BRILLIANT STUDENTS FORM 1 END TERM 1

SERIES 1 EXAMS *(ALL SUBJECTS TESTED)*



BRILLIANT STUDENTS FORM 1 END TERM 1 SERIES 1 EXAMS

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BRILLIANT STUDENTS

FORM 1 END TERM 1 SERIES 1 EXAMS

AGRICULTURE FORM ONE

SECTION A (90 MKS)

1a) State SIX reasons that make agriculture importance to Kenya's economy. 6mks

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b) Agriculture can be viewed as an art, state two reasons to support the view that agriculture is an art. 2mks

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c) Define the term Agriculture. 2mks

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2a)State any FOUR branches of Agriculture

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b)State FOUR factors that determine the system of farming ins a given area. 4mks

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3a)State THREE characteristics of shifting cultivation. 3mks

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b)Differentiate the following terms as used in Agricultural production.
i)Floriculture and pomoculture. 2mks

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ii)Horticulture and Olericulture. 2mks

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iii)Aquaculture and apiculture. 2mks

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iv)Agriculture engineering and Agricultural economics. 2mks

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4a)List down five problems facing Agriculture production. 5mks

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b)State FOUR ways in which Agriculture contributes to industrial development. 2mks

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c)Name five soil constituents. 5mks

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5a)Define the term organic farming. 2miks

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b) Outline three importance of organic farming. 3mks

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6a)State THREE practices that can facilitate achievement of organic farming. 3mks

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b) State FOUR effects of high temperature on crop production. 2mks

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c) State SIX reasons why ranching is regarded as a form of advanced pastoral-nomadism.

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d) Differentiate between Extensive and intensive farming. 2mks

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7a) Define Agroforestry. 2mks

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b) State four advantages of agro foresting 2mks

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c)Why would mixed farming be termed as a method of diversification. 1mk

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8a) List down FOUR advantages of shifting cultivation. 2mks

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b)List down three characteristics of extensive farming. 3mks

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c) From which two Latin words is the term "Agriculture" derived? Give the meaning of each word. 2mks

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9a) State two effects of HIV/AIDS on agriculture. 2mks

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b) State two importance of soil to plants. 2mks

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c) List down six human factors that influence agriculture.

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10a) Give two disadvantages of pastoral nomadism system of farming 2mks

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b) List down three environmental factors that affect crop distribution in Kenya. 2mks

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c) List down four aspects of rainfall that affects agriculture. 4mks

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11a) State two causes of hard pan in a crop yields. 2mks

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b) Name two processes of rock weathering. 2mks

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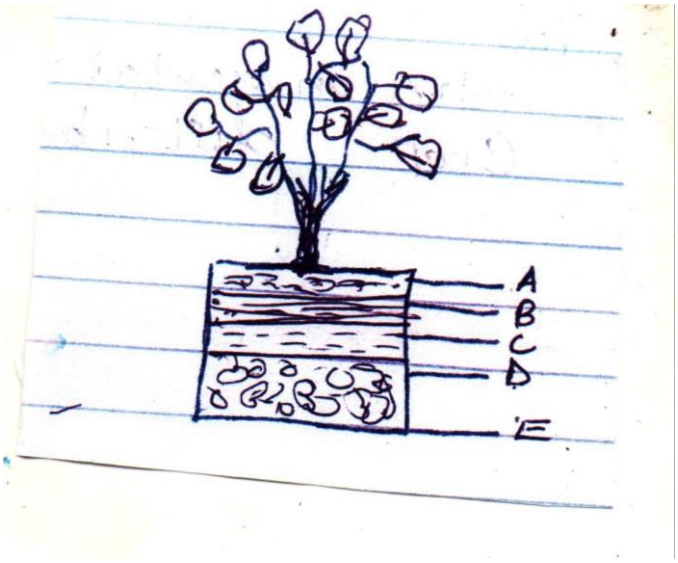
c) List two aspects of light that influence crop growth. 1mk

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SECTION B (10MKS

12a) The above diagram represents a soil profile, Name the following parts.

A ……..

B ……

C ……...

D ……

E ……

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b) Define the term soil profile. 2mks

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b) Which layer is the reflected to as a layer of accumulation. 1mk

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b)List down two characteristics of part 2MKS
B.

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BRILLIANT STUDENTS

FORM 1 END TERM 1 SERIES 1 EXAMS

F1 BIOLOGY

1. Name two major branches of Biology. (2 marks)

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2. What is the name given to the following areas of study: (4 marks)

a. Study of classification

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b. Study of Micro-organisms

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c. Study of living things and their surroundings

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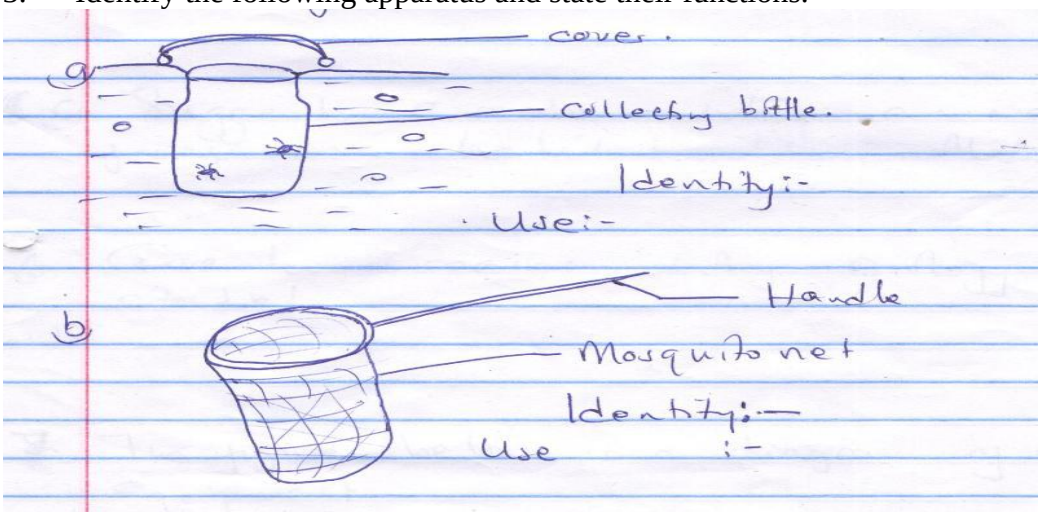
d. Study of the functioning of the body

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3. Identify the following apparatus and state their functions.



4.List down two precautions that should be observed during collection and observation of specimens. (2 marks)

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5. i. What do you understand with the following terms as used in characteristics of living things. (3 marks)

a. Nutrition.

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b. Respiration.

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c. Growth.

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ii. Name three other characteristics of living things other than the one written in 5

(i) above. (3 marks)

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iii. Suggest a reason why animals move from one habitat to another. (1 mark).

