

# **BRILLIANT STUDENTS FORM 1 END TERM 1**

## **SERIES 2 EXAMS** (ALL SUBJECTS TESTED)



## **BRILLIANT STUDENTS FORM 1 END TERM 1 SERIES 2 EXAMS**

*Prefer Calling Sir Obiero Amos*

*@ 0706 851 439*

*for Marking Schemes*

**N/B** In Response to the Huge Costs Associated in Coming Up with Such/Similar Resources **Regularly**, We inform us All, **MARKING SCHEMES ARE NOT FREE OF CHARGE**. However Similar **QUESTIONS**, Inform of **soft Copies**, are Absolutely **FREE** to **Anybody/Everybody**. Hence **NOT FOR SALE**

by **Amobi Group of Examiners**.

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# 0706 851 439



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# BRILLIANT STUDENTS

## FORM 1 END TERM 1 SERIES 2 EXAMS

AGRICULTURE

FORM 1

TIME: 2HRS

END OF TERM ONE EXAMINATION

**INSTRUCTIONS**

- ✓ This paper consist of three sections A, B and C
- ✓ Candidate to answer **all** questions in section **A** and **B** and any other **two** questions only in section **C**

**CANDIDATE SCORE**

	QUESTIONS	MINIMUM SCORE	CANDIDATES SCORE
A	1-16	50	
B	17-19	30	
C	20	10	
	21	10	
	22	10	
	<b>TOTAL</b>	<b>100</b>	

**SECTION A (50MKS)**

*Answer all questions in this section on spaces provided.*

1. What is Agriculture? (1mk)

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2. Give the meaning of the following Agricultural terms (4mks)

i. Apiculture

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ii. Aquaculture

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iii. Nomadic –pastoralism

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iv. Plantation

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3. Give three reasons why Agriculture is Art (3mks)

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4. Differentiate between the following Horticulture terms. (2mks)

Pomoculture and Olericulture

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5. Name five branches of Agriculture (5mks)

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6. a) Give the meaning of mixed farming? (1mk)

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b) State three importance of mixed farming (3mks)

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7. State three characteristics of small scale farming (3mks)

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8. Name four methods of farming? (4mks)

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9. State four advantages of large scale farming (4mks)

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10. State three importance of organic farming? (3mks)

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11. Name four human factors which influence Agriculture (4mks)

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12. State two effects of HIV and AIDS on Agriculture (2mks)

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13. State three ways which Government policy influence Agriculture (3mks)

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14. Name four Biotic factors which influences Agriculture (2mks)

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15. State three importance of soil to crops (3mks)

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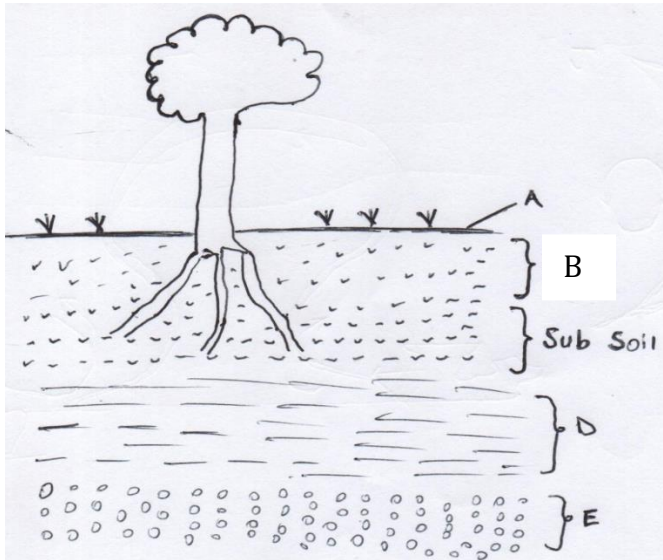
16. Name three aspect of rainfall (3mks)

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**SECTION B**

*Answer all questions on the spaces provided*

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



a) Identify the type of soil formation shown above (1mk)

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b) Name the layers A, B, D and E (4mks)

Layer A .....

Layer B .....

Layer D .....

Layer E .....

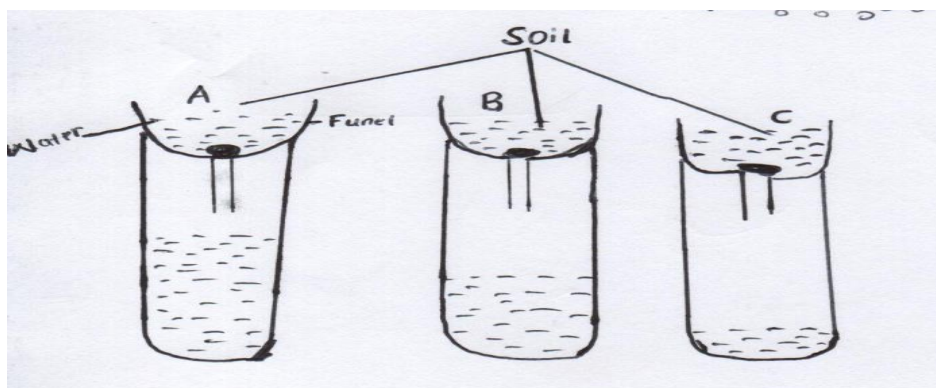
c) State four characteristics of layer B (4mks)

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d) Name four types of soil structures (4mks)

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18. Below is an experiment to investigate a certain aspect of soil. Study the experiment and answer questions that follows.



The amount of water drained is as shown above

a) State the aspects of soil being investigated (1mk)

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.....  
.....

b) Name the soil type A, B and C (3mks)

Soil type A .....

Soil type B .....

Soil type C .....

c) Which of the soil type is most suitable for growing rice (1mk)

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d) Which of soil type is good for growing maize (1mk)

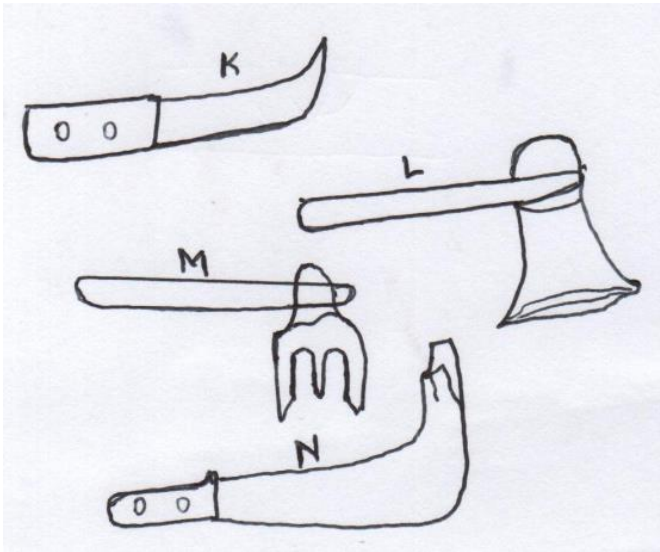
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e) State four characteristics of soil type A (4mks)

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19. Below are farm tools and equipment used in the farm



a) Identify the tools shown above (2mks)

Tool K .....

Tool M .....

Tool L .....

Tool M .....

b) State the use of tool K and L (2mks)

Tool K .....

Tool L .....

c) State three maintenance of tool K (3mks)

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b) State the effects of high temperatures on crop production (4mks)

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22. a) State three types of weathering (3mks)

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b) Describe various ways in which biotic factors influences Agriculture (7mks)

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# BRILLIANT STUDENTS

## FORM 1 END TERM 1 SERIES 2 EXAMS

FORM 1

BIOLOGY

TIE: 2HRS

### INSTRUCTIONS

1. Answer all the questions in the spaces provided

1. a) Name the main branch of Biology that studies the following. (2mks)

i.Organisms such as a Crocodile.

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ii.Organisms seen as a bean plant.

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b) Explain the following biology sub-branches (5mks)

i.Mycology

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ii.Ornithology

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iii.Anatomy

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iv.Cytology

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v.Bio chemistry

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c) State any three scientific skills gained through the study of biology (3mks)

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2. Explain four reasons why you would encourage your friends in High school to study Biology (4mks)

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3. a) Explain the following characteristics of living organisms (4mks)

i.Growth

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ii.Development

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b) State any two environmental problems that the study of biology tries to solve. (2mks)

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c) Name the characteristics of living organisms, illustrated through the following activities.

(4mks)

i.A cow giving birth to a calf.

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ii. A student eating "Githeri" in the dining hall

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iii. A gazelle running away after spotting Lion from a distance.

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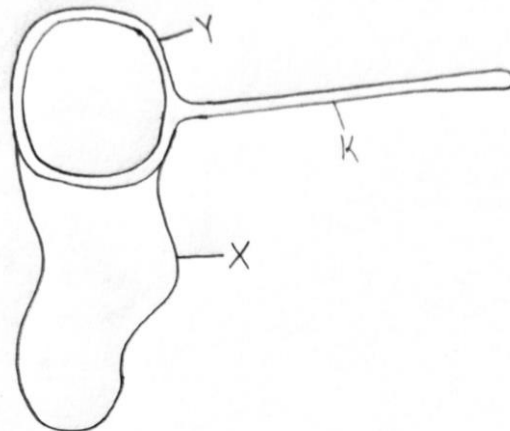
iv. A student sneezing after smelling strong perfume.

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4. Give two significance of locomotion to animals (2mks)

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5. a) Below is an instrument used for collection of specimen



i. Name the instrument

(1mk)

Name parts labelled;

X .....

Y .....

ii) Briefly explain how the instrument works (2mks)  
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b) State two precaution to follow when collecting a spider for biology study. (2mks)  
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c) State three ways in which plants compensate for their inability to locomote. (3mks)  
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6. How does nutrition as a characteristics of living organism differ in plants and animals. (2mks)  
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7. Differentiate between locomotion and movement (2mks)  
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**CLASSIFICATION 1**

8. a) Define classification

(2mks)

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b) State two reasons for classifying organisms

(2mks)

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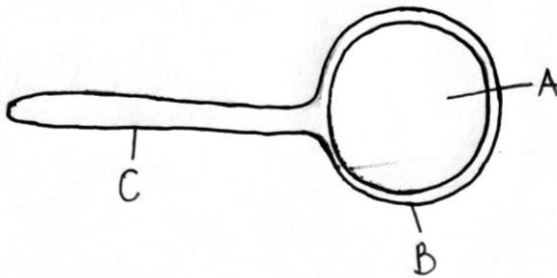
c) Differentiate between taxonomy and taxon

(2mks)

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9. a) Label parts A, B, C

(3mks)



A .....

B .....

C .....

b) Identify the apparatus above and state its function (2mks)

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c) If magnification of a drawing is X8 and the drawing length is 16cm. What is the actual length of the object (3mks)

10. a) What is binomial nomenclature (2mks)

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b) The scientific name for maize is *Zea mays*. Identify the generic and specific name (2mks)

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c) State two rules of binomial nomenclature (2mks)

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d) A cross between a donkey and a horse produces an infertile offspring called mule. Give a reason  
(2mks)

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11. State the five kingdoms into which living things are placed and its each case give two examples of organisms  
(5mks)

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12. List the seven units of classification in an hierarchical order from the smallest into the largest.  
(7mks)

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13. Define the term cell

(2mks)

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14. Name two types of microscopes

(2mks)

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15. Fill the table below

Part	Function
(i)	Holding while carrying microscope
Base	(ii)
(iii)	Contains lens for magnifying object
Fine adjustment knob	iv
Mirror	(v)
Condenser	(vi)

16. Mention four rules to be observed when one is using a microscope

(4mks)

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17. A student observed an animal cell under a microscope which was magnified X675 times using an eye-piece lens magnification power X15. What was the objective lens power? (Show your working)

(4mks)

18. State four differences between light microscope and electron microscope. (4mks)

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19. Name two functions of a microscope. (2mks)

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20. Mention two handling practices and care of a light microscope. (2mks)

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# BRILLIANT STUDENTS

## FORM 1 END TERM 1 SERIES 2 EXAMS

FORM 1

BUSINESS STUDIES

TIE: 2½HRS

### INSTRUCTIONS

1. Answer all the questions in the spaces provided

1. Give **four** examples of goods (4mks)

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2. Define the following terms as used in business studies (4mks)

a) Business

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.....

b) Business studies



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.....

c) Production

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d) Distribution

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.....

3. List **four** characteristics of basis wants (4mks)

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4. Name **four** types of utilities (4mks)

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5. State **four** aids to trade

(4mks)

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6. Highlight **four** reasons of starting a business

(4mks)

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7. Outline **four** characteristics of economic resources

(4mks)

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8. Give the reward for each of the following factors of production

(4mks)

- i.Land .....
- ii.Capital .....
- iii.Labour .....
- iv.Entrepreneurship .....



9. Give **four** examples of services (4mks)

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10. State **four** types of business activities (4mks)

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11. List **four** examples of natural resources. (4mks)

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12. Outline **four** characteristics of direct production (4mks)

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17. Classify the following items as either consumer or producer good (4mks)

- a) Tractor .....
- b) A TV in a hotel .....
- c) A personal car .....
- d) Student's exercise book .....

18. State the factor of production associated with the following items (2mks)

- a) Building .....
- b) Manager .....

**SECTION B (30MKS)**

19. Outline **five** differences between goods and services. (10mks)

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20. State and explain any **five** characteristics of human wants

(10mks)

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21. State and explain **five** subjects (disciplines) that comprises business studies (10mks)

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**BRILLIANT STUDENTS**  
**FORM 1 END TERM 1 SERIES 2 EXAMS**

**233**

**CHEMISTRY**

**TIME : 2HRS**

**CHEMISTRY FORM 1**

**TIME: 2 HRS**

**INSTRUCTIONS**

1. Write your name and admission number in the spaces provided above
2. Sign and write the date of examination in the spaces provided.
3. Answer all the questions in the spaces provided.
4. All working must be clearly shown where necessary.

***For examiner's use only***

Question	Maximum score	Candidate's score
1 – 20	100	

1. (a) Define the term chemistry

(2mks)

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.....

(b) List four branches of chemistry

(4mks)

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(c) Name three main branches of science

(3mks)

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2. Define the following terms

(5mks)

(a) Mixture

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.....  
.....

(b) Compounds

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.....



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.....

(c) Elements

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.....  
.....

(d) Atom

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.....

(e) Molecule

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.....  
.....

3. State two properties of

(a) Solid

(2mks)

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.....

(b) Liquids

( 2mks)

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4. What is a non-conductor?

(1mk)

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5. Define the following terms

(a) A drug (1mk)

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.....  
.....

(b) Drug abuse (1mk)

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6. (a) Name three commonly abused drugs (3mks)

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(b) Mention three negative effects of prolonged use of khat. (3mks)

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7. Name three roles chemistry plays in the society.

(3mks)

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8. List three careers one can join after studying chemistry

(3mks)

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9. List three scientific skills that can be acquired when performing chemistry experiments. (3mks)

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10. List five laboratory safety rules

(5mks)

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11. List three apparatus that are used to measure accurate volume (3mks)

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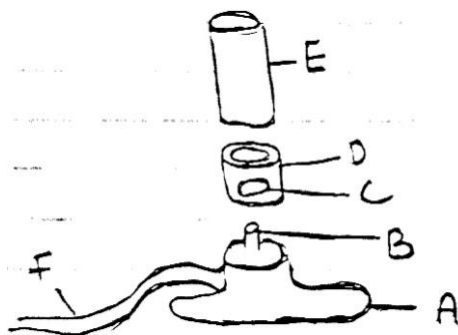
12. Draw and give the use of the following apparatus used in the chemistry (6mks)

(a) Thistle funnel

(b) Separating funnel

(c) Dropping funnel

13. The diagram below represents a Bunsen burner



(a) Give the name of the parts labeled A,B,C,D,E and F on the diagram (6mks)

A \_\_\_\_\_

B \_\_\_\_\_

C \_\_\_\_\_

D \_\_\_\_\_

E \_\_\_\_\_

F \_\_\_\_\_

(b) A Bunsen burner can produce two different types of flames under different conditions.

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(i) Name the two types of flames produced by a Bunsen burner (2mks)

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(ii) Give 3 differences between the two flames in (i) above (3mks)

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(iii) Draw and label the most suitable Bunsen burner flame preferred for heating in the laboratory (3mks)

14. Give the most suitable method of separating the following mixtures (5mks)

(a) Water and Ethanol

.....

(b) Kerosene from Water

.....

(c) Coloured pigments

.....

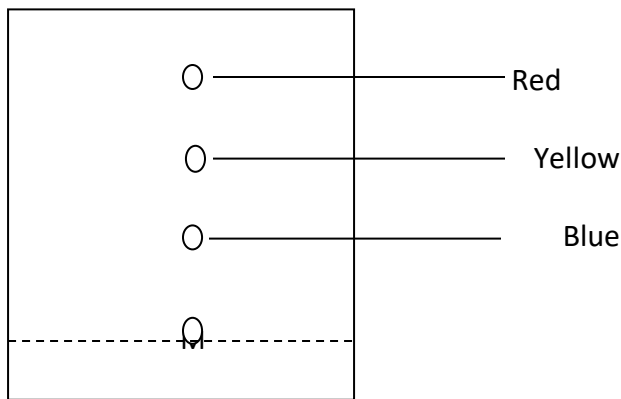
(d) Iodine from a mixture of sand and Iodine

.....

(e) Iron fillings from Sulphur Powder.

.....

15. The chromatography below show the constituents of a flower extract using organic solvent



(i) Name a possible organic solvent you can use for this experiment (1mk)

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.....

(ii) State two properties that make the red pigment to move the furthest distance from M. (2mks)

.....

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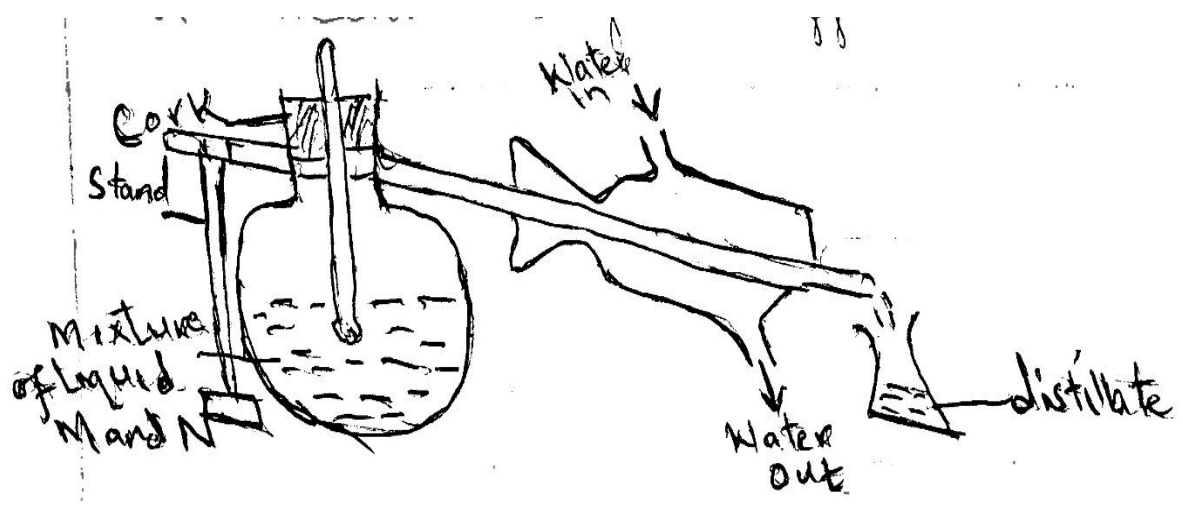
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(iii) On the diagram indicate the solvent front. (1mk)

16. Write down the chemical symbols of the following elements (5mks)

Element	Chemical Symbol
(i) Copper	.....
(ii) Zinc	.....
(iii) Silver	.....
(iv) Aluminium	.....
(v) Mercury	.....

17. In a experiment to separate a mixture of two organic liquid M and N with boiling point of 56°C and 118°C respectively, a student set up the apparatus as shown



(a) Identify 3 mistakes in the setup

(3mks)

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(b) What method would the students use to test the purity of distillate obtained

(2mks)

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(c) What is the purpose of the thermometer

(1mk)

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.....

(d) Give two applications of fractional distillation

(2mks)

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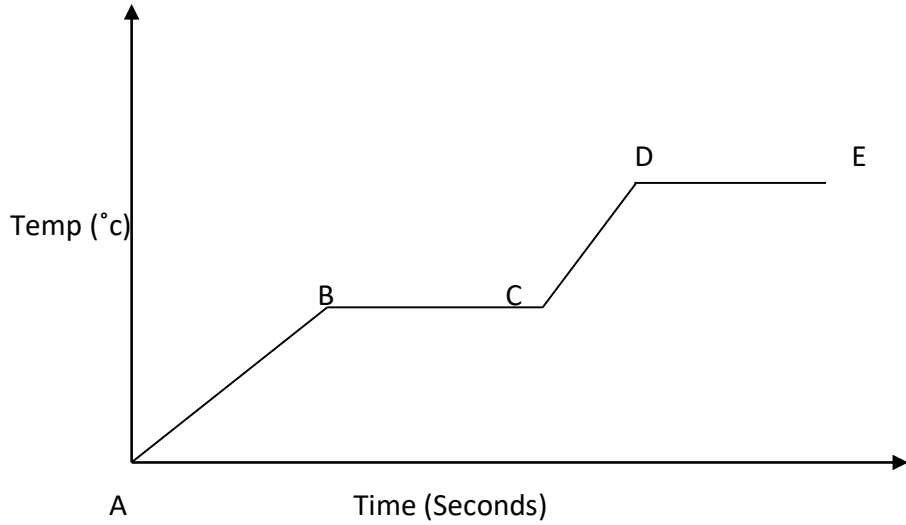
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18. Give three differences between chemical changes and physical changes

(3mks)

Chemical change	Physical change

19. The graph shown below is heating curve of solid substance. Use it to answer questions below



(a) Using kinetic theory of matter explain what happens in the following regions (6mks)

(i) AB

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.....  
.....

(ii) BC

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.....  
.....

(iii) CD

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20. Explain the following

(a) Boiling tube is usually more suitable for boiling liquids than a test tube (2mks)

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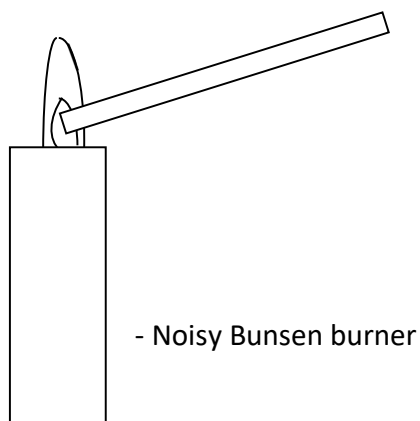
(b) Round bottomed flask is used for fractional distillation and not a flat bottomed flask (1mk)

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(c) - Flame



When glass tube is held in a noisy Bunsen flame as shown a small flame appears at the end of the glass tube. Explain (2mks)

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**BRILLIANT STUDENTS**  
**FORM 1 END TERM 1 SERIES 2 EXAMS**

COMPUTER STUDIES  
FORM ONE

TIME: 2<sup>1</sup>/<sub>2</sub> HOURS  
END OF TERM 1 EXAMINATION

**INSTRUCTIONS TO CANDIDATES**

- ✓ Answer all questions in spaces provided



1. Define the following terms (6mks)

a) Data

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b) Information

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c) Artificial intelligence

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2. State any five measures in the computer Lab meant to protect computers. (5mks)

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3. Explain four characteristics of computers (8mks)

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4. State and explain 2 classes of computer based on purpose (4mks)

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5. Give 3 characteristics of each of the following (6mks)

a) First generation computers

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b) Third generation computers

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6. Define the term 'computer laboratory' (2mks)

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7. Explain why water and dust particles are harmful to a computer (2mks)

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8. Identify three facilities that will ensure proper ventilation in computer room (3mks)

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9. List down 2 functions of the uninterruptible Power Supply (UPS) (2mks)

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10. Give and explain two types of computer booting (4mks)

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11. State four benefits of using a computer in a school store. (4mks)

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12. Differentiate between a digital and Analog computers (4mks)

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13. State and explain the four classes of computers according to physical size. (4mks)

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14. State five categories of computer keyboard keys (5mks)

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15. Explain five areas where computers are used. (10mks)

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16. Why is computer referred to as an electronic device (2mks)

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17. Explain three components that make up a computer system (6mks)

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18. Differentiate between the term computer and computer system (4mks)

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19. Explain three measures that are put in place to minimize dust in a computer laboratory (3mks)

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20. Define peripheral device and give two examples (4mks)

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21. List three factors that might have been considered when setting aside the room for computer laboratory. (3mks)

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22. a) What is a mouse?

(1mk)

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b) Describe the following mouse actions

(6mks)

i) Double click

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.....

ii) Right click

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.....  
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iii) Drag and drop

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.....

c) Explain how a cordless mouse works

(2mks)

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

**BRILLIANT STUDENTS**  
**FORM 1 END TERM 1 SERIES 2 EXAMS**

CRE  
FORM ONE

END OF TERM ONE EXAMINATION

TIME: 2<sup>1</sup>/<sub>2</sub> HOURS  
END OF TERM 1 EXAMINATION

**INSTRUCTIONS TO CANDIDATES**

- ✓ Answer five questions in spaces provided



1. a) Give reasons for studying Christians religious Education. (8mks)

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b) Identify reasons why the Bible is referred to as “the word of God”. (7mks)

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c) State **five** areas where the Bible is used in the society today. (5mks)

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2. a) Identify **SEVEN** versions of the Bible used in Kenya. (7mks)

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b) Give reasons why the Bible is referred to as a Library. (6mks)

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c) State **SEVEN** different occasions when Christians use the bible (7mks)

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3. a) Outline **SEVEN** historical books in the Bible. (7mks)

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b) Identify the effects of the Bible translation into African languages. (7mks)

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c) State various ways in which the bible is misused in Kenya today. (6mks)

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4. a) Outline the order of the first account of creation (Gen 1:2-4) (7mks)

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b) Identify the responsibilities given to human beings by God in biblical creation stories. (7mks)

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c) State ways in which Christian care for Gods creation today. (6mks)

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5. a) Give SEVEN ways through which man continues with God’s work of creation. (7mks)

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b) Identify **SEVEN** causes of sin according to Genesis 3. (7mks)

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c) State **six** causes of evil in Kenya today. (6mks)

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7. a) Identify the results of evil according to the African traditional society. (7mks)

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b) State the characteristics of a covenant. (7mks)

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c) State the promises God gave to Abraham. (6mks)

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NAME: .....

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# BRILLIANT STUDENTS

## FORM 1 END TERM 1 SERIES 2 EXAMS

ENGLISH

TIME: 2½HRS

END OF TERM ONE EXAMINATION 2019

ENGLISH FORM 1

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	10	
5	20	
6	20	
<b>TOTAL</b>	<b>100</b>	

1. COMPOSITION (20MKS)

Write a composition beginning with the following statement.

As I left home that Sunday afternoon, I never thought that my life would change.....

2. CLOZE TEST (20MKS)

Fill in each blank space with the most suitable word

A long time .....,**1** the Gikuyu Society was matriarchal. .... **2** was ruled by women. The founder .....,**3** Gikuyu and Mumbi, had only daughters. Worried that he might not have any male heirs, Gikuyu turned to God for assistance. .... **4** provided nine handsome ..... **5** to marry Gikuyu's daughters. The girls then became family and .....**6** heads. Thus, the nine clans among the Agikuyu bore feminine names. The matriarchal system .....**7** therefore established, and the Agikuyu have since referred to themselves as .....**8** of Mumbi. In those days, women held the top leadership. ....**9** were the only decision makers. The men worked in the field under the supervision of ..... **10**

3. COMPREHENSION (20MKS)

Read the following passage and answer questions that follow

**TURN THE POINTING FINGER**

A cancer it has been called. The comparison is suitable, for corruption, like cancer, is **insidious**. Cancer begins in a few cells in your body, and unless it is detected in time and arrested, it spreads to other areas. Similarly, corruption may begin with just two people and before we know it, it becomes a way of life for most of us. We are so quick to point fingers at others accusing them of corruption without ever turning the spotlight on ourselves. Until we accept the role each of us plays in **perpetrating** this evil and resolve to change, corruption is here to stay.

Part of the problem is that we tend to **justify** our corrupt acts on moral grounds. Take a hospital situation for instance. You take a beloved one there who is seriously sick. You observe that the doctor is not in any hurry to attend to your patient, but promptly sees those, though less ill have "seen him or her on the side".

You tell yourself that is it immoral to sit and watch your beloved die when you are in a position to save the situation. So you do “the necessary.” But have you ever stopped to think what happens to those who do not have money to bribe the doctors?

Corruption also manifests itself in other ways. For example, some of us feel that the cost of essential services such as water and electricity is unfairly high. We, therefore, think it is all right to **tamper with** the meters to make them indicate minimal consumption. The bolder ones among us will even **collude** with the officers concerned to make the records of such meters vanish into thin air. The next time you engage in this practice, stop and ask yourself if these services would still be available if all of us behaved like you. Also, think of the consequences when your forty days as a thief are over; for indeed you are a thief.

What about those who will offer bribes even before they are solicited for. They apply for a job somewhere and because they do not have confidence in their own qualifications, they take a “present” to the would-be employers. Others believe that qualifications, impressive as they may be, do not count for much. What matters is whom you know or see in advance. Unfortunate are those who know nobody and have no money. Most of us would agree that this state of affairs is totally undesirable and should be stopped. If you and I do not stop it, who do we expect to? Let merit be the basis on which jobs and other opportunities are obtained.

Over the years, there has been a chorus about how corrupt our police force is. Well, as the saying goes, it takes two to tangle in this dance of corruption. Many are the traffic offenders who will be quick to offer a bribe to a police officer immediately their vehicles are stopped. They opt to take the easy way out rather than face traffic charges in court. “It saves time and money,” they say. Is it any wonder then that we have so many road accidents? If they abided by traffic rules, they would have no need to bribe and would save something more precious-human lives.

We are also quick to complain that our courts are awash with the decay of corruption. What we forget is that the judges and magistrates do not bribe themselves. It is you and I who approach them, wanting to influence the outcome of our cases. We are convinced that regardless of how smart our lawyer is (if we have one) we cannot get a fair trial though we may be as innocent as an infant. But how will you like it if one day you suffer an injustice in court because somebody offered more money than you did? Justice is meant to take its due course, not to be bought like a kilogram of meat which many cannot afford.

Are you a doctor, a patient, a police officer, a motorist, a passenger, a judge or magistrate, a lawyer or a defendant? Whoever you are, turn the beam of light on yourself. Surely, there is a way, direct or indirect, in

which you have fed and fattened the monster called corruption. You may not participate in any corrupt acts but when you passively watch your neighbor steal electricity or a driver bribe a police officer and fail to report the matter to the relevant authorities, you are equally guilty.

**Questions**

Read the following passage and answer the questions that follow

a) In what way is corruption like cancer? (2mks)

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b) According to paragraph one what must we do to stamp out corruption? (2mks)

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c) What excuse do some people give for bribing doctors? (2mks)

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d) Who will suffer if we encourage bribery in hospitals? (2mks)

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e) Why is it wrong to tamper with electricity and water meters. (2mks)

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f) Rewrite the following sentence in the past tense (1mk)

Over the years there have been a chorus about how corrupt our police force is.

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g) What must drivers do to avoid the need to bribe? (1mk)

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h) Explain who is to blame for corruption in courts (2mks)

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i) Explain if the title is appropriate to the content of the story. (3mks)

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j) Explain the meaning of the following words as used in the passage (2mks)

i) Insidious

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ii) Perpetrating

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**4. ORAL LITERATURE (10MKS)**

**Read the following story and answer the questions that follow**

Once upon a time, a young woman went to meet her Warrior love out in the wilderness. He directed her to a place in the forest where he would meet her. “When you reach a fork along the path, take the right path.” The young woman set off but when she arrived at the fork, she followed the left path forgetting what the warrior had told her. After a while, she came across an Ogre who threatened to eat her up. The girl answered in a song.

Not here, my dear  
Let us go to the water hole  
Where you can eat me  
And have a drink

Oh, my dear warrior, where are you?

The Ogre led the young woman on and when they arrived at another spot, he said to her, “I am going to eat you here.” The young woman again broke into a song, urging him not to eat her yet. They went further on and each time, the Ogre threatened to eat her, she sang so that the warrior could hear her. Still, the warrior did not hear her. When they reached a cave by the river, the Ogre prepared a place where he could kill her. When he brought the leaves, she objected to ordinary leaves saying she preferred sweet smelling leaves. Eventually, the sweet-smelling leaves were brought. The Ogre laid the leaves on the ground and lit a big fire. All this while, the young woman was singing the same song. Just as the Ogre was about to eat her, the warrior arrived and shouted at the Ogre saying: “It is now your flesh that will be laid on those leaves.” The tables was turned on the Ogre.



Questions

a) Classify the narrative above. (1mk)

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b) Why did the young woman end up meeting the Ogre? (2mks)

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c) How did the young warrior come to know that his love, the young woman, was in trouble? (1mk)

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d) In the story, the Ogre’s name is written beginning with a capital letter. Mention the reason for this.

(2mks)

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e) “She came across an Ogre”. (Rewrite the statement in plural) (1mk)

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f) Other than the story you have identified in (1) above, list three other types of narratives. (3mks)

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5. ORAL SKILLS (20MKS)

a) Provide another word which is pronounced the same way as those below. (4mks)

i) Peace .....

ii) Eight .....

iii) No .....

iv) Whole .....

b) Underline the silent letters(s) in the words below. (3mks)

i) Tomb

ii) Hour

iii) Knead

c) Classify the words below according to the pronunciation of the vowel sound. (4mks)

Chip, leave, keep, dip, seen, pit, these, lid

/i:/	/i/

d) During a reading lesson, the teacher asked the students to silently read a passage in the course book. Afterwards, the teacher remarked that some students had read improperly. Mentioned three mannerisms that the students had shown for the teacher to remark so. (3mks)

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e) Read the genre below and answer the questions that follow.

A: My house has no door.

B: The brain

A: No

B: An avocado

A: No. If I tell you the answer, what will you give me?

B: I will give you a gizzard.

A: The answer is an egg.

**Questions**

i) Classify the genre above. (1mk)

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ii) Who says the parts labeled. (2mks)

A: \_\_\_\_\_

B: \_\_\_\_\_

iii) What is the name of the part:

“The answer is an egg”? (1mk)

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iv) List two functions of the genre you have identified in (i) above. (2mks)

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**6. GRAMMAR (20MKS)**

**a) Fill in the blank spaces in the sentences below using an appropriate abstract noun formed from the word in brackets. (3mks)**

- i) Maria's .....(kind) earned her respect among her peers.
- ii) .....(corrupt) is a vice which should be fought by everyone.
- iii) Kimani's .....(sick) affected Amani.

**b) Use 'a', 'an' or 'the' to fill in the gaps in the sentences below. (4mks)**

- i) The king appointed him .....heir to the throne.
- ii) My brother loves playing .....Piano.
- iii) There was .....man standing at the door. ....man was in a blue suit.
- iv) The course will take .....year.

**c) Use the plural forms of the words in the brackets to fill in the gaps in the sentences below.**

**(4mks)**

- i) The .....(thief) were identified by the .....(chief) of their villages.
- ii) There were only six .....(fox) in the cage.
- iii) The boys forgot their .....(luggage) in the school bus.
- iv) The .....(sheep) were grazing in the field.

**d) Punctuate the following sentences correctly (3mks)**

i) peter works for a company in kigalirwanda

.....

ii) mercy the cateress is a hardworking lady



.....

iii) how did you find life in nyeri

.....

e) Rewrite the sentences below while correcting the errors (2mks)

i) My names are Susan Muthoni

.....

ii) The preacher repeated the statement again

.....

f) Use an appropriate pronoun to complete the sentences below. (2mks)

i) The car in the garage is .....

ii) .....mother is a nurse.

g) Fill in the blank spaces in the following sentences using an appropriate form of the verb given in brackets.

(2mks)

i) The girls .....(sweep) the room yesterday morning.

ii) Jane .....(go) to the clinic every Monday.



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# BRILLIANT STUDENTS

## FORM 1 END TERM 1 SERIES 2 EXAMS

312

### GEOGRAPHY

TIME: 2 ¾ HOURS

INSTRUCTIONS TO CANDIDATES:

- This paper consist of two Sections A and B.
- Answer all questions in both sections.

1. a) i) What is Geography? (2 mks)

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ii) Give the two Greek words from which the term Geography is derived. (2 mks)

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b) i) Define the term environment. (2 mks)

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ii) Identify two type of environment. (2 mks)

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2. a) State any three areas of study in practical geography. (3 mks)

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b) Explain any four importance of studying geography. (8 mks)

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3. a) For each of the following statements, identify the subject which is applied.

i) Identifying the types of rocks in the earth's crust. (1 mk)

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ii) Studying atmospheric conditions of an area. (1 mk)

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iii) Study of solar energy. (1 mk)

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iv) Calculation of areas, distance and densities in geography. (1 mk)

b) i) What is orbit? (1 mk)

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ii) With the aid of a diagram show the order of the planets based on their distance from the sun. (8 mks)

4. a) i) Give the specific shape of the earth. (1 mk)

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ii) Name three forces responsible for the shape of the earth. (3 mks)

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b) State four reasons why the earth is believed to be spherical in shape. (4mks)

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5. a) One of the theories used to explain the origin of the solar system is the passing star theory. Give three weaknesses of this theory. (3 mks)

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b) List down three effects of the earth's revolution. (3 mks)

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6. a) With the aid of a well labeled diagram, describe the occurrence of a solar eclipse. (6 mks)



b) Give two differences between solar eclipse and lunar eclipse. (4 mks)

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7. a) Give the specific dates of the year when overhead position of the midday sun is on the following latitudes.

i) Tropic of cancer (1 mk)

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ii) Tropic of Capricorn (1 mk)

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iii) Equator (1 mk)

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b) If the local time in Sydney ( $60^{\circ}\text{W}$ ) is 7.30 a.m. What time is it at Wajir ( $40^{\circ}\text{E}$ )? (4 mks)

8. a) Name three minerals that makes up the earth's crust. (3 mks)

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b) State three characteristics of the mantle. (3 mks)

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9. a) List down any four elements of weather. (4 mks)

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b) State four factors that determine the amount of solar radiation reaching the earth's surface. (4 mks)

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10. a) Give the purpose for each of the following items in a weather station.

i) Stevenson screen (1 mk)

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ii) Hygrometer (1 mk)

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iii) Barometer (1mk)

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b) Name four main zones/layers of the atmosphere. (4 mks)

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11. a) With the aid of a well labeled diagram describe the formation of relief rainfall. (7 mks)

b) i) Name three high clouds. (3 mks)

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ii) Highlight four significance of weather forecasting.

(4 mks)

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*END*

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**BRILLIANT STUDENTS**  
**FORM 1 END TERM 1 SERIES 2 EXAMS**

FORM 1

HISTORY AND GOVERNMENT

TIE: 2½HRS

**END OF TERM ONE EXAMINATION**

FORM 1

HISTORY AND GOVERNMENT

TIME: 2½HRS

**INSTRUCTIONS**

- 2. The paper contain two sections A and B
- 3. Answer all the questions in this paper.



SECTION A (25MKS)

1. Define the term History (1mk)

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2. Define the term government (1mk)

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3. Name **two** periods in History (2mks)

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4. State **two** aspects of social history (2mks)

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5. Give **two** examples of monarchical government (2mks)

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6. Identify **one** form of oral tradition (1mk)

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7. Define an archaeological site (1mk)

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8. State **one** example of an audio visual media (1mk)

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9. Name **one** theory of the origin of early human (1mk)

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10. List **two** archaeological sites in Tanzania (2mks)

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11. Name **two** sub species of Australopithecus (2mks)

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12. Identify the latest type of tools made and used by human during the new stone age period (1mk)

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13. Name the hominid that discovered the use of fire (1mk)  
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14. State **two** importance of rock art during the Stone Age period. (2mks)  
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15. Identify the first crop to be grown by human (1mk)  
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16. State **two** forms of irrigation carried out in Egypt (2mks)  
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17. State **two** inventions that made agriculture successful in Mesopotamia (2mks)  
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**SECTION B (75MKS)**

18. a) State **three** advantages of the use of linguistics as a source of history and government (3mks)

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b) Explain **four** importances of studying history in secondary schools (8mks)

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19. a) State **four** features of homo sapiens sapiens (4mks)

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b) Describe the culture of human during the Old Stone Age period (6mks)

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20. a) List down **two** reasons why Africa is regarded to as the original homeland of humankind (2mks)

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b) State **six** reasons why human domesticated animals (6mks)

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21. a) Identify **five** uses of tools by the early humans (5mks)

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b) Explain **five** advantages of domesticating animals

(10mks)

22. a) Name **two** aspects of culture of early human that developed during the late stone age period

(2mks)

b) Explain **five** importances of the invention of fire by the early human

(10mks)

23. a) State **two** theories of the origin of agriculture (2mks)

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b) Explain **three** factors that favored development of early agriculture in Egypt (6mks)

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24. a) State **three** arms of government (3mks)

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b) Explain **four** importances of studying government in Kenyan schools (8mks)

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**BRILLIANT STUDENTS**  
**FORM 1 END TERM 1 SERIES 2 EXAMS**

FORM 1  
HOME SCIENCE  
TIE: 2HRS

**END OF TERM ONE EXAMINATION**

FORM 1  
HOME SCIENCE  
TIME: 2HRS

**INSTRUCTIONS**

1. The paper contain three sections **A, B** and **C**
2. Answer all the questions in section **A** and **B**
3. Answer any **two** questions in section **C**



SECTION A (40 MKS)

1. Define home science (1mk)

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2. Name two subjects related to Home science (2mks)

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3. List two courses you may be enrolled in as a home science secondary school leaver (2mks)

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4. Identify two areas which can be benefited by study of Home science (2mks)

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5. Name one income generating activity one can engage in as a home science graduate. (1mk)

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6. Name three parts that make a skin (3mks)

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7. List three infections that can affect the skin (3mks)

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8. Why should a person wash hands. (2mks)

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9. Name three layers (parts) of the tooth structure (3mks)

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10. How can you treat dry hair after washing (1mk)

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11. Give reasons why we should not share personal items (2mks)

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12. State two factors to consider when choosing clothes (2mks)  
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13. State two reasons why adolescents should practice proper hygiene (2mks)  
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14. Differentiate between burns and scalds. (2mks)  
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15. State two causes of suffocation (2mks)  
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16. Write two contents of first Aid kit. (2mks)  
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17. Give two instructions that a patient may be given by the doctor. (2mks)  
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18. State two disadvantages of flats (2mks)  
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19. List two types of furniture that may be found in the living room. (2mks)  
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20. Give two methods of providing shelter to the family (2mks)  
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**SECTION B (20MKS) COMPULSORY**

21. a) Name and explain four essential areas found in the house (8mks)  
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b) Explain how you would manage a snakebite when it occurs. (12mks)

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SECTION C (40MKS)

*Answer any two questions*

22. a) Highlight five factors to consider when building a house (5mks)

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b) Explain steps followed in management of fainting. (5mks)

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c) Explain how to care for canvas shoes (10mks)

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23. a) State five importance of home science to an individual

(5mks)

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b) State five functions of the skin

(5mks)

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c) Explain how to care for teeth

(10mks)

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c)State five ways of enhancing personal appearance

(5mks)

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JINA: .....

SHULE: .....

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

## BRILLIANT STUDENTS

### FORM 1 END TERM 1 SERIES 2 EXAMS

**UFAHAMU (ALAMA 15)**

*Soma kifungu kifuatacho kasha ujibu maswali yanayofuata*

**Madhara ya sigara**

Chimbuko la kuonekana kwa madhara ya tumbaku ilikuwa mwaka 1598 A.D. Madhara yake yaligundulika wakati ambapo makala ya kwanza ya kiafya iliandikwa nchini Uingereza ikieleza madhara ya sigara. Baada ya hapo zilifuatia tafiti mbalimbali zilizoendelea kugundua na kuelezea madhara yatokanayo na matumizi ya bidhaa za tumbaku kwa binadamu. Matokeo ya tafiti hizo yaliwezesha baadhi ya nchi kama vile Denmark, Uholanzi na Sweden kutunga sheria zinazozuia matumizi ya sigara. Katika sura ya pili, baadhi ya serikali zilikwazwa kiuchumi kwa kukosa pato la kodi zitokanazo na sigara na bidhaa zingine za tumbaku.

Mashirika na kampuni zinazojishughulisha na uzalishaji na uuzaji wa sigara hutenga fungu kubwa la fedha kwa ajili ya kutangaza bidhaa hiyo hatari kwa afya ya mwanadamu. Kila mwaka, Shirika la Afya Ulimwenguni hutenga siku maalumu ya kuelimisha jamii kuhusu athari za kiafya na madhara yatokanayo na matumizi ya tumbaku. **Maadhimisho** hayo hufanyika kila Mei 30 ya mwaka na kauli mbiu ya mwaka huu ilikuwa “Mkinge mwanamke kuwa mteja au kutumiwa kama mhamasishaji wa bidhaa zingine za tumbaku’.

Takwimu za shirika hilo zinabainisha kuwa asilimia 90 ya wavutaji sigara wameanzia umri wa miaka 18. Pia zimebainisha kuwa, kwa kila sekunde ipitayo, wastani wa mtu mmoja anafariki kutokana na madhara ya tumbaku. Inakadiriwa kuwa ifikapo mwaka 2025, vifo vitaongezeka kwa asilimia 70. Utafiti umebainisha ifikapo mwaka 2030, watu milioni 10 watakuwa wamefariki kutokana na kuvuta sigara.

Uvutaji sigara unasababisha magonjwa mengi kama vile saratani ya mapafu, wendawazimu, **kupooza**, matatizo ya mfumo wa hewa, kutoboka utumbo, kunyonyoka nywele, kupungua kwa nguvu za kiume, maradhi ya ngozi na kadhalika. Madhara ya tumbaku hayajitokezi mara moja. Huchukua kipindi kirefu hata miaka 30, hali inayowafanya

wengi kufumbia macho tahadhari iliyopo, wakiendelea kuteketezwa na uvutaji sigara. Anayevuta sigara huathirika mapafu kutokana na moshi na tindikali – aina ya kaboni iliyomo kwenye tumbaku inayomzuia kupumua na mapafu yake huanza kutunga usaha. Hali hiyo huchangia mtu kupata athari nyinginezo kama vile kichomi, kifua kikuu na saratani. Chembechembe ya nikotini iliyomo katika tumbaku ni hatari kwa mvutaji kwani humpotezea mtu hamu ya kula na anapata maumivu makali ya tumbo.

Wakati wote, mvutaji sigara hutoa harufu mbaya mdomoni, hali ambayo haipendezi katika maisha ya mwanadamu, na pia, huwa anawadhuru wengine. Mtu huyo anapopumua huchafua mazingira kwa kupumua hewa chafu na mbaya zaidi ambayo huwadhuru watu walio karibu naye kama vile mwenza katika ndoa (mke au mume), watoto au marafiki.

Inaelezwa kuwa sigara huathiri akili ya mwanadamu kutokana na kuwepo kwa chembechembe za ulevi. Hali hiyo ipo zaidi mtu anapotumia sigara kwa mara ya kwanza kabisa. Utafiti wa kitaalamu umethibitisha watoto wanaolelewa katika mazingira ya wazazi wanaotumia sigara kuathirika mishipa inayosafirisha damu kwenda katika moyo. Hali hiyo husababisha kuharibika kwa mfumo wa usafirishaji damu mwilini kwa watoto hao na mwishowe wanakuwa wahanga wa maradhi tofautitofauti.

Katika sura ya pili ya kisaikolojia, watoto wanaokaa na wazazi wanaovuta sigara huishia kuifuata tabia hiyo na huo ndio huwa mwanzo wa kudhoofika kwa maadili. Kwa wajawazito, sigara ina madhara kama vile kuathiri ukuaji wa mimba na kondo la nyuma au *placenta* kwa Kiingereza na kushindwa kusafirisha chakula vizuri kutoka kwa mama kwenda kwa moto. Madhara mengine ni moto kuzaliwa na uzito pungufu, hivyo kuathiri ukuaji wake. Kwa hivyo, ni vyema kufahamu kuwa ingawa sigara ni bidhaa inayotumiwa kama uraibu wakati wa kuivuta, madhara yake ni janga kubwa linalopaswa kupigwa vita bila kuchoka.

Maswali

(a) Madhara ya sigara yalionekana mwaka gani ? (alama 1)

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(b) Ni nchi gani zilizokuwa za kwanza kubuni sheria mpya kuhusu uvutaji wa sigara ? (alama 1)

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(c) Uvutaji wa sigara una athari gani kwa anayevuta ? (alama 5)

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(d) Watoto wanaathiriwa vipi na sigara ? (alama 4)

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(e) Thibitisha kwamba uvutaji sigara hugharimu pesa nyingi. (alama 2)

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(f) Eleza maana ya msamiati ufuatayo kama ulivyotumiwa katika kifungu. (alama 2)

(i) Kupooza

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(ii) Maadhimisho

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**LUGHA - SEHEMU B**

**(a) Kwa kuzingatia jinsi ya kutamka sauti za kswahili ni nini tofauti kati ya (alama 2)**

(i) Irabu

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(ii) Konsonanti

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**(b) Eleza maana ya dhana hizi ( alama 2)**

(i) Kiimbo

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(ii) Shadda

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**(c) Taja vipashio vine vya lugha (alama 4)**

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**(d) Andika sentensi zifuatazo katika hali timilifu (alama 2)**

i. Mabati yananunuliwa

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ii. Baba atakwenda dukani

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**(e) Kanusha sentensi zifuatazo (alama 3)**

(i) Nchi za Afrika mashariki zalemewa na madeni.

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(ii) Mbu amemuuma mtoto.

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(iii) Baba ameandika barua ndefu.

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**(f) Zigeuze sentensi zifuatazo ziwe katika wakati uliopita (alama 2)**

(i) Unapendelea kula nyama siku hizi.

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(ii) Opiyo alipenda kujiingiza katikati kama mchuzi wa ugali.

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**(g) Andika kwa wingi (alama 2)**

(i) Maziwa ya mtoto yalimwagwa na paka yule.

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(ii)Uvivu wa Juma unakera.

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**(h) Akifisha sentensi zifuatazo (alama 2)**

(i ) nenda sokoni ukaninunulie sukari maziwa na mkate

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(ii) Maadam umeshafika tuanze mkutano

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**(i) Kamilisha jedwali lifuatalo kwa kuandika viambishi mwafaka kulingana na kitenzi (alama 5)**

Kitenzi	Nafsi	Wakati	Kirejeshi	Kitendwa	Mzizi	kiishio
Aliyelima						
Aliyempiga						
Anaoupanda						
Alipika						
Nitavileta						

**(j) Taja vipera vya fasihi simulizi (alama 2)**

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**(k) