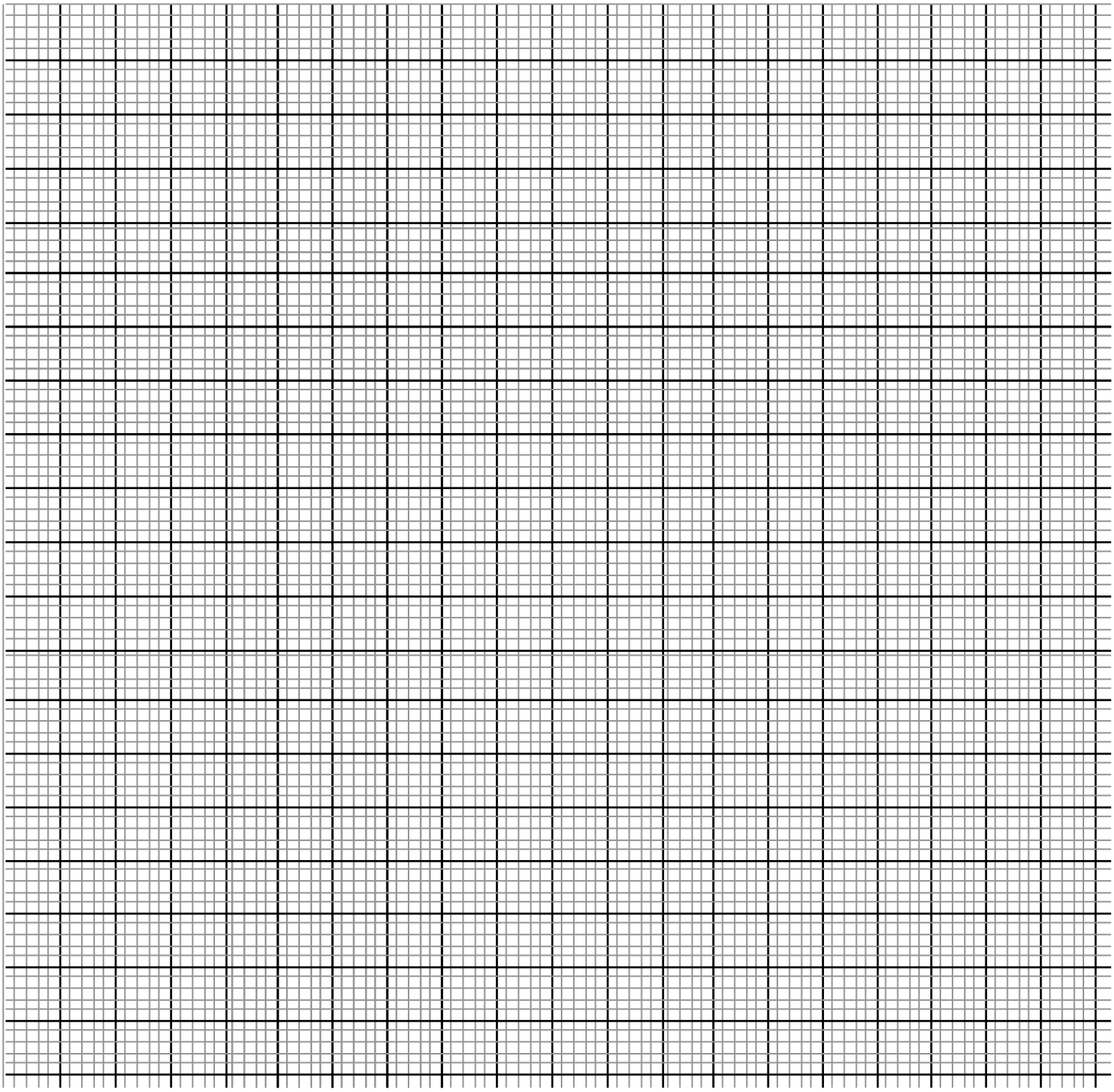
Question 21 is compulsory
Answer question 21 and either question 22 or 23

21.An experiment was carried out to investigate the effect of temperature on the rate of reaction catalyzed by an enzyme. The results are shown in the table below.

TEMPERATURE (^{O}C)	RATE OF REACTION IN MG OF PRODUCTS PER UNIT TIME
5	**0.2**
10	**0.5**
15	**0.8**
20	**1.1**
25	**1.5**
30	**2.1**
35	**3.0**
40	**3.7**
45	**3.4**
50	**2.8**
55	2.1
60	1.1

a. On the grid provided below draw a graph of rate of reaction against temperature. 6mks

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b. When was the rate of reaction 2.6 mg of product per unit time? 2mks

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c. Account for the shape of the graph between

(i) 5^oc and 40^oc 2mks

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(ii) 45^oc and 60^oc 3mks

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d. Other than temperature name two ways in which the rate of reaction between 5^oc and 40^oc could be increased. 2mks

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e.

(i) Name one digestive enzyme in the human body which works best in acidic condition. 1mk

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(ii) How is the acidic condition for the enzyme named in (e) (i) above attained? 2mks

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f. The acidic conditions (e) (ii) above are later neutralized.

i. Where does the neutralization take place? (1mk)

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ii. Name the substance responsible for neutralization. (1mk)

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22. Describe how water moves from the soil to the leaves of a tree (10mks)

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23.

i. Explain how the mammalian intestines are adapted to perform their function (5 mks)

ii. Describe how environmental factors increase the rate of transpiration in terrestrial plants (5 mks)

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BRILLIANT STUDENTS

FORM 2 END TERM 1 SERIES 1 EXAMS

FORM 2

BUSINESS STUDIES

TIE: 2½HRS

INSTRUCTIONS

1. Answer all the questions in the spaces provided

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SECTION A

1. State the term given to each of the following statements (4mks)

a) Movement of goods and services from producers to consumers ……..

b) Creation of goods and services ……

c) Using a good or service ……

d) Satisfaction derived from a good or service ……

2. State **four** categories in which the various types of business partners may be classified (4mks)

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3. Highlight **four** ways in which the government creates an enabling environment for the conduct of business in the country (4mks)

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4. Outline **four** roles of transport in the facilitation of trade (4mks)

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5. Outline any **four** importances of business studies to the learner (4mks)

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6. State four ways in which Kenya may benefit from its natural resources endowment (4mks)

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7. State the type of utility created by each of the following activities (4mks)

a) Delivering milk to a customer ……

b) Keeping money in the bank ……

c) Selling bread to a student ……

d) Making uniform for students ……

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8. Outline any **four** external factors that may affect business positively (4mks)

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9. Highlight **four** circumstances under which a credit note may be issued (4mks)

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10. Mutiga bought 20 crates of soda each at sh. 500. He was allowed a discount of 10%. The cash discount was quoted as follows; 10% 1 mouth, 5% 2 month otherwise net. If he paid within two months, calculate the amount of money he paid. (4mks)

11. From the following sentences, indicate the type of business activity (4mks)

a) Activity involved getting goods from their natural setting ……

b) Buying and selling of goods and services with a view of making profit ……

c) Building of structures (bridges) ……

d) Smelting iron ore to make iron ……

12. For each of the following production activities indicate whether its direct or indirect type of production. (4mks)

Activity	**Type of Production**
A wife washing her husband's cloths	
A man repairing his chair at home	
Mugambi operating a wholesale business	
Kiende selling sukuma wiki	

13. Outline any **four** reasons that make a firm file its documents (4mks)

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14. Outline any **four** reasons why one requires a business plan. (4mks)

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15. Highlight any **four** methods of government involvement in business (4mks)

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16. Name the office equipment that function the following uses (4mks)

a) Adding and subtracting figures ……

b) Cutting unwanted documents into tiny pieces for disposal ……

c) To make holes in papers for filing ……

d) Folding letters and sealing envelops ……

17. Mention the **four** essentials of transport (4mks)

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18. Outline **two** reasons why it's difficult to satisfy human wants fully (2mks)

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SECTION B

19. Outline any **five** differences between sole proprietorship and partnership forms of business units. (10mks)

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20. Explain any **five** importances of entrepreneurship in the economy. (10mks)

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21. Explain any **five** means of payment used in Home trade (10mks)

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BRILLIANT STUDENTS

FORM 2 END TERM 1 SERIES 1 EXAMS

END OF TERM ONE EXAMINATION

FORM TWO

CHEMISTRY

2 HOURS

Instructions to candidates:

1. Answer **all** questions in both section A and B.

2. All working must be clearly shown and, in the spaces, provided.

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Section	Maximum Score	Candidate's Score
A	40	
B	40	
Grand Score	**80**	

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1[a] what is an atom? [1mk]

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[b]Distinguish between atomic number and mass number [1mk]

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2. Name two sub-atomic particles [2mks]

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3. Element P has two isotopes P^{60}_{30} and P^{61}_{30} which occur in the ratio X:2. Given that its R.A.M is 60.4.
Calculate the value of X [3mks]

4. A patient went to the hospital and was diagnosed to have cold flu. The patient was prescribed to take drugs 1 x 3

[i]How and what hours in interval will the drugs be taken [2mks]

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[ii]Supposing the patient took the drugs at 7.00a.m in the morning. What other hours of the day will the patient take the drugs [2mks]

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5. Identify a suitable method that would be used to separate mixture of the following substances

[a]Iodine and potassium chloride [1mk]

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[b]Water and ethanol [1mk]

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[c]Table salt dissolved in water [1mk]

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6. Fill the table below

compound	Chemical formulae
[i]sodium chloride	
[ii]Iron{III}oxide	
[iii]	$Al\{OH\}_3$

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7.Chemistry is a science subject that involves practicals that are done in the laboratory. Safety rules are given in order for the student to take precaution while in the laboratory

{i} State three such rules to be observed [3mks]

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{ii} Most of the laboratory apparatus are made of glass. Give two reasons [2mks]

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8.Njoki a form 2 student, was given a colourless liquid suspected to be water.

[a]Describe one chemical test she could use to identify the liquid. [2mks]

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{b}Describe an experiment she could perform to ascertain its purity [2mks]

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9.Two ions X^{2+} and Y^{2-} forms ions with ionic configurations 2.8.8 each

[a]Which of the ions is of an element in

[i]period 3

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[ii]Group 2

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[b]Given that element Y has a mass number of 32, draw the structure of its ions [2mks]

10. The form two students were given solutions P, Q and R in three different beakers. They put in red and blue litmus papers and recorded the results as shown below

Solution	P	Q	R
Effect on blue litmus paper	Turns red	Remains blue	Remains blue
Effects on red litmus paper	Remains red	Turns red	Turns blue

Which of the solutions was most likely to be;

[i]Distilled water [1mk]

……

[ii]of an oxide of sodium. Explain your answer [2mks]

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[iii]An oxide of sulphur. Explain your answer [2mks]

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11.[a]Differentiate between prescription drugs and over the counter drugs [2mks]

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[b]Name two commonly abused drugs in Kenya [1mk]

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[c]State two physiological effects of drug abuse to the human body [2mks]

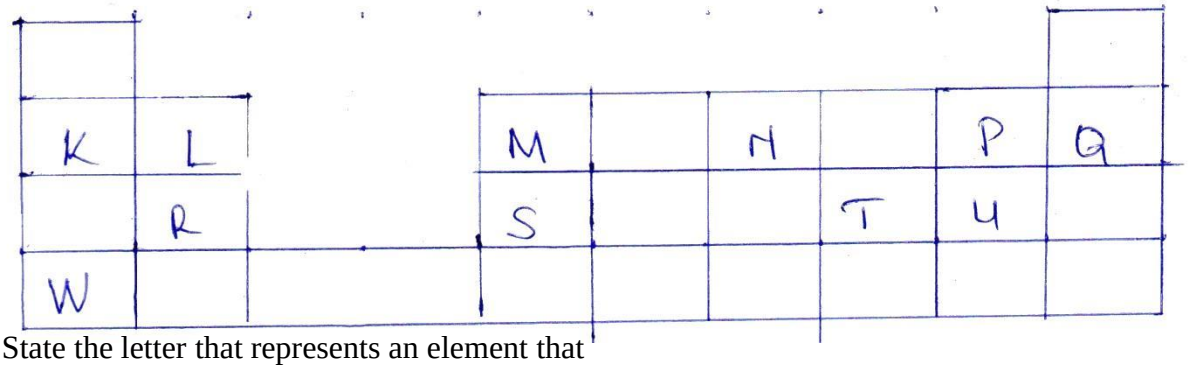
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SECTION B

12.Study the grid below showing a section of the periodic table. The letters are not the actual chemical symbols of the elements



[a]State the letter that represents an element that

[i]Belongs to period 3 [2mks]

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[ii]Belongs to group 2 [1mk]

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[iii]Forms ions with a charge of +3 [1mk]

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[iv]forms ions with a charge of +1 [1mk]

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[v]Forms ions with a charge of -1 [1mk]

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[b]What name is given the family to which elements K and W belong [2mks]

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[c]How does the following compare? Explain your answer

[i]Atomic radius P and U [2mks]

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[ii]Ionic and atomic radius of L [2mks]

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[iii]ionic and atomic radius of U [2mks]

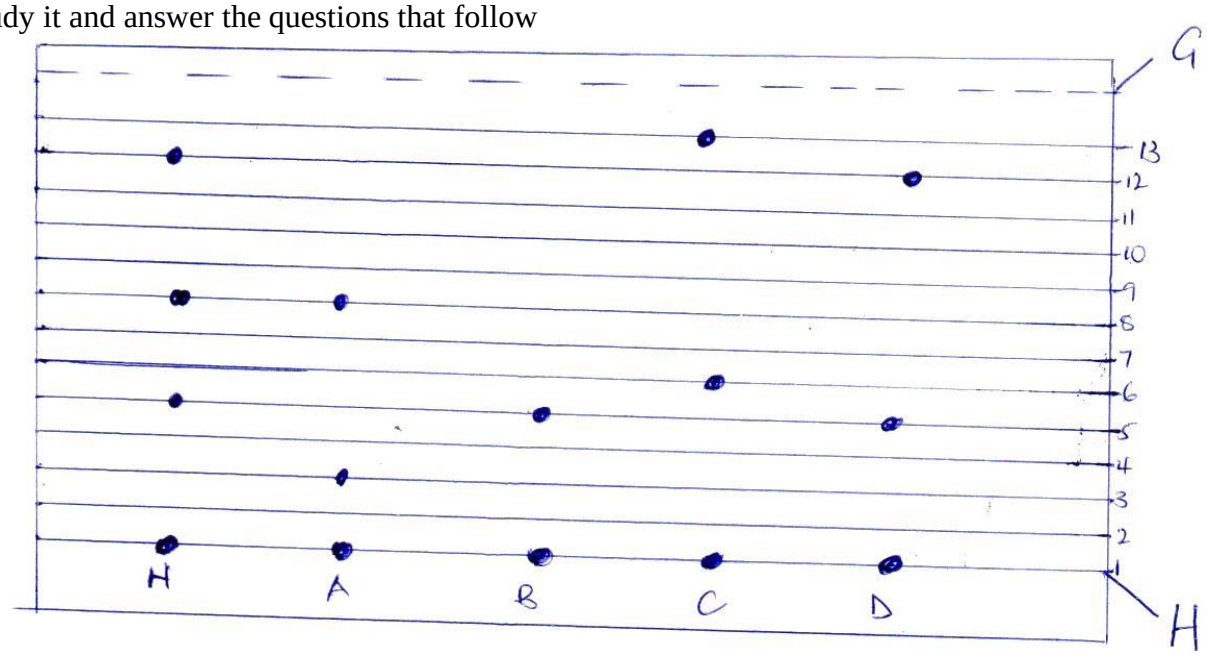
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13.Form two students carried out paper chromatogram for mixture of K and substances A,B,C and D. study it and answer the questions that follow



[a]Label [2mks]

[i]**G**……

[ii]**H**……

[b]What is the suitable solvent to use in this paper chromatogram [1mk]

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[c]Identify the substances present in mixture N [3mks]

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[d]Which of the pure substance was a compound of N [1mk]

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[e]State two factors that determine the speed by which a substance in a solution moves up the absorption paper [2mks]

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[f]State two application of paper chromatogram [2mks]

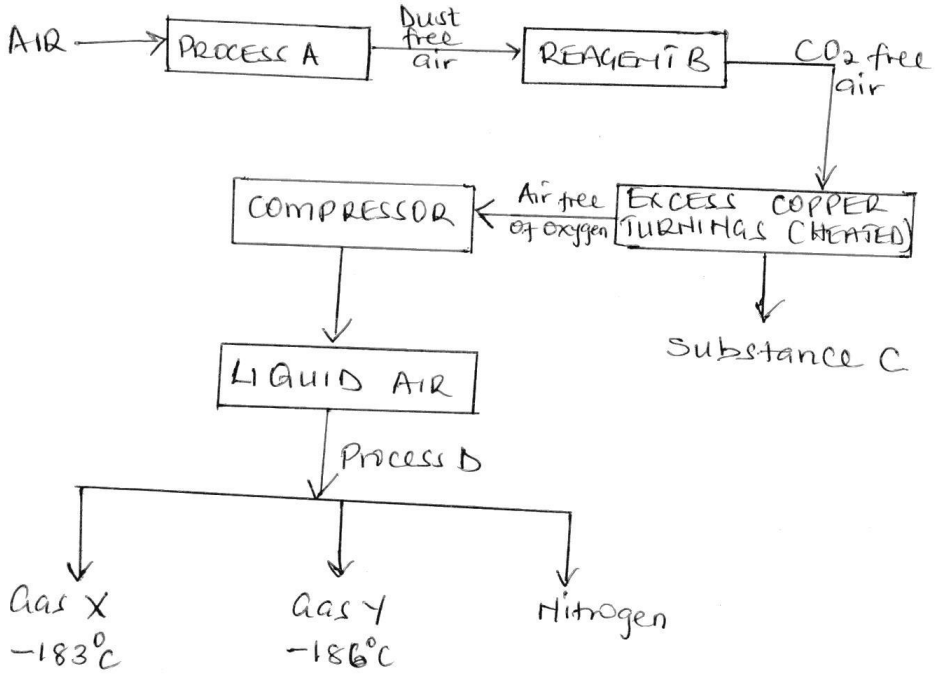
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14.The chart below shows how the main components of air are separated. Study it and answer the questions that follow



[a]Identify

[i]Gas x …… [1mk]

[ii]Gas y …….. [1mk]

[iii]The temperature at which Nitrogen is distilled out

…… [1mk]

[b]Name

i.Process A …….. [1mk]

ii.Reagent B …… [1mk]

iii.Substance C …… [1mk]

iv.Process D …… [1mk]

[c]What is the purpose of passing the air through compressor [1mk]

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[d]Write the chemical equation of the reaction taking place when copper turnings are heated [1mk]

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

ELEMENT	A	B	C	D	E	F	G
Atomic radius [nm]	0.156	0.136	0.125	0.110	0.110	0.104	0.099
Ionic radius[nm]	0.095	0.065	0.050			0.184	0.181
1^{st} ionization energy KJ/mol	492	743	790	791	1060	1063	1254
Melting point ^0C	97.8	650	660	1410	442	119	-101
Atomic number	11	12	13	14	15	16	17

[i]Explain why;

[a]A has a larger atomic radius than ionic radius [1mk]

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[b]G has a smaller atomic radius than its ionic radius [1mk]

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[c]Explain on the trend of melting point from A to C [2mks]

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[d]Explain why D has the highest melting point [1mk]

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[e]Why is G having smallest atomic size [1mk]

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

NAME: ……..……

SCHOOL: ……

ADM NO: …… SIGN: …… DATE: ……

BRILLIANT STUDENTS

FORM 2 END TERM 1 SERIES 1 EXAMS

COMPUTER STUDIES

FORM TWO

TIME: $2^1/_2$ HOURS

TERM 1

END OF TERM 1 EXAMINATION

INSTRUCTIONS TO CANDIDATES

- ✓ Answer all questions in spaces provided

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

1. The cost of a computer is one of the key factor to consider when buying one. State the factors that determine the price of a computer (3mks)

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2. State any three advantages that flat screen displays have over the conventional cathode Ray Tube displays. (3mks)

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3. State any three characteristics of the Random Access memory (3mks)

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4. Name any two types of optical scanners (1mk)

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

5. What are the two main functions performed by UPS (2mks)

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6. State the purpose of registers in a computer system (1mk)

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7. A company has decided to computerize their operations. They have decided to purchase packages instead of developing their own programs. Give three advantages and two disadvantages of this approach (5mks)

Advantages

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Disadvantages

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

8. A school has bought a computer system. The hardware items supplied include:

A 800MHZ processor, 640MB of RAM, a sound card, speaker, a monitor, a keyboard, a 12GB hard disk, a floppy disk drive, a CD-Read/write drive, a mouse a modem, an inkjet printer and a joystick. The software supplied include: an operating system, A BASIC interpreter and the following packages: spreadsheets, graphics, word processor, art, database and games.

a) List three input devices from the given specification (3mks)

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b) Explain the meaning of the following;

i) 800MHZ (1mk)

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ii) 640 MB (1mk)

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iii) 12 GB (1mk)

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c) Some of the students in the school use the computer to do the homework.

Name the packages used to:

i) Do calculations and drawing graphs (1mk)

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ii) Write an essay (1mk)

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iii) Make poster (1mk)

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d) Students enjoy playing noisy computer games

i) Which two hardware items needed are to produce sound? (2mks)

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ii) Which input device is only used for playing games (1mk)

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9. a) What is thesaurus? (2mks)

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

b) Distinguish between auto complete and auto correct feature? (2mks)

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c) State and explain any two text alignment features (4mks)

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d) List two sources of graphics that can be used in Ms Word (2mks)

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10. State three examples of electronic word processors (3mks)

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11. Outline any three main features that make word processors popular programs. (3mks)

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12. Give three example of special-purpose computers (3mks)

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13. Give three comparisons of the traditional method of typing a document on a Typewriter against using a word processor (6mks)

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14. List and describe four elements of computer system (4mks)

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

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15. a) Define proofreading (2mks)

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b) Give four ways of proof reading a document in MS word (4mks)

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16. i) What is a warranty? (2mks)

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ii) State four qualities of a good warranty cover (4mks)

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

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17. Differentiate between the following.

i) Disk formatting and partitioning (2mks)

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ii) Compressing and defragmentation a disk (2mks)

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18. Explain why a computer room must;

i) Have good ergonomics (2mks)

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ii) Be well ventilated (2mks)

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iii) Have none-water based fire-extinguisher (2mks)

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

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19. a) Explain three types of computer disks (CD_s) (3mks)

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b) Cherotich bought aDVD-double layer to back up her files from a laptop. Given that the capacity of the DVD is 8.5GB, calculate the number of CDs-Rs, she would have bought if the double layer was not available (4mks)

c) Explain the meaning of WORM in reference to optical storage (2mks)

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

20. a) Mugabe tried to retrieve a file from the computer but did not appear as expected. State three possible causes for this. (3mks)

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b) With an aid of a diagram, explain the different between an analogue signal and a digital signal (4mks)

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c) Give three reasons why a mobile phone is regarded as a computer (2mks)

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

NAME: ……..……

SCHOOL: ……

ADM NO: …… SIGN: …… DATE: ……..

BRILLIANT STUDENTS

FORM 2 END TERM 1 SERIES 1 EXAMS

CRE

FORM TWO

END OF TERM ONE EXAMINATION

TIME: $2^1/_2$ HOURS

TERM 1

END OF TERM 1 EXAMINATION

INSTRUCTIONS TO CANDIDATES

- ✓ Answer five questions in spaces provided

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

1. a) State seven ways in which human beings act as co-creators with God. (7mks)

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b) From the story of the fall of human beings in Genesis chapter 3, state the effects of sin. (7mks)

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c) Give six ways in which the church helps to bring back members who have fallen from the faith. (6mks)

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

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2. a) Identify SEVEN reasons why Elijah faced danger and hostility as a Prophet of God(1Kings 18:17-46) (7mks)

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b) State the teachings about God from Mt. Camel contests. (7mks)

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c) Give **six** leadership qualities that Christians learn from the leadership of Elijah. (6mks)

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3. a) Identify ways in which King Solomon promoted Idol worship in Israel. (7mks)

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b) State **six** consequences of King Solomon's failure as King of Israel. (6mks)

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

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c) Give seven lessons that modern political leaders in Kenya can learn from King Solomon. (7mks)

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4. a) Outline the message of angle Gabriel to Mary in Luke 1:26-38. (7mks)

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

b) Identify what the magnificent reveals about the nature of God. (6mks)

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c) State **seven** reasons why Christians sing in the church in Kenya today (7mks)

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5. a) Identify **SEVEN** challenges John the Baptist faced in his ministry. (7mks)

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

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b) Describe the temptations of Jesus in the wilderness Luke 4:1-9) (7mks)

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c) State ways in which Christians can be tempted today. (6mks)

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6. a) Identify **SEVEN** reasons why divorce is rare in traditional African communities. (7mks)

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b) State **SEVEN** places where worship is carried out in traditional African communities. (7mks)

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c) List **six** duties of diviners in traditional African communities (6mks)

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

NAME: ……..……

SCHOOL: ……

ADM NO: …… SIGN: …… DATE: ……

BRILLIANT STUDENTS

FORM 2 END TERM 1 SERIES 1 EXAMS

ENGLISH

TIME: 2½HRS

END OF TERM ONE EXAMINATION

ENGLISH FORM 2

TIME: 2½HOURS

INSTRUCTIONS TO CANDIDATES

1. Write your details in the spaces provided above.
2. Answer all the questions in this paper.
3. Answer the questions in English

EXAMINER'S USE ONLY

QUESTION	MARKS	CANDIDATE'S SCORE
1	20	
2	10	
3	20	
4	30	
5	20	
TOTAL	100	

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1. COMPOSITION (20MKS)

Imagine that your uncle's family is travellingto Mombasa for weekend; and you have been invited to accompany them. Write a letter to your uncle accepting the invitation.

2. CLOZE TEST (10MKS)

Fill in the blank spaces with the most appropriate word

It was about one and ……..……1 half years since the emergency had ……2 declared in the Mt. Kenya Reserve. The situation had ……3 worse in the Rift Valley also. The Great Sweep had followed the emergency. Every Kikuyu, Embu and Meru as the passbooks disclosed, had his or ……4 movements controlled. This, however, was done whether one was ……5 .or not. Those who were guilty of aidingthe Mau Mau movement 6…… being swept from all over the country and taken back to the central province. It was like herding the cattle back into 7…… boma because they had broken through it.

Soon after the declaration of the emergency, only a few 8…….or women had been caught and detained. Nevertheless, this had not 9……the Mau Mau movement. The tirest fighters had become even tougher. It was their 10……they were fighting for and had sworn to fight the intruder to the end.

3. COMPREHENSION (20MRKS)

Read the passage below and answer the questions that follow

Let us do away with gender-defined roles

When God made women out of man according to the Biblical story of creation), He did not restrict her from doing certain types of jobs, nor did He forbid man from doing any kind of chores. The only problem with us today is that we think like those who lived in an age where men's roles and women's roles were clearly specified.

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Consequently, it is rare to find a man at home doing chores like washing the dishes, preparing supper for the family or even cleaning the house while the women of the house sits to watch the news or a programme she enjoys on television.This mindset has also been passed down to children, where you will find a girl working tirelessly around the house while her brother is comfortably stretched out on the sofa watching a movie. Why can't we train our children to do what needs to be done irrespective of their gender?

Personally, I was brought up in a home where chores are divided equally among those present, and no amount of protesting could exonerate me from my assigned chores, which is why I find this gender sensitivity somewhat discriminative. I once broached the issue of sharing chores with a friend of mine and his reaction was unpredictable, "You expect me to cook, wash the dishes, clean the house and look after the baby? These are things I can't do no matter how much I love her! My job is to put food on the table and secure our children's future," he responded passionately.These are biases so deeply ingrainedthat it seems odd if a man tells you that he is a nurse. The question that naturally comes to mind will be, "Isn't that a woman's job?" because you expect a nurse to be a woman in a pretty white or small stripped dress and a white cap. However, the truth is that men are just as capable of providing nursing care as their female counterparts.

And turning to politics, how many of our constituencies have female representatives in parliament? Just a handful. And how many countries in the world have women presidents or prime ministers? Another handful. Many women have joined politics hoping to succeed where men have failed but quit after being frustrated by men's obvious lack of trust in their abilities. But from those who have persevered, we cansee that women do better than men since they start this from the basic level of the home, where they take care of their families and do everything to keep them going.

Another very peculiar field is football. Fans flock pubs to watch male players juggle the ball and make their fancy moves and sometimes fights erupt after heated arguments about football games like the World Cup, premier League and other tournaments. But I have never heard people fight over the Women's World Cup or anybody disappointed after a women's team he supports took a thrashing from an opponent.

Careers like engineering have also been affected by this negative trend. It is getting increasingly rare to find a woman in overalls lying under a heavy truck checking for engine trouble or repairing the brakes. This is considered a man's job and many people believe a woman cannot do it properly.

I believe is it time we got rid of these outdated beliefs and started appreciating women for who they are. We should give them a chance to prove themselves and open up more opportunities for them. Men should also realize that to do perfectly, one requires brain, not brawn,and if this continues, it will do more harm than good. Besides, what a man can do, a woman can do, sometimes even better. Giving women an opportunity, will create a balance and bring out the best in everyone.

(Adapted from: *Daily Nation* 24th February 2010, *Living Magazine* page 2-Gichuru Hebson)

Questions

a) According to the passage, what seems to cause conflicts in gender roles today? (1mk)

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b) What is the author's opinion of defined gender roles (1mk)

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c) How has his upbringing contributed to this opinion? (1mk)

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d) Make notes on duties of men and women as brought out in the passage (5mks)

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e) Identify any three careers that are considered male dominated in our society today (3mks)

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f) In your opinion, should there be gender defined duties for boys and girls? (2mks)

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g) According to the passage, what should be done to get rid of the outdated practice of defined gender roles? (3mks)

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h) Explain the meaning of the following words as used in the passage. (4mks)

i.Exonerated

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ii.Ingrained

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iii.Peculiar

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iv.Brawn

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4. ORAL SKILLS (30MKS)

a) Choose the correct words to fill the blanks (6mks)

i.The beautiful lady with shinny ……named Nora as her ……. (hare, heir,hair)

ii.If Peter lets the bird ……., he might ……it forever. (Lose, loose, loss)

iii.When you ……too quickly, you could run out of …… (breath, breadth, breathe)

iv.The young farmers keep ……for their ……farming. (diary, daily, dairy)

v.The tailor bought a ……to make a ……for the beautiful girl. (Clothe, cloth, clothes)

vi.They……the cattle in the ……cattle ……(deep, dipped, dip)

b) Use the following words to construct two sentences. (4mks)

One as a noun and the other on its verb form

i.Project

……

……

……

ii.Air

……

……

……

c) Identify the silent letters in the following words (5mks)

i.Fascinate

ii.Wrist

iii.Slaughter

iv.Handkerchief

v.Fasten

d) Indicate the correct intonation for the following sentences (3mks)

i.Can I take you home?

……

ii.How did she travel to Nairobi?

……

iii.I have been working very hard for the coming examination.

……

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e) Pick the odd one out according to the pronunciation of words in each group in reference to the letters underlined (2mks)

Charade Church Chauffeur Chasis

……

Axe Xenon Tax Maximum

……

f) Read the poem below and answer the questions that (10mks)

I had a dream last night I dreamt.

I had to pick a mother out.

I had to pick a father too.

At first, I wondered what to do,

There were so many there, it seemed,

Short and tall and thin and short.

But just before I sprang a wake,

I knew what parent I would take.

And this surprised and made me glad,

They were the ones I always had.

Questions

a) Describe the rhyme scheme of the above poem. (2mks)

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b) Apart from rhyme identify three aspects of style based on pronunciation. (3mks)

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c) Which words would you stress in line 7 and why? (3mks)

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d) How would you say the last line of the poem (2mks)

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5. <u>GRAMMAR (20MKS)</u>

a) Rewrite the following sentences according to the instructions given in brackets. (3mks)

i. My sister cooked lunch at two o'clock (Begin: Lunch…)

……

ii. The child saw a Lion in the forest (change into the negative)

……

iii. There were dresses of girls in the shop (Use the possessive noun)

……

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b) Fill in the blank spaces with an appropriate preposition (3mks)

i.There was a snake ……the hole.

ii.We went to Mombasa ……air.

iii.……rearing livestock, Musa also keeps fish.

c) Complete the sentences below using an appropriate form of the word given in brackets. (4mks)

i.The sick girl looked ……(help)

ii.The village was ……(access) due to the bad roads.

iii.His poor ……(pronounce) affected his delivery of the acceptance speech.

iv.Such an ……(occur) would scare the people.

d) Punctuate the following sentences. (2mks)

i.watch out there is a speeding car

……

……

ii.if it rains we will not travel James noted

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e) Fill in each gap in the following sentences with the progressive form of the verb in brackets (2mks)

i.The men ……..(argue) on top of their voices.

ii.My family ……(plan) to have a holiday at the coast in August.

f) Fill in the blank spaces with the correct form of the adjectives given in brackets (3mks)

i.Njoki is the ……(bright) of her two friends.

ii.This flower is ……(pretty) than that one.

iii.Biashara market is the ……(far) of all the markets you have mentioned.

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g) Use an appropriate quantifier phrase to complete the sentences below. (3mks)

i.**……**money was spent in constructing the railway line.

ii.**……**people attended the rally.

iii.Serve me **……**juice, please.

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NAME: ……..……

SCHOOL: ……

ADM NO: …… SIGN: …… DATE: ……

BRILLIANT STUDENTS

FORM 2 END TERM 1 SERIES 1 EXAMS

END OF TERM ONE EXAMINATION

FORM TWO

GEOGRAPHY
TIME: 2 HOURS 30 MINUTES

INSTRUCTIONS:
a). Write your name, class and Admission number in the spaces provided above.
b).Answer all the questions
c). All answers must be written in the space provided in this booklet.

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SECTION A

1. a) What is the time at station Y 30°W when the time at point Z 20°E is 4.00 p.m. (2 mks)

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b) State three effects of the earth revolution. (3 mks)

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2. a) What are the effects on the shape of the earth by the following forces. (3 mks)

i) Centrifugal force

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ii) Centripetal force

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iii) Gravitation force

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b) Give the two reasons why the interior of the earth is still very hot. (2 mks)

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3. Stat three conditions for formation of dew. (3 mks)

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4. State three characteristics of extrusive rocks. (3 mks)

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5. a) Give two reasons why it is necessary to study the plate tectonic theory. (2 mks)

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b) Name two types of tectonic plate boundaries. (2 mks)

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SECTION B

6. a) Name three types of maps studied in geography. (3 mks)

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b) State three ways of locating places on maps. (3 mks)

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c) State three common types of marginal information found in the margin of a map sheet. (3mks)

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d) The following table shows rainfall and temperature of town X. Use the figures given to answer the questions that follow.

Month	J	F	M	A	M	J	J	A	S	O	N	D
Temp (^{o}c)	23	24	26	28	29	28	26	26	26	30	28	25
Rainfall (mm)	3	0	3	1	18	500	720	408	300	70	15	0

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Find:

i) The total annual rainfall. (2 mks)

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ii) The wettest month. (1 mk)

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iii) Annual range of temperature. (2 mks)

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iv) Mean annual rainfall. (2 mks)

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v) The hottest month. (1 mk)

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e) Name two instruments which could have been used to collect data in the table above.(2 mks)

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7. a) Apart from the rift valley, name three other relief features that were formed as a result of faulting. (3 mks)

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b) With the aid of well labelled diagrams describe how a rift valley is formed by tensional forces. (8mks)

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c) Students are planning to carry out a field study of a faulted landscape. State four reasons why it is important for them to carry out a pre-visit to the area of study. (4mks)

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8. a) i) Name three volcanic features found in the rift valley of Kenya. (3 mks)

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ii) State two negative effects of vulcanicity in Kenya. (2 mks)

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iii)Describe the characteristics of a composite volcano. (3 mks)

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b)i) Name two types of earthquake waves. (2 mks)

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ii) State five ways in which the earth's crust is affected by earthquake. (5 mks)

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9. a) What is a rock? (2 mks)

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b) Classify the rocks listed in the table below. (5 mks)

Name of rock	**Class**
Marble	
Gneis	
Peridotite	
Sandstone	
Granite	

c) i) State two methods of estimating the age of rocks. (2 mks)

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ii) State four factors that influence metamorphism in rocks. (4 mks)

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d) State two characteristics of sedimentary rocks. (2 mks)

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10. a)i) Give two examples of non-metallic minerals. (2 mks)

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ii) Name the minerals mined in each of the following places in East Africa. (3 mks)

I. Kereita in Limuru Kenya – **……**

II. Geita in Tanzania – **……**

III. Kilembe in Uganda – **……..**

b) Describe how shaft mining is carried out. (5 mks)

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c)Name three conditions necessary for the formation of petroleum. (3 mks)

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d) State two effects of mining on environment. (3 mks)

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SCHOOL: ……

ADM NO: …… SIGN: …… DATE: ……

BRILLIANT STUDENTS

FORM 2 END TERM 1 SERIES 1 EXAMS

END OF TERM ONE EXAMINATION
FORM TWO
HISTORY
TIME: 2 HOURS 30 MINUTES

INSTRUCTIONS:

a). Write your name, class and Admission number in the spaces provided above.
b).Answer all the questions
c). All answers must be written in the space provided in this booklet.
d) This paper consists three section A, B and C . Answer all questions in section A, three in section B and two in section C.

SECTION	QUESTIONS	SCORE
A	1- 17	
B	18	
	19	
	20	
	21	
C	22	
	23	
	24	
	TOTAL	

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SECTION A **(25 MARKS)**

Answer <u>ALL</u> questions in this section.

1. State the main disadvantages of oral information in History and Government. (1 mk)
2. Identify two artefacts used by archaeologists to reconstruct history of the people who lived in the pre-historic sites. (2 mks)
3. Give two hunting methods employed by early man. (2 mks)
4. State the meaning of the term Agrarian revolution. (1 mk)
5. Identify two forms of picture writing used during the early civilization. (2 mks)
6. Identify one kingdom in West Africa that contributed to the development of Trans-Saharan trade. (1 mk)
7. Give two reasons why barter trade was replaced by currency trade. (2 mks)
8. State the main impact of air transport in the 20^{th} century. (1 mk)
9. Name the person who invented the railway locomotive. (1 mk)
10. State two ways of becoming a Kenyan citizen. (1 mk)
11. Give two Roman Catholic missionary groups who started mission stations in Kenya during the colonial period. (2 mks)
12. Identify the original homeland of the Eastern Cushites (1 mk)
13. Identify two communities in Kenya which took part in the long distance trade during the 19^{th} century. (2 mks)
14. Give the main reason why the early visitors from Arabia came to the Kenyan coast by 1500. (1 mk)
15. Give two reasons why national unity is important. (2 mks)
16. Give the meaning of this term conflict resolution. (1 mk)
17. Name the document that contains this right of citizens in Kenya. (1 mk)

SECTION B **(45 MARKS)**

Answer any <u>THREE</u> questions in this section.

18. (a) Identify three methods used by archaeologists to date fossils. (3 mks)
(b) Describe the way of life of the early man in the New Stone Age period. (12 mks)

19. (a) Give five reasons that made man to start practising agriculture. (5 mks)
(b) Explain five causes of food shortages in developing countries. (10 mks)

20. (a) State three ways in which Tuaregs contributed to the development of Trans-Saharan trade. (3 mks)
(b) Explain six factors that led to the decline of Trans-Atlantic trade. (12 mks)

21. (a) List five forms of communication used to send messages to distance places in the shortest possible time. (5 mks)
(b) Explain five disadvantages of air transport. (10 mks)

SECTION C: **30 MARKS**

Answer any <u>TWO</u> question in this section.

22. (a) State three rights that a jailed person is denied. (3 mks)
(b) Explain six methods of peaceful resolution of conflicts. (12 mks)

23. (a) Give three councils in the Ameru political system. (3 mks)
(b) Explain the political organization of the Agikuyu in the pre-colonial period. (12 mks)

24. (a) Give five reasons why the Christian missionaries established mission stations in Kenya in the 19th century. (5mks)
(b) Explain five factors that led to the development of plantation agriculture along the East African coast in the 19th century. (10mks)

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NAME: ……..……

SCHOOL: ……

ADM NO: …… SIGN: …… DATE: …….

BRILLIANT STUDENTS

FORM 2 END TERM 1 SERIES 1 EXAMS

END OF TERM ONE EXAMINATION

FORM TWO

441/1 HOME SCIENCE THEORY

TIME: 2½ HOURS

Instructions to candidates:

3. This paper consists of three sections A, B and C.
4. Answer all questions from section A and B.
5. Answer **any two** questions from section C.

Section	Question	Maximum Score	Candidate's Score
A	1 - 18	40	
B	18	20	
C	19	20	
	20	20	
	21	20	

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SECTION A: Answer all the questions in this section.

1. State two reasons for keeping the pit latrine covered at the hole when not in use. (2mrks)

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2. Give three reasons why kitchen refuse should be disposed off regularly. (3mrks)

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3. Mention three sanitary practices necessary in life. (3mrks)

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4. State three ways of caring for a washing machine. (3mrks)

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5. State three factors which affect the efficiency of laundry detergent. (3mrks)

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6. Give two reasons for use of bleaches in laundry. (2mrks)

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7. Give two reasons for airing clothes and household articles after finishing. (2mrks)

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8. Suggest three reasons for storing clothes and articles in storage facilities after ironing.(3mrks)

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9. Giving reasons identify three fabrics which must be flat dried under the shade. (3mrks)

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10. Give two reasons for removing stains before washing. (2mrks)

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11. Identify two contagious diseases that affect our skin as a result of poor sanitation. (2mrks)

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12. Explain three importance of environmental hygiene to a community. (3mrks)

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13. State four precautions to observe when using a charcoal iron. (4mrks)

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14. Explain other two methods of bleaching clothes other than using commercial bleaches.(4mrks)

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15. Mention a condition that may be spread by sharing the following personal effects:

a) A comb. (½ mrk)

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b) A toothbrush. (½ mrk)

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SECTION B: (COMPULSORY). (20 marks)

16. You are preparing to go back to school after mid-term break.

(a) Explain how you would thoroughly clean your black canvas shoes which you will carry as you go back to school. (10mrks)

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(b) Describe how to thorough clean a toothbrush. (5mrks)

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(c) Describe how you would wash your white towel. (5mrk)

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SECTION C: Answer any two questions in this section. **(40marks)**

17. (a) Give the functions of the following parts of a sewing machine. (10mrks)

(i) Spool pin

(ii) Balance wheel

(iii) Stop motion screw

(iv) Stitch length regulation

(v) Feed dog

(vi) Presser foot

(vii) Needle clamp

(viii) Tension disk

(ix) Take up lever

(x) Machine belt

(b) Identify the small sewing equipment with each of the following use:

(i) Used for measuring small width such as hem. (1mrk)

(ii) Used for marking pattern symbols. (1mrk)

(iii) Used for hanging complete or nearly complete garments. (1mrk)

(iv) Used for making holes and eyelets. (1mrk)

(v) Used when fitting garments. (1mrk)

(vi) For storing small needle work tools. (1mrk)

(vii) For measuring long straight lines and for marking skirt length. (1mrk)

(viii) Used to press work after every stage of construction. (1mrk)

(c)Give two reasons for using a thimble when stitching. (2mrks)

18. (a) State six practices that would help prevent loss of colour during laundry. (6mrks)

(b) State six desirable qualities of a good clothes line. (6mrks)

(c) State eight precautions to take to ensured water is safe from disease causing germs.(8mrks)

19. (a) List six dangers on careless disposal of polythene bags. (6mrks)

(b) Suggest six ways of preventing a knife from damage during its use and care. (6mrks)

(c) State eight reasons why bar soap is commonly used in our houses. (8mrks)

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JINA: ……..……

SHULE: ……

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

BRILLIANT STUDENTS

FORM 2 END TERM 1 SERIES 1 EXAMS

TATHMINI YA MWISHO WA MUHULA

INSHA

MUHULA WA KWANZA

KIDATO CHA PILI

MUDA: DAKIKA 50

MAAGIZO

Insha yako isipungue maneno 300

Andika insha kuhusu jinsi ya kuhifadhi mazingira katika eneo gatuzi lenu. Alama 20

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JINA: ……..……

SHULE: ……

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

BRILLIANT STUDENTS

FORM 2 END TERM 1 SERIES 1 EXAMS

TATHMINI YA MWISHO WA MUHULA

MUHULA WA KWANZA

KIDATO CHA PILI

MUDA: SAA 2

MAAGIZO:

Jibu maswali yote katika mtihani huu.

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UFAHAMU **(ALAMA 15)**

Soma taarifa ifuatayo kisha ujibu maswali yanayofuatia.

Macho ya Abdul yalipigwa na mwali mkali wa jua la asubuhi. Ilikuwa ndiyo mara yake ya kwanza kuuona mwanga halisi wa ombwe lijiitalo dunia tangu alipohukumiwa kifungo gerezani. Punde tu komeo la mlango wa seli lilipofunguliwa, ilimlazimu Abdul ayafumbe macho kabla ya kuyafumbua tena taratibu ili yazoee mabadiliko yake.

Ilikuwa ndiyo siku ya Abdul ya kuachiliwa huru kutoka kwenye kifungo kirefu kilichoyapa macho yake mazoea ya giza la kaburi mle gerezeni. Macho yake yalipokwishaizoea ile hali na kumhakikishia kuwa kila alichokuwa akikiona si kizuka ila uhalisia, alipiga hatua. Akatoka nje ya mlango wa seli, kisha kwa kutoamini, akageuka nyuma kulitazama tena lile pango alimokuwa ametikwa katika muda huo wote. Akayafikicha macho kwa kutoamini huku machozi yakimdondoka asijue kama yalikuwa ya furaha au ya huzuni. Alipogeuka kuanza safari ya uhuru wake, macho yake yalikumbana na lango la gereza. Hapo, akasita kidogo, labda kuhakikisha kama kweli alikuwa huru. Bila shaka, hakuna askari wa gereza aliyemshikia bunduki au kumuamuru asimame. Walimtazama tu na kumpa tabasamu.

Taratibu, Abdul aliendelea kupiga hatua. Mhemko aliokuwa nao kutokana na hewa safi iliyompenya mapafuni uliufanya moyo wake upige kwa kasi. Ghafla, tabasamu ikapasua mashavuni pake. Akasita. Akaiinua pua yake iliyompa hakikisho kuwa uvundo na uozo wa seli haukuwa naye tena. Ingawa mwili wake ulijaa mabaka ya uchafu na matambara yaliyouficha uchi wake kuvunda, hilo halikumkera tena. Kwa hivyo, akatia tena tabasamu. Lake kuu lilikuwa shukrani kwa kuepuka yale madhila ya joto na rundo la wafungwa. Na kama hilo halikutosha, aligeuka tena ili sasa kuliangalia lile gereza. Bila kutarajia, alipiga magoti, akainua mikono kupiga dua, ―Ewe Mungu, niepushe na balaa nyingine.

Safari ya Abdul kutoka katika majengo ya gereza ilikumbwa na mseto wa mawazo. Alipokuwa katika ujia uliomwelekeza katika barabara kuu, mambo mengi yalimpitikia mawazoni asipate jawabu. Hakujua kama wazazi wake walikuwa wangali hai, na kama walikuwa bado wanaishi katika nyumba ile ya kukodi kwa miaka hiyo kumi aliyokuwa jela. _Je, nikiwakosa, nitaenda wapi? Nitaanzia wapi kuwatafuta?‘ Mawazo hayo yaliifungua mifereji ya machozi, kisha ile ya makamasi. Balagha hiyo ilimfikisha katika kituo cha magari ya uchukuzi kwa ule aliouona kuwa muda wa kufumba na kufumbua. Aliyafuta machozi yake haraka kwa kiganja kisha akaziba tundu la pua, tayari kupenga kamasi. Hata hivyo, kabla hajafanya hivyo, nafsi yake ilimtahadharisha kuwa hatua hiyo ingekatiza uhuru aliopewa kwa kuchafua mazingira. Kwa hivyo akaghairi. Akavuta ncha ya shati lake na kuitumia kama hankachifu kutimiza azma yake.

Hapo kituoni, matatu iliyokuwa mbele ilikuwa na watu wachache. Abdi akaingia na kukaa upande wa kioo ambapo tafakuri nyingi zilimjia. Akakumbuka jinsi kesi yake ilivyoendeshwa kinyume kabisa na ukweli na hukumu kutolewa kinyume cha haki. Mimi Abdul, mtoto twaa tangu kuzaliwa kwangu hata mdudu sijawahi kumponda kwa udole wangu, ndiyo sasa nije kusingiziwa kuua mtu? Mungu wangu! Kwa nini dunia hii haina wema? Kwa nini wanaodaiwa kuwa wasomi hata wakapewa jukumu la kuwakilisha maslahi ya raia ndio wanaowadhulumu hao raia? Hivi, hata hukimu na tajiriba yake

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aliamua kufuatilia zile porojo za wanaojiita majasusi? Angeahirisha hukumu yake ili kufanya uchunguzi zaidi, bila shaka nisingepata mapigo na dhuluma hizo zote. Kwa kweli, hii ni dunia ya mwenye nguvu mpishe! Abdul alijisemea. **Maswali**

(a) Kwa nini Abdul alifungwa? (alama 2)

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(b) Kwa kurejelea kifungu eleza mashaka katika asasi za kurekebisha tabia. (alama 4)

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(c) Ni kinyume kipi kinachoonekana katika kifungu hiki? (alama 2)

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(d) Ni mambo yapi yaliyomtia Abdul machugamachuga alipoachiliwa huru. (alama 2)

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(e) Abdul anaelekea kuwa na hulka gani? Fafanua kwa kurejelea kifungu. (alama 2)

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(f) Msamiati ufuatao una maana gani kwa mujibu wa kifungu hiki. (alama 2)

(i) Ombwe……

(ii) Mhemko……

MATUMIZI YA LUGHA **ALAMA 35**

a) Eleza tofauti kati ya sauti hizi. Alama 4

i) /y/ na /z/

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ii) /t/ na /h/

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b) Andika katika ukubwa wingi. Alama 2

Ndovu amezaa ndama mkubwa sana.

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c) Toa mfano wa neno lenye silabi ya konsonanti pekee alama 1

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d) Akifisha alama 2

Tupa kifaa cha kunolea kisu na air conditioner huuzwa kwa bei ghali.

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e) Amrisha katika nafsi ya tatu wingi. Alama 2

Uandike insha ndefu.

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f) Badilisha sentensi hii katika usemi wa taarifa. Alama 2

“Itakubidi urauke alfajiri iwapo unataka kusafiri nami kesho,” mjomba alisema.

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g) Andika vinyume vya vitenzi katika sentensi ifuatayo. Alama 2

Chebet aliingia garini na kufunga kioo.

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h) Viorodheshe vipashio vya lugha ukianza na cha juu Zaidi. Alama 2

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i) Ainisha mofimu katika: alama 3

Alinywewa maziwa

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j) Tambua wakati na hali katika sentensi ifuatayo. Alama 3

Mhazigi atakuwa ameiunganisha mifupa iliyovunjika

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k) Unda nomino mbili kutokana na kitenzi ‘tahini’. Alama 2

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l) Neno hili limo katika ngeli gani? Alama 1

Kinda

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m) Tumia nomino ya jamii badala ya maneno yaliyopigiwa mstari. Alama 1

<u>Kundi la wachawi</u> lilitiwa mbaroni jana.

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n) Andika katika wingi alama 2

Mtoto wake alilelewa kwenye ukoo huu

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o) Yakinisha alama 2

Wakulima wasipopalilia mahindi yao hawatapata mazao.

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p) Pambanua sentensi ifuatayo kwa kielelezo cha mstari alama 4

Mwanahamisi alilishona rinda lake vizuri.

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q) Ainisha viambishi katika neno lifuatalo alama 3

Waliochezewa

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ISIMUJAMII **ALAMA 10**

"…maandiko yanasema kwamba siku ya kiama tutapaa angani na mwenye uwezo."

a) Tambua sajili ya kauli iliyopo hapo juu. (alama 2)

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b) Kwa kutoa mifano mwafaka, taja sifa bainifu za sajili uliyoitambua hapo juu. (alama 8)

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FASIHI SIMULIZI **ALAMA 20**

a) Eleza sifa zozote tano za hadithi (alama 10)

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b) Eleza sifa za mtambaji bora wa ngano (alama 10)

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NAME: ……..……

SCHOOL: ……

ADM NO: …… SIGN: …… DATE: ……

BRILLIANT STUDENTS

FORM 2 END TERM 1 SERIES 1 EXAMS

MATHEMATICS

TIME: 2 HOURS 30 MINUTES

INSTRUCTIONS TO CANDIDATES:

- Write your name, admission number, Class, Signature and write date of examination in the spaces provided
- The paper contains two sections. Section I and Section II.
- Answer ALL the questions in section I
- Answer any five questions in section II.
- Answers and working must be written on the question paper in the spaces provided below each question.
- Show all steps in your calculations below each question.
- Marks may be given for correct working even if the answer is wrong.
- KNEC mathematical table may be used, except where stated otherwise.

FOR EXAMINERS USE ONLY

SECTION I

Question	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	TOTAL
Marks																	

SECTION II

Question	17	18	19	20	21	22	23	24	TOTAL
Marks									**GRAND TOTAL**

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SECTION I (50 MARKS)

Answer all the questions from this section

1. Work out the following, giving the answer as a mixed number in its simplest form

$$\frac{\frac{2}{5}\div\frac{1}{2}of\ \frac{4}{9}-1\frac{1}{10}}{\frac{1}{8}-\frac{1}{6}\times\frac{3}{8}}$$ (3marks)

2. When a certain number is divided by 30, 45, 54, there is always a remainder of 21. Find the least numbers. (3marks)

3. Evaluate without using mathematical tables of a calculator,

$\frac{0.0084\times1.23\times3.5}{2.87\times0.056}$ expressing your answer as a single fraction. (3marks)

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4. Use logarithm to solve tables to evaluate (4 marks)

$$\sqrt[3]{\frac{45.3\times 0.00697}{0.534}}$$

5. If each interior angle of a regular polygon is 150^0, how many sides does the polygon have? (3 marks)

6. Solve for x in the equation

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

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7. Use reciprocal table to work out.

$$\frac{7}{0.5283} + \frac{0.5}{3.735}$$ (4marks)

8. Three pens and four exercise books cost sh. 87. Two pens and five exercise books cost sh.93. Find the cost of one pen and one exercise book. (3marks)

9. A Kenyan Company received US dollars 100,000. The money was converted into Kenya Shillings in a bank which buys and sell foreign Currencies as shown below.

	Buying (kshs)	**Selling (ksh)**
1 US Dollar	77.25	77.44
1 sterling pound	119.93	120

a) Calculate the amount of money in ksh, the Company received. (1mark)

b) The company charged the Kenya shillings calculated above into sterling pounds to buy Car in Britain. Calculate the cost of the car to the nearest sterling pounds. (2marks)

10. A company saleslady sold goods worth sh. 1,600,000. From this sale she earned a commission of sh. 40,000.

a) Calculate the rate of Commission. (1mark)

b) If she sold goods whose marked price was sh. 3 600,000 and allowed a discount of 2%, calculate the amount of commission she received. (2marks)

11. A piece of metal has a volume of $20cm^3$ and a mass of 300g. Calculate the density of the metal in kg/m^3. (3marks)

12. The area of a sector of a circle of diameter 126cm is 4158cm^2. Calculate the angle subtended at the centre of the circle. (Take pie $=\frac{22}{7}$) (3marks)

13. Simplify completely by factorization. (3 marks)

$$\frac{ax + bx + ya + yb}{ma + mb + na + nb}$$

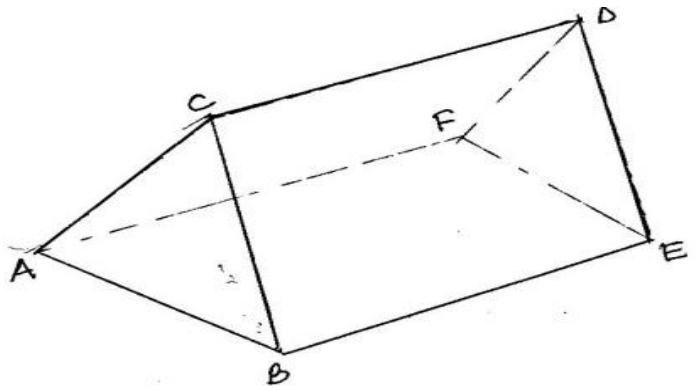
14. Evaluate: $\frac{-12\div(-3)\times4-(-20)}{-6\times6\div3+(-6)}$ (3 marks)

15. Use the tables of cubes to evaluate: (3 marks)

$(3.461)^3 - \sqrt[3]{2809}$

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16. The figure below is a prism whose cross-section is an equilateral triangle such that AB=BC=CA=3cm, BE=CD=AF=5cm



Draw the net of the prism (3marks)

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SECTION II (50 MARKS)

Answer five questions only from this section

17. A line L passes through point (-2,3) and (-1, 6) and is perpendicular to a line P at (-1, 6)

a) Find the equation of L. (3marks)

b) Find the equation of P in the form ax + by = c. (3marks)

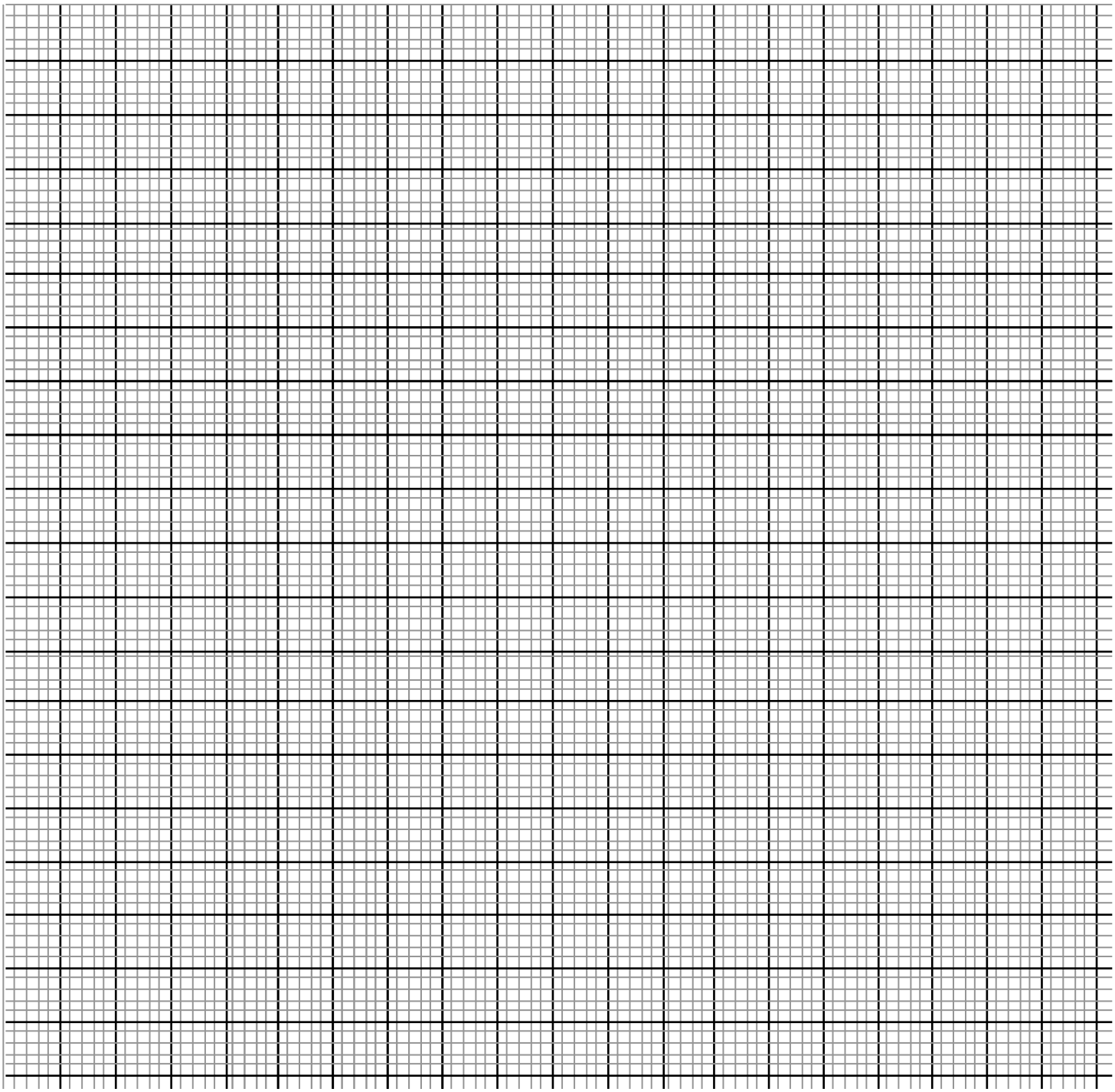
c) Given that another line Q is parallel L and passes through point (1, 2), find the x and the y intercepts of line Q. (2marks)

d) Find the point of intersection of lines P and Q. (2marks)

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18. Triangle PQR has vertices at P(2,3),Q(1,2) and R(4,1), while triangle $P^1Q^1R^1$ has vertices at $P^1(-2,3)$,$Q^1(-1,2)$, R^1 (-4,1).

(a) (i) Draw triangle PQR and $P^1Q^1R^1$ on the grid provided below (2marks)



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(ii) Describe fully a single transformation which maps triangle PQR onto triangle $P^1Q^1R^1$. (1mark)

(b) (i) On the same plane, draw triangle $P^{11}Q^{11}R^{11}$ the image of PQR, under reflection on line $y + x = 0$ (2marks)

(ii) Describe fully a single transformation which maps triangle $P^{11}Q^{11}R^{11}$ onto triangle $P^1Q^1R^1$. (1mark)

(c) Draw triangle $P^{111}Q^{111}R^{111}$such that it can be mapped onto triangle PQR by a positive quarter turn about the origin (2marks)

(d) State all pairs of triangles that are oppositely congruent (2marks)

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19. A businessman sold a car at sh.900 000 after allowing his customer a 10% discount on the marked price of the car. In so doing he made a profit of 20%.

a) Calculate

(i) The marked price of the car. (3 marks)

(ii) The price at which the businessman had bought the car (2marks)

b) If the businessman had sold the same car without giving a discount. Calculate the percentage profit he would have made. (3 marks)

c) In the month of December the businessman sold 20 vehicles without giving a discount. Determine the total profit he received from the sale. (2 marks)

20. Four towns A, B, C and D are such that town B is 180 km East of A. Town C is at a distance of 120km on a bearing of 300^0 from B. Town D is due West of C and North Of A.

(a) Using a scale of 1cm to represent 20km, make an accurate scale drawing to show the relative positions of the towns. (4 marks)

(b) Find:

(i) Determine the bearing of C from A (1mark)

(ii) Determine the distance of C from D (2 marks)

(iii) Determine the bearing of B from D (1 mark)

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(iv) Determine the distance of A from D (2 marks)

21. The measurements (in metres) of a field were given in a field note book as follows:

Base line XY = 240m

	Y	
	150	50 to P
To Q 60	120	
	50	20 to M
	X	

(a) Using a scale of 1 cm to represent 20 m, draw an accurate map of the farm. (4 marks)

(b) **Find** the area of the field in hectares. (4marks)

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(c) If the farm is on sale at sh. 900 000 per hectare, find how much the farm costs. (2 marks)

22. Triangle ABC is such that AB = 7cm, angle ABC = 120^0 and angle BAC = 30^0.

(a) Using a ruler and a pair of compass only, construct triangle ABC. (3 marks)

(b) Measure the length of:

(i) Line BC (1 mark)

(ii) Line BC (1 mark)

(c) Drop a perpendicular from C to meet line AB extended at M. (2 marks)

(d) Measure the length of line CM (1 mark)

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(e) Calculate the area of triangle ABC (2 marks)

23. A hollow metal pipe whose internal and external and internal diameters are 6.3cm and 2.8cm respectively is 3.5m long.

(a) Calculate the volume of the metal used to make the pipe. (4 marks)

(b) The pipe is melted down and recast into a solid cylinder of height 1.75m. Calculate the radius of the cylinder to two decimal places. (4 marks)

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(c) Given that the density of the metal above is 4.2g/cm^3, calculate the mass of the solid cylinder in kilograms. (2 marks)

24. Three business people Kamau, Gachui and Maina agreed to contribute Kshs. 1 210 000 to start a business. The ratio of Kamau's contribution to Gachui's contribution is 3 : 2 while that of Gachui to Maina is 1 : 3.

(a) Determine the ratio of Kamau's contribution to Maina's contribution. (2 marks)

(b) Determine the amount of money contributed by Kamau (2 marks)

(c) They agreed to share their profits as follows;

50% to be shared in the ratio of their contributions

40% to be retained for the running of the business

10% to be set aside for emergencies

If their total profit for the year 2014 was sh.704 000, determine the

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(i) Amount of money retained for running the business. (2 marks)

(ii) The amount of money set aside for emergencies. (2 marks)

(iii) The amount of received by Gachui (2 marks)

NAME: ……..……

SCHOOL: ……

ADM NO: …… SIGN: …… DATE: ……

BRILLIANT STUDENTS

FORM 2 END TERM 1 SERIES 1 EXAMS

FORM TWO

PHYSICS 232

END OF TERM ONE EXAMINATION

TIME : 2 ½ HOURS

INTRODUCTIONS TO CANDIDATES

Write your name, Admission number and school

- Write your name, Admission number, in the spaces provide.
- This paper consists of TWO sections: A and B
- Answer ALL questions in section A and B in the spaces provided.
- ALL working MUST be clearly shown.
- Mathematical tables and electronic calculators may be used.

FOR EXAMINERS USE ONLY

SECTION	QUESTION	MAXIMUM SCORE	CANDIDATES SCORE
A	1-25	5OMKS	
B	26	07	
	27	06	
	28	08	
	29	07	
	30	08	
	31	06	
	32	08	
		100MKS	

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SECTION 1

ANSWER ALL QUESTIONS (5OMKS)

1. The figure 1 below shows a micrometer screw gauge used to measure the diameter of a piece of wire.

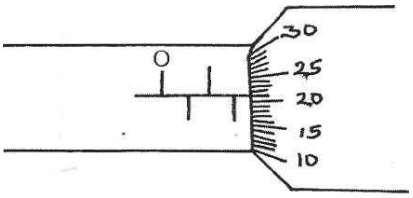


Figure 1

i. Determine the reading on the scale of the micrometer screw gauge (2mks)

ii. If the micrometer screw gauge has an error such that if the jaws are closed without any object, it reads 0.04mm below the centre line of the sleeve, determining the actual cross sections area of the of wire. (2mks)

2. Distinguish between heat and temperature. (2mks)

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3. State one disadvantage of using a pin hole camera to take photographs (1mk)

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4. In an oil drop experiment a student estimated the dimeter of the oil patch to be 0.16m, given that the volume of the oil drop was 0.048cm^3.

i. Determine the thickness of the oil patch

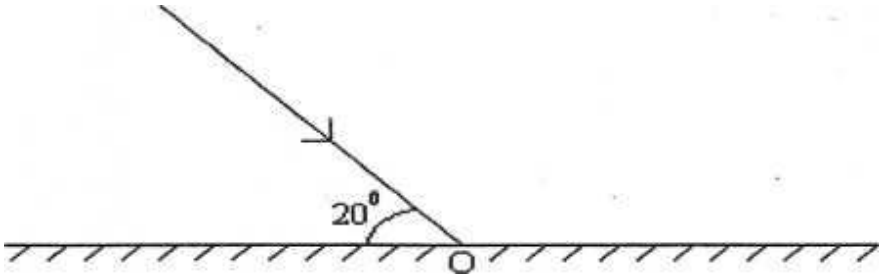
ii. State an assumption made in the above calculations (1mk)

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5. A ray of light makes an angle of 20^0 with a plane mirror as shown in figure 2 below.



Determine the angle of reflection (2mks)

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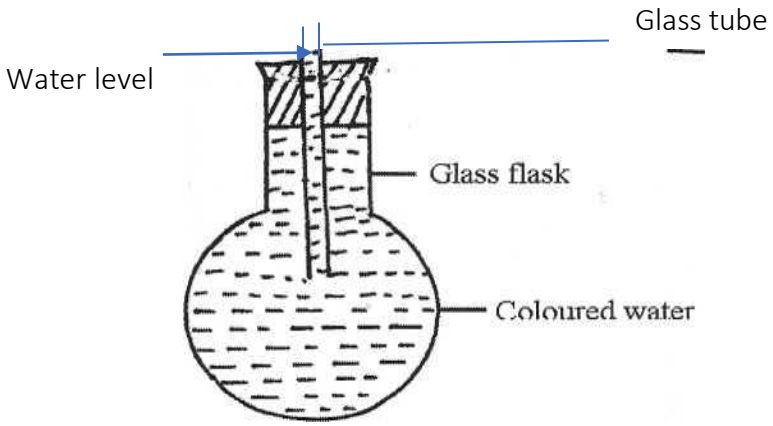
6. Give a reason why fuel tanks of Kenya Pipeline Company are silvery painted (1mk)

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7. The figure 3 below shows a flask filled with coloured water. The rubber cork is pushed in until the in water rises a short distance in the glass tube.



State and explain what is observed when the flask is placed in a hot water bath (2mks)

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8. Two identical sphered A and B each standing on an insulating base are in contact. A negatively charged rod is brought near sphere A as shown in figure 4

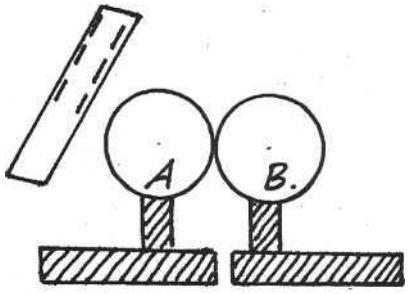


Figure 4

State and explain the charged acquired by A and B (2mks)

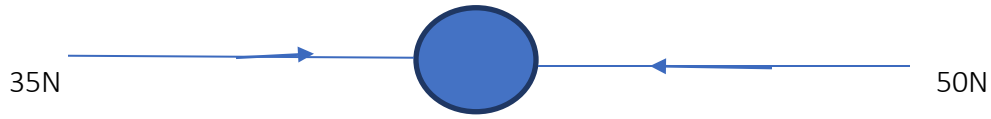
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9. Sketch a diagram to show the direction and magnitude of the resultant force for two forces acting as shown in figure 5 below (1mk)



10. In an experiment to demonstrate Brownian motion, smoke was placed in an air cell and observed under a microscope. Explain the observation. (2mks)

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11. What property of light is illustrated by formation of shadows? (1mk)

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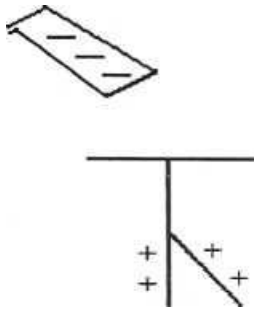
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12. State and explain the observation on the leaf of a positively charged when a negative charge is brought close to cap as shown in figure below. (2mks)



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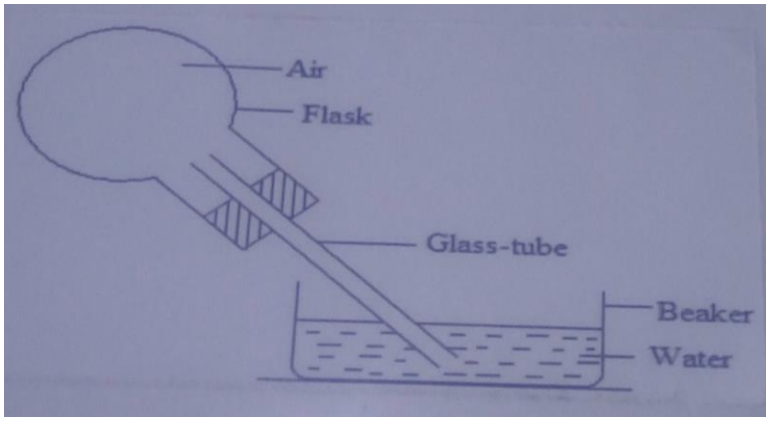
13. Suggest a reason why a person who has lost one leg is provided with crutches. (1mk)

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14. Figure 7 below shows a flash with a glass tube dipped into a beaker containing water at room temperature. The cork fixing the glass tube is tight.



State with reason what would be observed if cold water is poured on to the flash (2mks)

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15. i) Convert 27^0C TO Kelvin (1mk)

ii) What is meant by absolute zero temperature? (1mk)

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16. Figure 8 shows a clinical thermometer which is not graduated

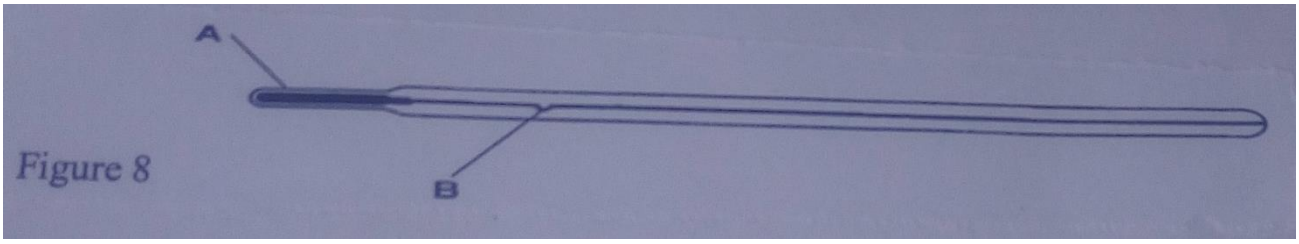


Figure 8

a) Name the parts indicate with letters: A and B (2mks)

A ……

B ……

b) Mark the appropriate scale range in degrees Celsius (2mks)

17. The reading on a mercury barometer at Mombasa is 760mm. Calculate the pressure at Mombasa. (Density of mercury is 1.36×10^{4} Kgm^{-3}) (3mks)

18. Name two advantages which a lead accumulator has over a dry cell (2mks)

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19. A girl observed her in a concave mirror of a focal length 90cm. If the mirror is 70cm away. State two characteristics of the image observed. (2mks)

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20. Why is topping of an accumulator done with distilled water and not sulphuric acid? (1mk)

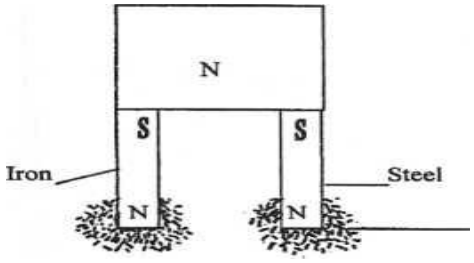
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21. The figure 9 below shows iron and steel rods placed in contact with a magnet.



State with a reason what is observed when this magnet is removed from the rods (2mks)

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22. Why is concave mirrors used as a saloon mirror? (1mk)

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23. An old man warming himself next to a Jiko received heat mostly by radiation. Explain why. (2mks)

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24. You are provided with two iron bars M and N one is magnetized and the other is not. Explain how you would identify the magnetized bar. (2mks)

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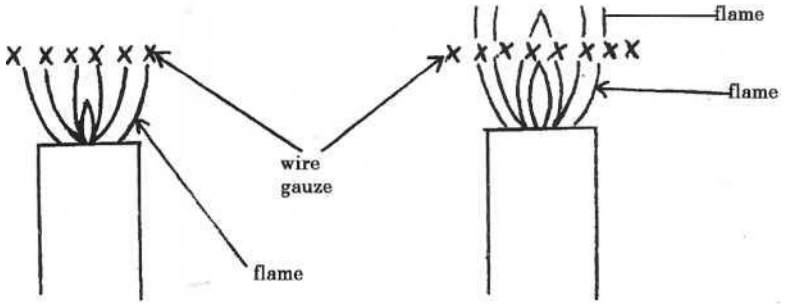
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25. When a Bunsen burner is lit below wire gauze, it is noted that the flame initially burns below the gauze as shown in the figure below. After sometimes the flame burns below as well as shown in the figure below. After sometime the flame burns below as well as above the gauze.



Explain this observation (2mks)

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SECTION B (50MKS)

Answer all questions in this section in the spaces provided

26. a) The water level in a burette is 27cm^3. If 88 drops of water fall from the burette and the average volume of one drop is 0.25cm^3.what is the final water level in the burette? (2mks)

b) In an experiment to determine the density of sand using a density bottle, the following measurements were recorded.

Mass of empty density bottle = 38.3g

Mass of density bottle of water = 64.7g

Mass of density bottle with some sand = 66.6g

Mass of density bottle with sand filled up with water = 84.2g

Take density of water as 1g/cm^3

Use the above data to determine the:

a) Mass of water that completely filled the bottle (1mk)

b) Volume of water that completely filled the bottle (2mks)

c) Volume of the density bottle (1mk)

d) Mass of sand (1mk)

27. a) One of the factors that affect the surface tension of a liquid is the presence of impurities. State the other factor. (1mks)

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b) A solid weighs 20.5N on the surface of the moon. The force of gravity on the moon is $1.86Nkg^{-1}$. Determine the mass of the solid (3mks)

c) State the reason why wick lamps are usually made of cotton (1mk)

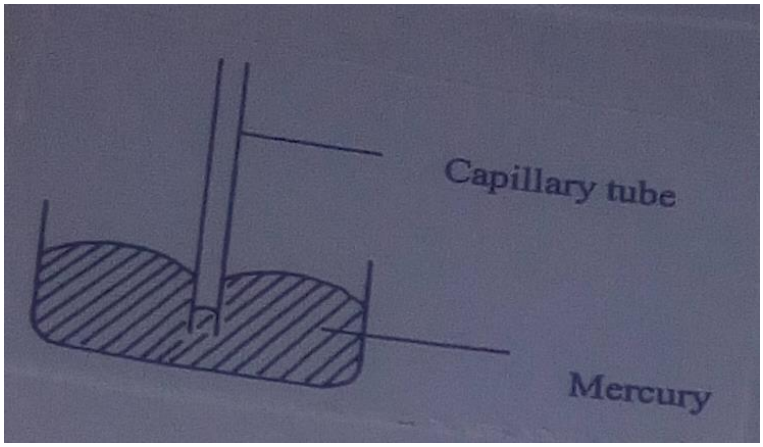
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d) The diagram below shows the behavior of mercury in a capillary tube. Explain the behaviour(1mk)



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28. a) Use simple sketches to show the three states of equilibrium

Name the states (3mks)

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b)Kathurima was carrying a heavy luggage using one hand. It was observed that the leans away from the luggage. Explain this observation. (2mks)

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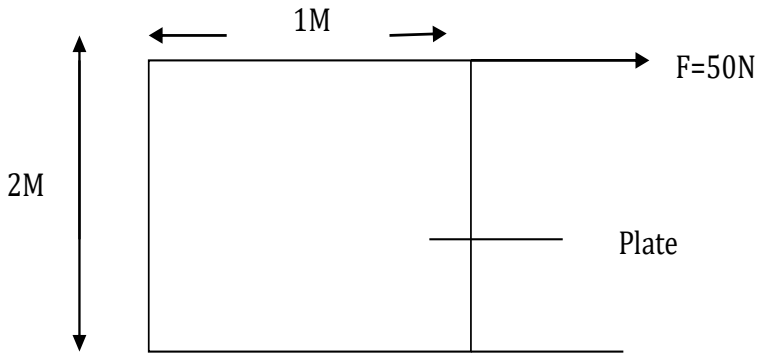
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c) The figure 8 below shows a metal plate 2m long.1m wide and negligible thickness.A horizontal forces of 50 Nis applied at point A just makes the plate tilt.



Calculate the weight of the plate (3mks)

29. a) i) Define the term pressure and state its SI units (1mk)

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ii) It is not possible to use a drinking straw in a vacuum. Explain (1mk)

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b) Explain why brakes fail in hydraulic braking system when air gets into the system. (1mk)

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c) The diagram below shows the principles of the hydraulic car jack

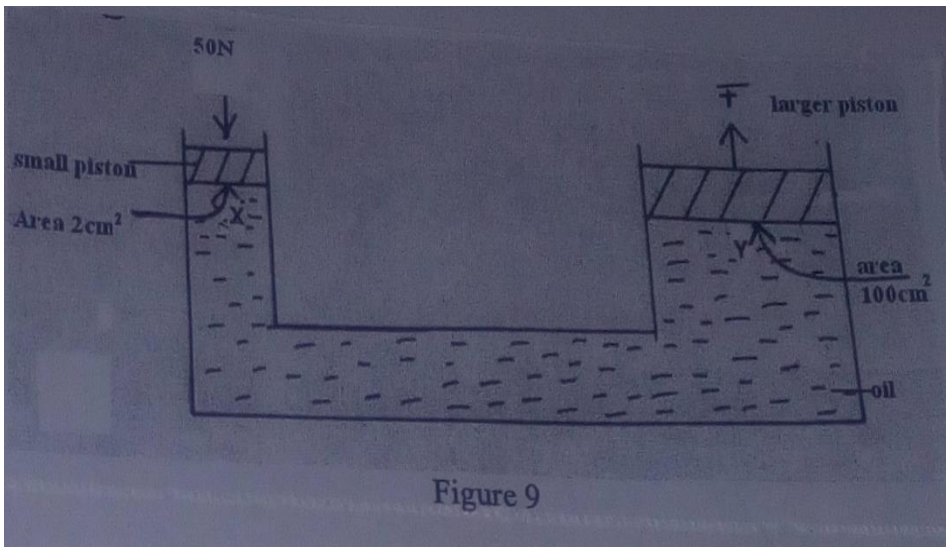


Figure 9

i. If a force of 50N is applied to the smaller piston; calculate the pressure produced in the oil at X (2mks)

ii. Determine the force produced at larger piston Y (2mks)

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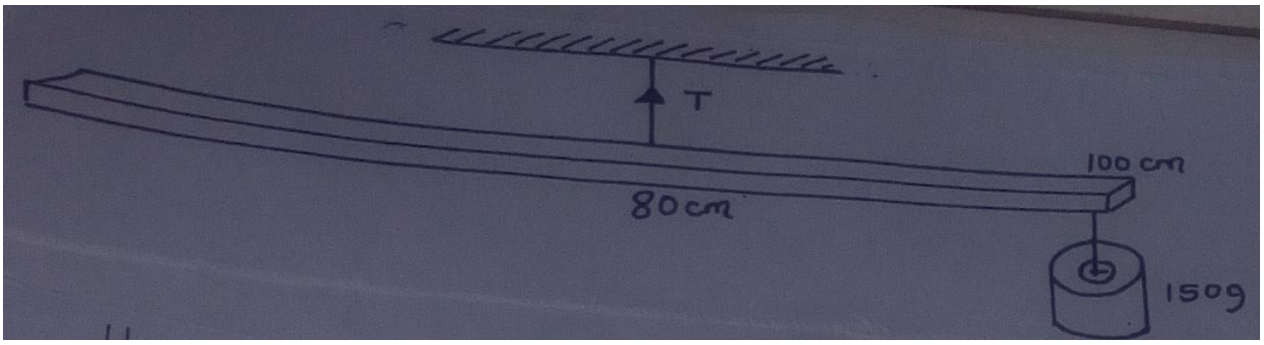
30. a) State the principle of moments (1mk)

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b) A uniform metre rule of uniform width 2.5cm and thickness 0.5cm. Figure 10 below, is suspected at the 80cm mark and kept balanced by hanging a mass of 150g at 100cm mark.



Calculate;

i. The mass of the metre rule (2mks)

ii. The density of the material of the metre rule (2mks)

c) Explain why it is easier to loosen a nut using a spanner that has a longer arm than a shorter arm(2mks)

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d) On what principle does a bottle opener work on? (1mk)

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31. a) State the basic law of magnetism (1mk)

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b) Explain why repulsion between two ends of magnets is the only sure test of polarity. (2mks)

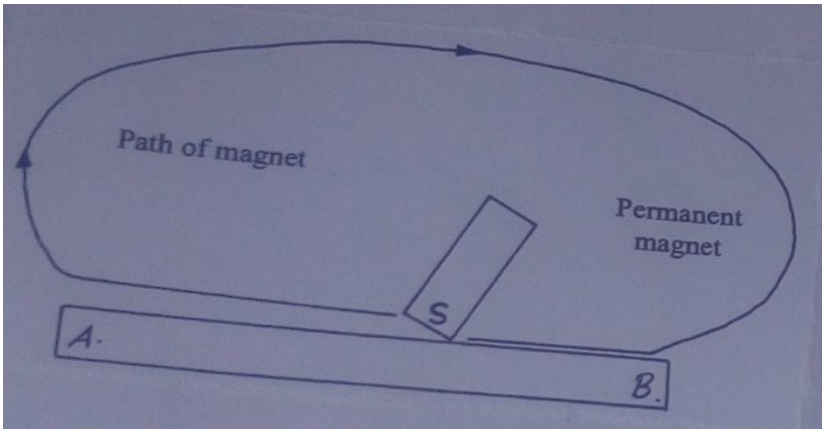
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c) Figure 11 below shows a method of magnetization



Ferromagnetic material is being magnetized, what pole is acquired by the pole at B? (1mk)

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d)You are provided with two iron bars X and Y one is magnetized and the other is not. Explain how you would identify the magnetized bar. (2mks)

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32. i) Other than local action, state another defect of a simple cell and explain how it reduces the current product. (2mks)

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ii)Explain why light in a classroom are wired in parallel and not in series? (2mks)

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iii)State the purpose of Manganese (IV) oxide in a dry cell (1mk)

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iv)A current of 0.5A flows in a circuit. Determinethe quantity of charge that crosses a point in 2 minutes (3mks)

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