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6. Give two reasons why Biology should be studied. (2 marks)

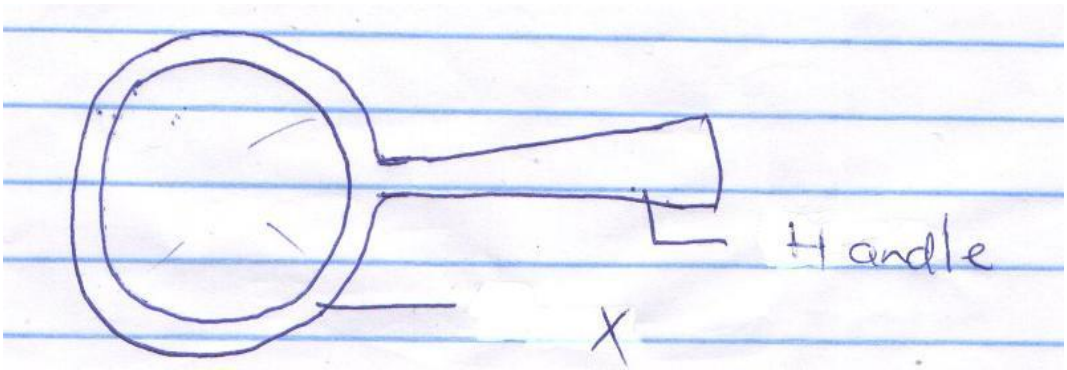
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7. The figure below is a diagram of biological equipment.



a). Name the part labeled X. (1 mark)

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b). Give the use of the part X. (1 mark)

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c). A student was provided with a specimen measuring 2 cm and drew an image measuring 5 cm. Give the formula used to calculate magnification and state the magnification of the image drawn. (2 marks)

8. Suggest a biological tool that is suitable for collecting each of the following organisms. (4 marks)

a). Scorpion. ……

b). Rat. ……..

c). Butterfly. …….

d). Safari ants on a tree trunk. ……..

9. Which characteristic of living organisms is shown by each of the following:- (2 marks)

a). Cheetah chasing a gazelle.

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b). A germinal bean seed.

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10. State the use of the following apparatus. (4 marks)

a. A pit fall trap.

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b. A pair of forceps.

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c. A hand lens.

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d. A sweep net.

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11. Draw a neat diagram showing a pooter. (4 marks)

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12. Name the first 5 TAXA into which living organisms are placed by biologists. (5mrks)

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13. What do you understand by Binomial Nomeclature? (2 marks)

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14. State the importance of classification in biology. (4 marks)

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15. When classifying living organisms' biologist use external features. List down the external features that can be used to classify the following plants and animals into their respective group.

1. Seed producing plants. (2 marks)

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ii. Birds. (2 marks)

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iii. Fish. (2 marks)

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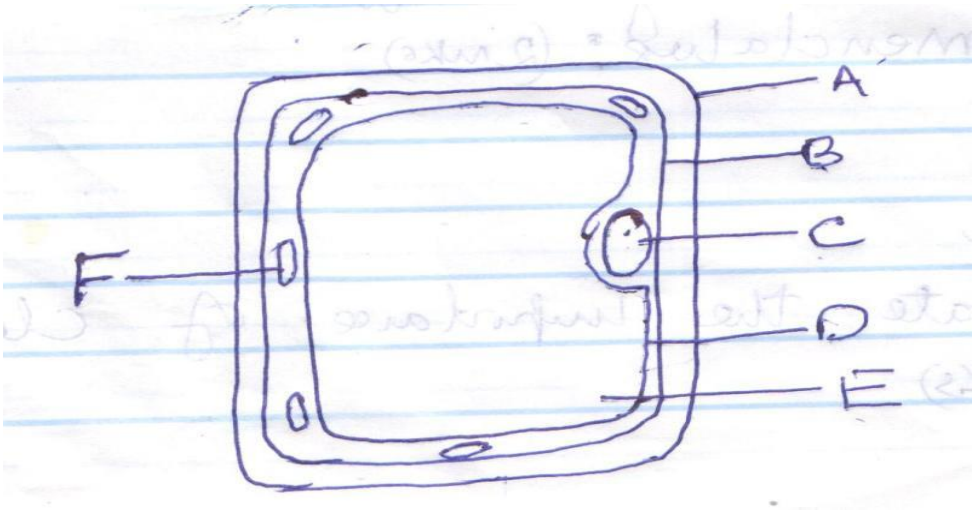
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16. Name the term used to describe the processes through which living organisms are classified. (1 mark)

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17. Name the parts of the plant cell labeled A to F. (6 marks)



18. Name:-

a. Two organisms in the kingdom monera. (2 marks)

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b. Three examples in the kingdom fungi. (3 marks)

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c. Three examples in the kingdom animalia. (3 marks)

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19. State the main characteristic of each of the following kingdoms. (5 marks)

a. Monera.

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b. Protoctista.

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c. Fungi.

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d. Animalia.

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e. Plantae.

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20. What do you understand by the term species? (5 marks)

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BRILLIANT STUDENTS

FORM 1 END TERM 1 SERIES 1 EXAMS

CHEMISTRY FORM 1

TIME : 2 HOURS

INSTRUCTIONS: ANSWER ALL THE QUESTIONS IN THE SPACES PROVIDED

FOR EXAMINER'S USE ONLY

QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
1-23	80	

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1. State three differences between luminous and non luminous flame (3mks)

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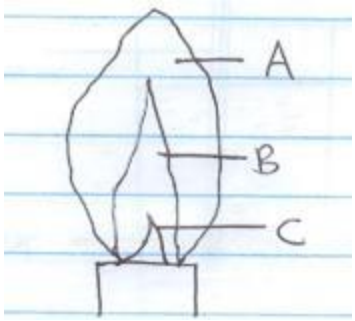
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2. The diagram below shows a non –luminous flame of the Bunsen burner



Name the parts of the flame labelled (3mks)

A ……..

B ……..

C ……

3. (a) What is a drug? (1mk)

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(b) State two long- term effects of drug abuse (2mks)

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4. Putting off flames after use is one of the safety rules in the laboratory. State three other rules

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5. Name four career opportunities open to a chemist? (4mk)

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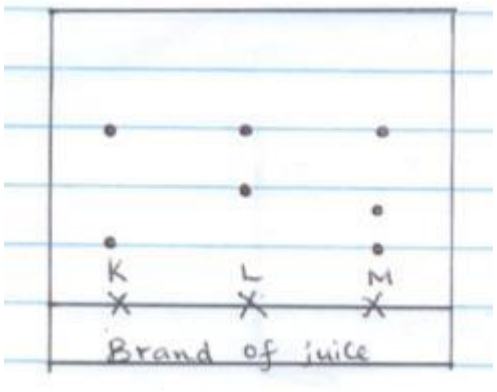
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6. The diagram below represents a paper chromatogram for three brands of juices suspected to contain banned food colourings?

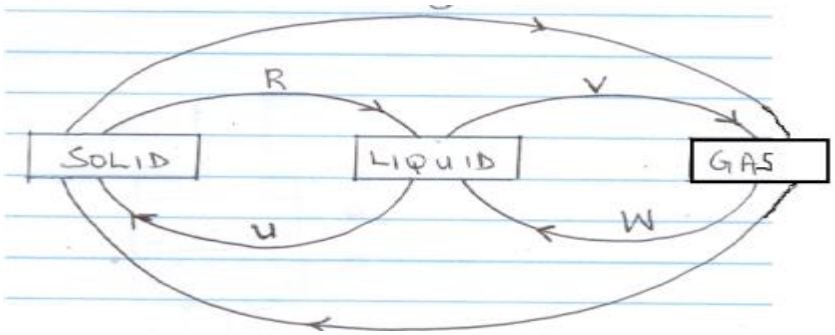


The results showed the presence of banned food colourings L and M only.
On the same diagram:

(a) Circle the spots which show the banned food colouring? (2mks)

(b) Show the solvent front (1mk)

8. The diagram below shows then relationship between the physical state of matter. Study it and answer the questions that follow



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a) Identify the following processes (2 mks)

R ……

V ……..

W ……..

U ……..

b) Name two substances which can undergo the processes represented by S and I (2mks)

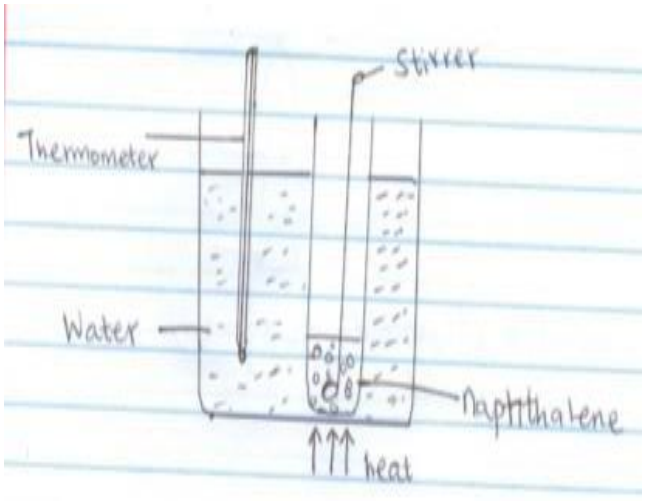
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8. The set up below was used to determine the melting point of naphthalene.



21. State one precaution which should be taken into consideration when carrying out this experiment (1mk)

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22. State the use of the following in this experiment

i.Thermometer (1mk)

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ii.Stirrer (1mk)

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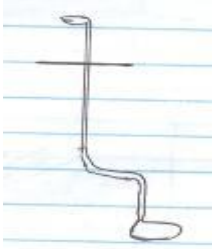
iii.Boiling water (1mk)

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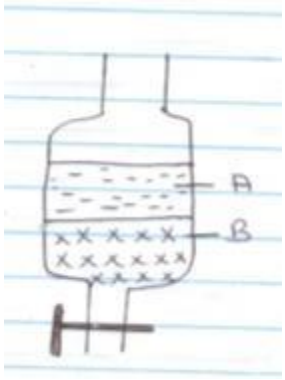
9 (a) The apparatus shown below is commonly used in chemistry laboratory. Give its name and state one use. (2mks)



b) Draw and name any two apparatus for measuring volume (2mks)

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10.) In an experiment to separate a mixture of two liquids A and B, a student set up the apparatus as shown below



a.) Name the apparatus (1mk)

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b.) Which liquid is denser (1mk)

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c.) Which other method can be used to separate the two liquids? (1mk)

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11.) a.) What is a mixture? (1mk)

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(b) State an example for each of the following categories of mixtures. (3mk)

i.Solid-Solid

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ii.Solid-Liquid

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iii.Liquid- Liquid

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12.) Define a conductor (1mk)

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b.) Categorise each of the following substances as either conductor or non conductors of electricity. (2mks)

i.Aluminium ……..

ii.Rubber eraser ……

13.) (a.) State two skills acquired in the study of chemistry (2mk)

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b.) Give two industries where the knowledge of chemistry is applied. (2mk)

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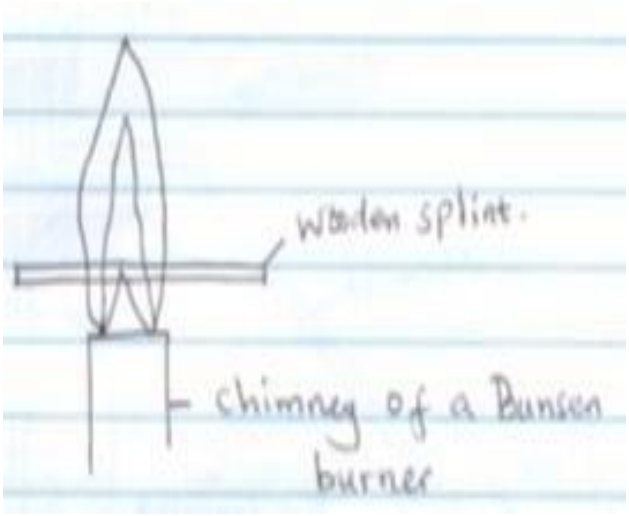
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14.) Study the diagram below and answer the questions that follow



a.) State the condition under which the flame above is produced (1mk)

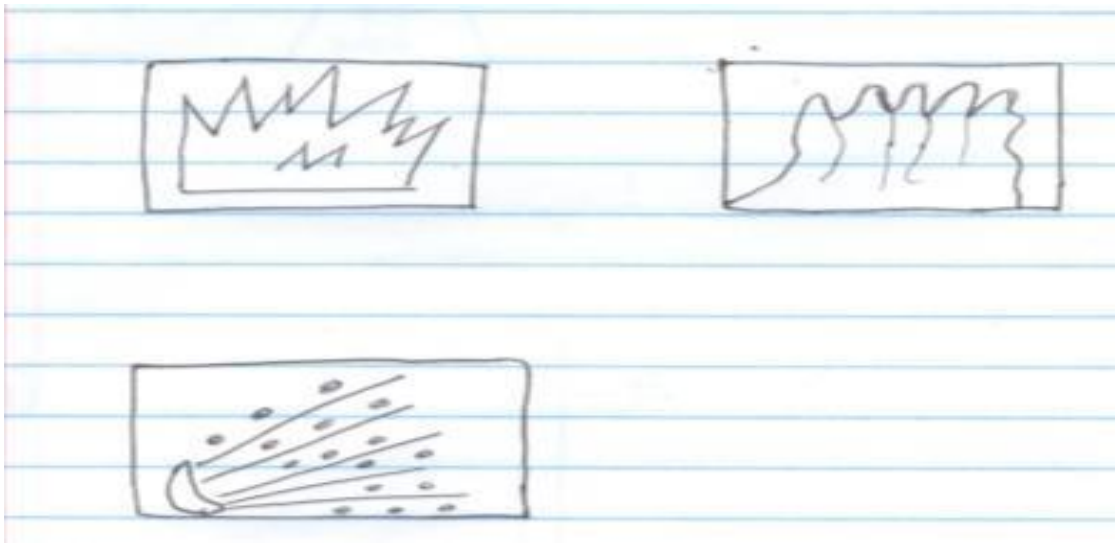
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b.) A wooden splint was introduced into the flame as shown in the diagram. Draw a sketch showing the observation made on the splint and explain the observation made (3mk)

15.) The following symbols had been put on containers which certain chemicals identify the symbol and explain its meaning. (6marks)



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16.) A student wanted to extract oil from cashew nuts. He first crushed the nuts then added propanone a little at a time while still crushing. He allowed it to settle, decanted the resulting solution then exposed it to sunlight for propanone to evaporate.

a.) Why was it necessary to crush the cashew nuts before adding propanone (1mk)

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b.) Why was propanone preferred to water in the experiment (1mk)

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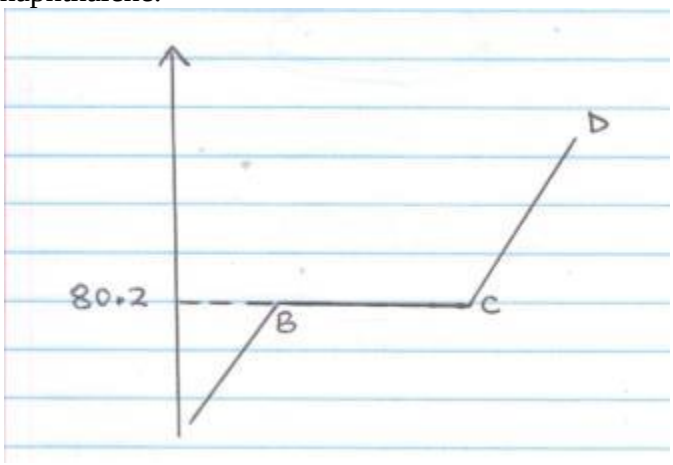
(c) Name the method of extraction described above (1mk)

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17.) Study the diagram below and answer the questions that follow. It shows the heating curve for naphthalene.



a.) Explain the shape of the graph at region BC (2mk)

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b.) State whether the naphthalene used was pure or impure. Give a reason for your answer (2mk)

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c.) Explain the behaviour of naphthalene particles at region AB (2mk)

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18.)

a.) Differentiate between a temporary physical change and a temporary chemical change (1mk)

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b.) State two observations made when copper (ii) sulphate crystals are heated in a test tube (2mk)

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c.) Is heating of cobalt (ii) chloride crystals a chemical change or a physical change (1mk)

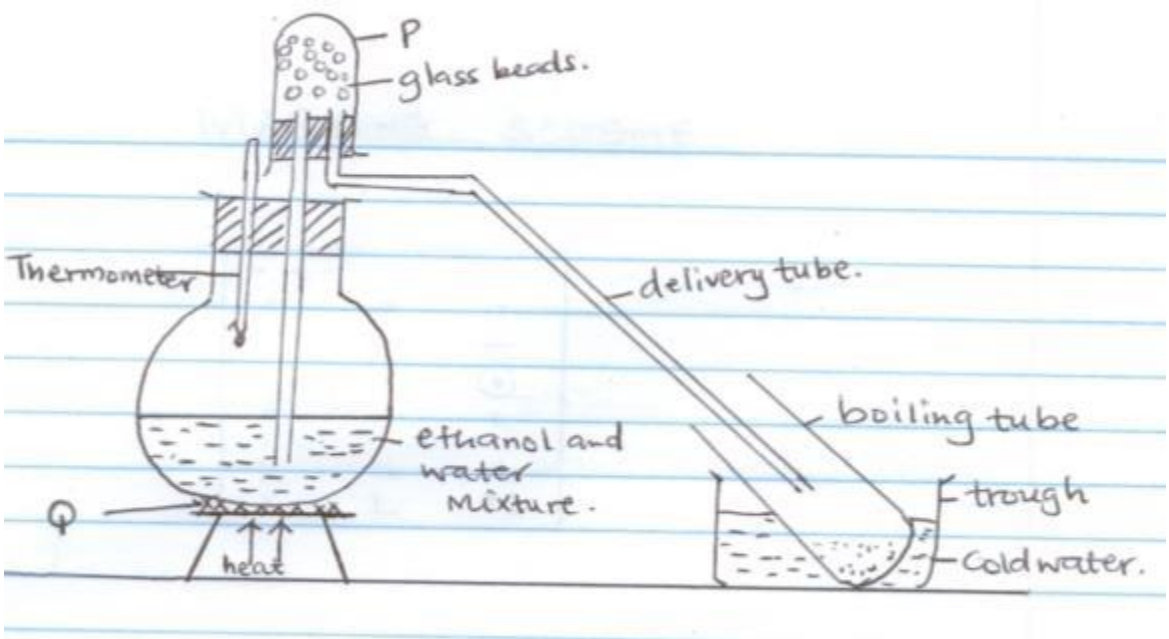
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19.) A student set up the following experiment to carry out fractional distillation



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a.) Name the apparatus labelled

i.P ……. (1mk)

ii.**Q** …….. (1mk)

b.) Write down one error that was made in setting up the apparatus. (1mk)

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c.) What is the role of glass beads in fractional distillation (1mk)

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d.) What other apparatus would you use to improve the role played by the cold water?

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20.) What do you understand by the term over the counter (OTC) drugs (2mk)

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21.) State why the following laboratory rules should be followed

i.Never wear loose clothing in the laboratory (1mk)

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ii.When heating a substance in a test tube or boiling tube never let the open end face you or your neighbour (1mk)

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22.)

a) Define matter (1mk)

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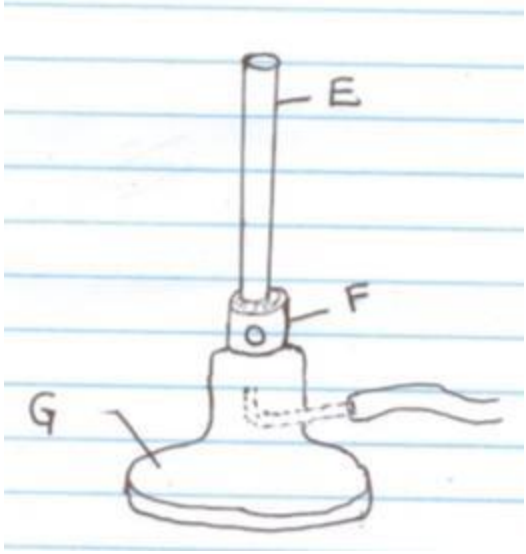
c.) List the states of matter (1mk)

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23.) The diagram below shows a Bunsen burner.



a.) Name the parts labelled

E ……..

F ……

G ……..

b.) What is the role of the part labelled F? (1mk)

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BRILLIANT STUDENTS

FORM 1 END TERM 1 SERIES 1 EXAMS

FORM ONE COMPUTER STUDIES

1. (a) Define a computer (2mks)

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(b) Give TWO reason why a computer is refered to as an electronic device (2mks)

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2. Explain the following terms as used in computer science (6mks)

(i) Data

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(ii) Data processing

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(iii) Information

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3. State four different parts that make up a computer (2 mks)

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4 (a) Explain the term system Unit (1mk)

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(b) List four devices located under the cover of the system unit (2mks)

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5. List any 4 characteristics of the first generation of computers. (4mks)

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b) State four factors used to classify computers (4mks)

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c) State the differences between desktop computers and laptop computers (2mks)

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d) (a) Give three reasons why a mobile phone is regarded to be a computer (3mks)

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(b) Give four example of special – purpose computers (2mks)

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9 (a) Define a microcomputer (1 mk)

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

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10. (a) Identify and explain five areas where computers are used to process data(10 mks)

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11. (a) Define the term ‘ computer laboratory’ (2 mks)

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(b) Give two factors to be considered when preparing a computer laboratory(2 mks)

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12. Why must foods and beverages be kept out of the computer room? (2mks)

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13. State two methods of minimizing dust in a computer laboratory(2mks)

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14. Explain three ways that computer technology could make office more efficient (3mks)

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(b) Outline three reasons why it is important to first shut down the computer before turning it off (3mks)

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15. (a) Briefly explain the term "computer booting". (2mks)

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(c) Give and explain two types of booting (4mks)

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16. (a) What is a computer keyboard (2mks)

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(b) List four types of keys found on a computer keyboard, giving an example of each(4 mks)

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BRILLIANT STUDENTS

FORM 1 END TERM 1 SERIES 1 EXAMS

FORM 1 ENGLISH EXAM

TIME: 2 HRS

1. CLOZE TEST. (10 marks)

Good composition writers use **…….**(1) in a fresh and original manner. **……..**(2) do they do this? They **…….**(3) the simplest and concrete words. They know **……..**(4) the simplest English is the **……**(5). You communicate best if you use simple, everyday words. The **……..**(6) of such words also shows you care about the reader. Write naturally, clearly **……..**(7) sincerely. Don't strain for effect. Don't try to show **……**(8), and try **…….** (9) to sound pompous. If you write naturally, clearly and sincerely, **…….**(10) will discover you are original even without making an effort to be original.

(From: Flying colours in English Composition by KLB)

2. COMPREHESION.

THE CROCODILE AND THE MONKEY (Kamba version)

Once upon a time, Crocodile and Monkey were very good friends. Monkey's house was close to a river. There were many fruit trees on the banks of this river.

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Usually, Monkey would sit on the branches of the fruit trees and chat with his friend, Crocodile, who would be basking on the banks of the river. Their friendship continued for a long time until they decided it was time to introduce their wives to this friendship.

"We have been friends for a long time and you don't even know my house," Crocodile began.

"Neither do you know mine," Monkey replied. "It is easier for you to come to my house than it is for me to visit you since I cannot swim and your house is beyond the waters"

"That is not a problem. I can always carry you on my back," responded Crocodile.

"Let us visit my house first. My wife is a very good cook," Monkey argued.

"No." replied Crocodile. "My wife has had a baby and there is plenty to eat in the house".

"Let us not argue about this," Monkey said. "If we go to my house first, my wife will not be anxious when I tell her I am going across the waters to visit you"

They agreed that they would visit Monkey's house first. Though at first Monkey's wife was afraid of Crocodile, she later realized that Crocodile was very friendly. She did not have problems with her husband visiting him. In fact, she wished she could join him.

Monkey was very excited the following day when he got to the banks of the river and found Crocodile waiting for him. This was going to be Moneky's first trip across the waters and he could not hide his excitement. He jumped onto Crocodile's back and Crocodile swiftly swam towards the deep waters.

When they were in the middle of the river, Crocodile slowed down and began laughing.

"Why are you laughing?" Monkey asked in surprise.

"You fool. Did you think I would take you to my house? I have waited for that heart of yours for a long time. Today I have it".

Immediately Monkey knew he was in deep trouble. He started thinking of a way out of his predicament.

"Poor you, my friend. Why didn't you tell me this earlier?" Monkey calmly asked.

"What do you mean?" asked Crocodile in surprise.

"It is not difficult for me to give you my heart. If you had asked when we were at my house, I would even have given you my wife's heart too," Monkey replied.

Crocodile was confused.

"Then why don't you give it to me now?" Crocodile asked.

"You see, my friend, Monkeys have a tradition of leaving their hearts at home when they are going for a long journey. I therefore left mine on my favourite tree".

Crocodile was even more confused.

"We can go and visit your wife first, and then I will give you my heart when you take me back," Monkey suggested.

"No," cried Crocodile. "I will take you back first. When I have your heart, we can then visit my wife". Quickly, Crocodile headed back to the bank of the river. When they got there, Monkey jumped from Crocodile's back onto his favourite tree. He asked Crocodile to open the mouth wide to receive the heart. Monkey then picked the biggest of the mangoes on the tree and threw it into Crocodile's open mouth. It fell in with a thud, breaking four of Crocodile's teeth. Crocodile was so upset but there was nothing he could do as Monkey jumped from tree to tree insulting him. From that day Monkey and Crocodile have remained enemies.

Questions:

a) How did Crocodile and Monkey become friends? (2 marks)

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b) Why did Monkey insist that they should visit his home first? (2 marks)

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c) Describe the character of the following:

(i) Crocodile (2 marks)

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(ii) Monkey (2 marks)

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(iii) Monkey's wife (2 marks)

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d) If you wanted to narrate this story to your classmates, how would you draw their attention? (2 marks)

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e) Explain the important lesson learnt through this story. (2 marks)

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

(i) Basking

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(ii) predicament

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(iii) bank

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d) List three types of oral narratives. (3 marks)

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3. GRAMMAR: (20 MARKS)

1. Form abstract nouns from the words in brackets to fill in the blank spaces. (4 marks)

(i) We watched in **……**(amaze) as he performed his magic.

(ii) The warrior displayed unusual **……..…..** (brave).

(iii) **…….……..**(jealous) is a vice we should avoid.

(iv) **……..**(diligent) and success go hand in hand.

2. Fill in the blank spaces with appropriate form of nouns in brackets. (3 marks)

d.) The school has bought a lot of **…….……**this term. (equipment)

e.) Our **…….…..**was stolen when we hung it out to dry (bedding)

f.) I have a lot of **……**in my house (furniture)

3. Fill in the gaps in the following sentences with appropriate article. (4 marks)

d.) **……**ear is a hearing organ.

e.) I like playing **……..……**guitar.

f.) To join Form 1 is **……..……**honour

g.) Have you ever been to **……**moon?

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4. Identify the miss pelt words from the following passage and spell them correctly.

I feel confindent that I will find my mother at home. The messanger she had sent to me arrived in good time and brought me the good news. He is resposible person. My mother works with good people. She has no enermies. She works quiet hard and lets me do my home work.

5. Fill in the blanks in the following sentences with the correct alternative from the brackets.

c) The pupils ……..a lot of noise at break time. (make/makes)

d) The chef in this hotel ……..……..very nice food. (cook/cooks)

e) Every child ……..……to go to school. (need/needs)

f) We normally…….…….. A bus to the show. (take/takes)

6. Give another word pronounced the same as the one given. (5 marks)

i) Won ……..

ii) Write ……

iii) You ……..

iv) What ……..

v) Air …….

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7. Underline silent letters in the following words. (5 marks)

iii.Gnaw

iv.Comb

v.Psalm

vi.Hymn

vii.Pneumonia

-END-

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BRILLIANT STUDENTS

FORM 1 END TERM 1 SERIES 1 EXAMS

INSTRUCTIONS
Attempt all questions in the spaces provided;

1. Define Geography (2mks)

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2. (a). List the three branches of Geography (3mks)

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(b). For each of the branches, give two areas studied (6mks)

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3. State the importance of learning geography (4mks)

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4. What is the relationship between geography and;

(a). Mathematics (2mks)

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(b). Biology (2mks)

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5. (a). Define the solar system (2mks)

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(b). Give two scientific theories explaining the origin of the solar system (2mks)

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6. (a). Give two types of earth movement. (2mks)

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(b)(i). Describe the shape of the earth (3mks)

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(ii). State 4 proofs for the spherical shape of the earth. (8mks)

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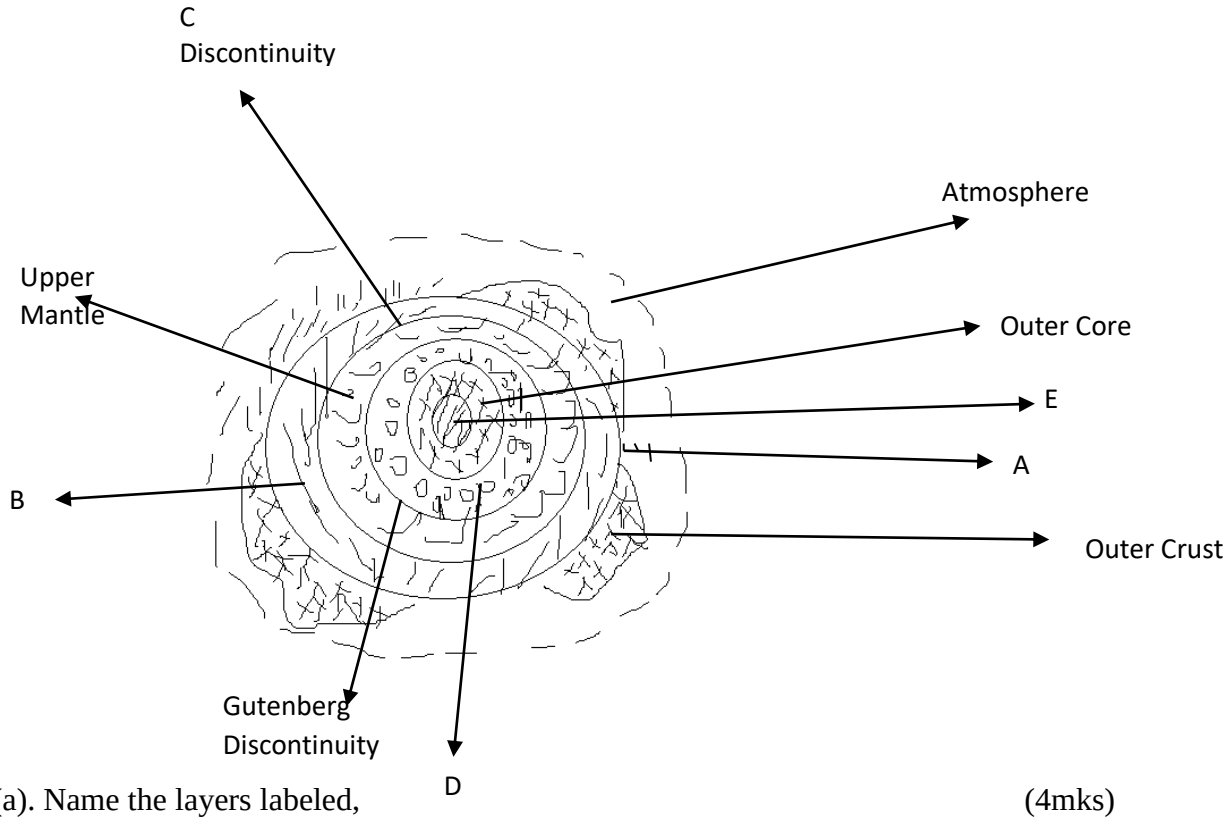
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7. The diagram below shows a cross section of the Earth's structure. Study it and answers the questions that follows;



(a). Name the layers labeled, (4mks)

A_____

B_____

C_____

D_____

(b). State 2 reasons why E is known to be very hot. (4mks)

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(c). State three effects of;

(i). The earth's rotation (3mks)

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(ii). The earth's revolution (3mks)

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8. (a) Define weather (2mks)

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(b). (i) A part from temperature and rainfall give four other elements of weather (4mks)

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(ii). Identify three factors which influence temperature (3mks)

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(iii). With the help of well labeled diagram, describe how relief rainfall is formed (8mks)

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C(i). What is weather station? (2mks)

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(ii). State three factors considered when siting a weather station (2mks)

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9. (a) (i). What is a steveneson screen (2mks)

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(ii). Give two weather instruments kept in a stevenson screen (2mks)

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(b). Give reason why the stevenson screen has the following characteristics

(i) Painted white (1mk)

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(ii). Curved sides (1mk)

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(iii). Double roofing (1mk)

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(iv). Placed 121cm above the ground level. (1mk)

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BRILLIANT STUDENTS

FORM 1 END TERM 1 SERIES 1 EXAMS

HISTORY AND GOVERMENT

SECTION A (40MKS)
ANSWER ALL QUESTIONS

1. Define the term History. (1mk

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2. State two periods in History. (2mks

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3. State two limitations of oral tradition as a source of History. (2mks

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4. Give two forms of government. (2mks

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5. Outline four characteristics of government. (4mks

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6. Name two sources of information used in oral tradition. (2mks

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7. State three archaeological sites in Kenya. (3mks

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8. Identify two Sub species of Homo sapiens. (3mks

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9. State and Explain two theories that explain the origin of man. (4mks

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10. Name the last three stages of evolution. (3mks

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11. State two main types of Acheulian tools. (2mks

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12. List four physical characteristics of Homo Erectus. (4mks

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13. Name the two rivers that are associated with early agriculture in Mesopotamia. (2mks

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14. Name the first animal to be domesticated by man. (1mk

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15. Identify two indigenous crops of most third world countries. (2mks

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16. Give two characteristics of Agrarian Revolution. (2mks

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17. Define the term Agrarian Revolution. (1mk

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SECTION B (60MKS)

18. State five advantages of using oral tradition as a source of information on History and Government.(5mks

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19. List five dating methods used by archaeologist (5mks

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20. Give five importance of studying History and Government.(5mks

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21. Outline five reasons why Africa is referred to us cradle of human kind. (5mks

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22. Describe the culture of early man during the new stone age period. (10mks

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23. Explain five ways by which early human beings benefited from the discovery of fire. (10mks

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24. What were the results of development of early agriculture in Mesopotamia. (10mks

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25. Outline five factors that led to Agrarian Revolution in America during the Agrarian Revolution. (10mks

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FORM 1 END TERM 1 SERIES 1 EXAMS

441/1

FORM ONE

HOMESCIENCE

TIME: 2 HOURS

1. Name five parts of the dermis. (2½ marks)

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2. List three common skin infections that affect humans. (1½ mark)

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3. What is the importance of Homescience to the individual? (3 marks)

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4. What is personal hygiene? (2 marks)

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5. List four items referred to as accessories as far as good grooming is concerned. (4 marks)

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6. Name three types of skin. (3 marks)

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7. Identify three ways of preventing skin diseases. (3 marks)

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8. State four functions of the human skin. (4 marks)

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9. Give four points to consider when selecting clothes for a short plump figure. (4 marks)

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10. Mention four dangers that may occur due to misuse of cosmetics. (4 marks)

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11. Two reasons why an adolescent should practice proper hygiene. (2 marks)

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12. State the differences between burns and scalds. (3 marks)

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13. Suggest four ways of preventing cuts at home. (4 marks)

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SECTION B (20 MARKS)

14. (a) Describe how to care for the feet and toes. (10 marks)

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(b) Explain how to launder your white cotton handkerchief. (10 marks)

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SECTION C

15. (a) Name the three types of modern houses. (3 marks)

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(b) Name the different types of kitchen plans. (4 marks)

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(c) Suggest four points to consider when renting a house. (4 marks)

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(d) Give four disadvantages of using grass as roofing material. (4 marks)

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(e) List five cleaning equipment used for cleaning the house. (5 marks)

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16. (a) Highlight the reasons for cleaning the house. (8 marks)

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(b) List down five improvised cleaning agents. (5 marks)

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(c) Define the following types of cleaning.

(i) Daily cleaning (3 marks)

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(ii) Weekly cleaning (3 marks)

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(d) What is dirt (1 mark)

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JINA: ……..……

SHULE: ……

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

BRILLIANT STUDENTS

FORM 1 END TERM 1 SERIES 1 EXAMS

MTIHANI WA MWISHO WA MUHULA WA KWANZA

KISWAHILI KIDATO CHA 1

UFAHAMU

Runinga na Ulimwengu wa Leo

Siku moja nilikuwa hotelini kisiwani Lamu, au amu (kama wanavyokiita wenyeji) na rafiki yangu tukila wali na pweza. Aliingia mzee mmoja aliyefahamika kisiwani kwa ugwiji wake wa masuala ya lugha ya Kiswahili. Nilijiwa na hamu ya kumwuliza mzee huyo aliyepotea na kubobea katika Kiswahili, jinsi neno 'runinga' lilivyozuka.

"Ahh, hilo" alishangaa kwa sauti kabla ya kuendelea, kijana kaa kitako nikweleze. Mswahili wa kwanza alipokiangalia kile chombo alishangaa. Kilikuwa kinaeleza na kuweka wazi mbele ya macho yake habari za ajabu. Hizi zilikotokea. Ni kitu kama uvumi hivi, huku kwetu tunasema 'rununu' basi ule si wa kusikia bali ni wa kuona; yaani kwa macho ambayo zamani yaliitwa maninga. Basi ikawa rununu ya maninga; mwishowe runinga' alieleza mzee huyo kwa ufasaha mkubwa.

Kila ninapokiwaziza chombo kinachojulikana kama runinga au televisheni, kisa kile hufyatuka akilini na sura ya mzee huyo kunijia. Tangu kuvumbuliwa kwake mwanzo mwanzo wa karne ya ishirini, runinga imekuwa mojawapo wa vyanzo vikuu vya maarifa, taarifa, elimu na burudani kwa watazamaji. Kutokana na chombo hiki tunapata picha za matendo yanayotendeka kwenye maeneo yaliyoko mbali na tuishiko. Kinatufichulia majanga yanayowafika wenzetu kutokana na mbaa ya vita au njaa; huonyesha harakati za wanasayansi za kujaribu kuvumbua mambo mapya kwenye anga zetu. Aidha runinga hutusawiria matukio au ya kufurahisha. Runinga ni nyenzo muhimu ya kutuelimisha na hata kutuburudisha kutokana na vipindi vyake mbalimbali.

Vipindi vya runinga huwa ni ishara za elektroniki ambazo hutumwa kama mawimbi ya redio na vyombo vinavyojulikana kama setilaiti au kwa matumizi ya kebo ambazo hupitishwa ardhini. Setilaiti ina uwezo wa kubadilisha ishara hizo na kuwa sauti na picha zinazoambatana na sauti hizo.

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Je, ushawahi kuwazia ni mambo yepi yanatokea katika studio za runinga hususan wakati wa kusomwa kwa taarifa ya habari? Aghalabu wakati wa kusomwa kwa taarifa ya habari ni sehemu ndogo sana ya studio inayoonekana. Asilimia kubwa huwa mefichwa pamoja na mashine za kila aina ambazo huhusika na uwasilishaji wa habari hizo. Aidha wahudumu wengine wanaohusika na majukumu mbalimbali kama udhibiti wa mwangaza, uekezaji wa wanaosoma kuhusu muda uliopo, mdhibiti wa kamera zionyeshazo picha mbalimbali anayekuza picha kuhakikisha picha zimeonekana vyema. Wapo wengine wanaoshughulika na majukumu anuai ambao hawaonyeshwi.

Mbele ya msomaji wa taarifa hizo huwa kuna televisheni ndogo ambayo haionekani na ambayo humwonyesha picha zinazoonyeshwa. Aghalabu hatuwaoni wasomaji wengi wa taarifa za habari wakisoma habari zao kutoka maandishi wazi. Hali hii inatokana na kuwepo kwa kielekezi-runinga ambacho anakitumia, Msomaji huyu husoma taarifa zake kutokana na maandishi yanayoonekana kwenye mulishi au kiwambo cha kielezi hicho. Maneno hayo hukuzwa kwa njia mbili mbele ya lensi za kamera na kuweza kusomeka vizuri. Yupo opareta ambaye kazi yake kuu ni kuhakikisha kuwa amedhibiti kasi ya maneno yanayoonekana kwenye kielekezi-runinga hicho. Pia msomaji wake akitumia kifaa maalum. Hata hivyo, msomaji huwa na nakala nyingine ya habari iliyoandikwa anayoweza kuisoma iwapo pana hitilafu fulani ya kielekezi-runinga.

Wataalamu wa chumba kikuu cha kuyadhibiti matangazo hutumia vifaa maalumu vya sauti kuwakumbusha watangazaji kuhusu vipindi vya kupumzika kwa ajili ya matangazo ya biashara au mabadiliko yoyote katika mpangilio wa kipindi Fulani. Huwapo pia wataalamu wanaohakikisha kuwa picha zinazopatikana kwenye runinga ni sahihi na zinakubalika. Kutokana na majukumu mbalimbali ya wanaohusika, watazamaji wanapata picha nzuri na sauti zinazoafiki picha hizo. Hii ni siri mojawapo ya siri nyingi ambazo zimefubwatwa na uvumbuvi wa kisayansi.

Kama watazamaji wa runinga labda tunaishia kukubaliana na Yule mzee wa Lamu kuwa chombo hiki kina maajabu ya macho. Maajabu hayo yanatuelimisha, kutujuza, kutukumbusha na kutufanya tushirikiane na wenzetu walio mbali sana katika matukio yetu. Masafa yaliyoko kati yao yanafupishwa kwa kuwa wanatujia kwenye vyumba vyetu kama nasi tunavyofanya huko kwao.

MASWALI

i) Ni nini chanzo cha neno ‘runinga’? (al 2)

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ii) Taja faida nne za runinga (al 4)

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iii) Tunaweza kutazama picha za runinga kutoka kwenye vituo mbalimbali vya televisheni. Ni njia gani ipi inayotuwezesha kutazama vipindi vya runinga? (al 2)

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iv) Wakati wa kusomwa kwa taarifa za habari kuna wataalamu mbalimbali wanaohusika. Taja watatu (al 3)

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v) Je, kwa nini mara nyingi msomaji wa habari haonekani kusoma habari bali huongea akiangalia watazamaji tu? (al 2)

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vi) Taja michezo miwili ya kimataifa iliyo maarufu zaidi inayotangazwa moja kwa moja kupitia runinga kote ulimwenguni. (al 2)

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MATUMIZI YA LUGHA

1. Taja ala nne za kutamkia sauti, mbili tuli na mbili sogezi (al 4)

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2. Ni ipi tofauti kuu kati ya konsonanti na irabu (al 2)

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3. Taja sauti mbili mbili ambazo ni: (al 3)

a) Vipasuo

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b) Nazali

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c) Viyeyusho

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4. a) Maktaba ni nini? (al 1)

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b) Taja aina mbili za maktaba (al 2)

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5. Andika sentensi hizi kwa wingi (al 2)

a) Kifaru huyu ni mkubwa

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b) Kijiti kikubwa kilitumiwa kumuua nyoka.

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6. Weka shadda katika neno barabara kwa jinsi mbili na uonyeshe tofauti kimaana. (al 2)

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7. Eleza maana ya kiimbo. (al 2)

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8. Andika maneno mawili mawili yenye silabi zenye miundo hii: (al 2)

e.) KKI

f.) KKKI

9. Taja sifa zozote nne za lugha (al 4)

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10. Kanusha sentensi hizi

a) Amekuwa akisoma kwa miaka miwili (al 1)

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b) Tuliimba na kuvuna mahindi (al 1)

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c) Amekuja (al 1)

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11. Kamilisha methali hizi

a) _____si ndo ndo ndo (al 1)

b) Mkono mtupu _____ (al 1)

c) _____mpende (al 1)

12. Taja aina mbili za viambishi (al 2)

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13. Sahihisha sentensi hizi (al 3)

a) Kitabu hii yangu nilinunuliwa na mama.

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b) Kijana mwenye alisoma vizuri alituzwa.

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c) Mtoto ambaye aliyepotea ni wa Kamau.

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14. Kamusi humsaidia mwanafunzi kwa njia gani tatu? (al 3)

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ISIMU JAMII

15. a) Eleza maana ya Isimu Jamii (al 2)

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b)Taja mambo manne ambayo sajili lugha hutegemea. (al 4)

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FASIHI (Alama 15)

23. Taja na ufafanue aina mbili kuu za fasihi. (al 4)

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24. Fafanua dhima/umuhimu wa fasihi (al 7)

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25. Taja tanzu nne za fasihi andishi (al 4)

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BRILLIANT STUDENTS

FORM 1 END TERM 1 SERIES 1 EXAMS

Kenya Certificate of Secondary Exams
FORM ONE MATHEMATICS
END TERM EXAMS

SECTION 1 ANSWER ALL THE QUESTIONS (50MARKS)

1. Without using tables or calculator evaluate (3mks)

$$\frac{-12\div(-3)\ \times 4\ -(-20)}{-6\times 6\div 3+(-6)}$$

2. Three cups can hold 400ml, 450ml and 560ml of milk respectively. Find the capacity of the largest glass that can be used to fill each of the cups in full measure. (3mks

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3. A number n is such that when it is divided by 27, 30 or 45 the remainder is 3. Find the smallest possible value of n. (4mks)

4. Find the greatest number which when divided by 181 and 236 leave a remainder of five in each case. (3mks

5. The G,C.D of two numbers is 7 and their L.C.M is 140. If one of the number is 20, find the other number. (3mks)

6. (a) List down all prime number between 1 and 10 in descending order to form a number . (2mks)

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(b) Find the total value of digit 5 in the number formed in (a) above (2mks)

7. Evaluate

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

8. Evaluate without using tables or calculator. (4mks)

$$\sqrt{\frac{0.0625 \; x \; 2.56}{0.25 \; x \; 0.08 \; x \; 0.5}}$$

9. Write the following fraction in descending order (2mks)

$\frac{5}{9}, \frac{8}{15}, \frac{4}{7}, \frac{7}{13}$

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10. Which of the following numbers are divisible by the numbers in bracket, give a reason in each case.

(i) 270, 430, 510 (3) (2mks)

Reason _____

(ii) 9904, 44344, 348544 (8) (2mks)

Reason_____

11. Express the recurring decimals below as fraction (4mks)

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0.32

12. Write the following numbers in word. (2mks)

(a) 543,654,444

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(b) 75, 356, 765, 003

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13. Write the following numbers in figures. Nine hundred billion, two hundred and one million , ninety thousands ,four hundred and ten . (3mks)

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14. To the nearest number indicated in brackets, round off each of the following numbers. (3mks)
    (a) 607, 890, 567 (1 000)
    (b) 65, 745, 344 (10 000)
    (c) 146, 789 (100 000)

15. Express $\frac{5}{7} + \frac{7}{12}$ as a decimal. Correct your answer to 3 decimal places. (3mks)

16. Write down the value of (3mks)
    (a) $(-3) \times (-5)$
    (b) $(+8) \times (-5)$
    (c) $(-40) \div (+8)$

SECTION 2 ANSWER ALL THE QUESTIONS (5O MARKS)

17. (a) Work out
    6789 ÷ 13 (3mks)

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(b) Determine the
(a) Quotient (1mk)
(b) Remainder (1mk)

(c) Prove that the divided is 6789 in the work out above. (3mks)

(d) Convert the following into improper fraction. (2mks)
$3\frac{4}{7}$

18. (a) Express the following numbers as product of prime numbers. (leave your answer in power form) (6mks)
(i) 1008
(ii) 1080
(iii) 588

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(b) Using the answer above
Find
(i) The L.C.M of the numbers leaving your answer in power form. (2mks)

(ii) The G.C.D of the numbers leaving your answer in power form. (2mks)

19. (a) Three friends, Betty, Ann tabby and Tracy decide to buy a car. Betty pays a quarter of the cost , Ann tabby pays a third of the cost and Tracy pays the rest. If Tracy pays sh150 000.
Calculate ;
(i) The cost of the car. (4mks)

(ii) How much Betty pays (2mks)

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(b) Brian uses $\frac{2}{3}$ of his land grazing, $\frac{1}{3}$ of the remainder for planting potatoes and $\frac{1}{10}$ of what is left for other farming activities. If 6.3 hectares of land is unused, determine the size of the land he owns. (4mks)

20. (a) A minibus had 25 passengers at the beginning of a journey. Fourteen passengers alighted at the first stop while 11 boarded. Eight of those who boarded at the first stop alighted at the second stop and 14 got in. The minibus did not stop again up to the final destination. The charges from the starting point were sh60 p to first stop, sh80 up to the second stop and sh95 up to the final destination.

(i) How many passengers alighted at the final destination. (2mks

(ii) How many passeng

(iii) ers were ferried by the minibus through the journey? (2mks)

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(iii) How much money was collected during the trip? (4mks)

(b) A television dealer sold TV set for a total of sh.388 500 at sh18 500 per set.
How many TV set were sold? (2mks)

21. Perform the following operations using a number line and state the answer.
(a) $(-4) + (-2)$ (2mks)

(b) $(-7) - (-8)$ (2mks)

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(c) $(+5) - (-2)$ (2mks)

(d) $(+1) + (+4)$ (2mks)

(e) $(+5) - (+7)$ (2mks)

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BRILLIANT STUDENTS

FORM 1 END TERM 1 SERIES 1 EXAMS

physics

form 1

TERM 1

Physics 2 HOURS

INSTRUCTIONS TO CANDIDATES

I. Answer all questions.

II. All answers should be written in the space provided in this booklet.

III. Show all you working

1. Explain briefly the first aid measure that should be taken incase of(2mk)

a) Cut

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b) Poisoning

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2. Define physics.(2mk)

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3. State any five branches of physics(5mk)

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4. State any five career opportunity in physics (5mk)

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5. State any five laboratory safety rules (5mk)

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6. Name any 4 items contained in the first Aid kit found in the laboratory(4mk)

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7. Briefly explain how physics is related to biology(2mk)

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8. State any three effects of a force (3mk)

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9. Describe the method you would use to measure the cicrumfrence of a cylinder using a thread and a meter rule(4mk)

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10. A sphere of diameter 3.0 cm is mounted into a thin uniform wire of diameter 0.2mm calculate the length of the wire in meters(4mk)

11. State any three differences between mass and weight(3mk)

mass	weight

12. The mass of $25cm^3$ of ivory was found to be 0.045kg. Calaculate the density of ivory in SI units (3mk)

13. 300 cm^3 of fresh water of density 1000kg/m^3 is mixed with 100cm^3 of sea water density 1030kg/m^3.calculate the density of mixture (4mk)

14. Explain how you would measure the volume of irregularly shaped object using the displacement method. (3mk)

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15. Distinguish between a fundamental and derived quantity giving an example of each (4mk)

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16. Define force and state its SI unit (2mk)

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17. State any 4 types of force (4mk)

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18. Distinguish between a scalar and vector quantity giving an example of each (4mk)

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19. State any 3 applications of capillary action (3mk)

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20. State any two factors affecting the surface tension (2mk)

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21. A man has a mass of 70kg. Calculate

a) His weight on earth where the gravitational strength is 10 N/kg (2mk)

b) His weight on moon where the gravitational strength is 1.7 N/kg (2mk)

22. Explain briefly why water wets the glass while mercury does not(2mk)

23. Complete the table below(7mk)

	Fundermental quality	SI UNIT	SYMBOL
1		meter	M
2	Mass		kg
3	Time		
4			A
5		Kelvin	K

24. Differentiate between cohesive and adhesive forces (2mk)

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25. A body weighs 400N in water. If the up thrust force is 20N.calculate its weight in air (2mk)

26. Explain briefly why a razor blade floats in water and when soap solution is carefully added to the water it sinks (3mk)

27. Explain the following behavior of molecules.

a) When it is raining it is advisable not to touch a canvas tent from inside (2mk)

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b) Water rises up in harrow tubes but Mercury which is also a liquid falls in a narrow tubes to level below the outside surface ?(2mk)

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28. A eureka can of mass 100g and cross-sectional area 100cm^2 is filled with water of density 1g/cm^3.A piece of metal of mass 20g and density 8g/cm^3 is lowered carefully into the can as shown 10cm

Calculate

a) The total mass of water and Eureka can before the metal was lowered (3mk)

b) The volume of water that overflowed (2mk)

c) The final mass Eureka can and its content (3mk)

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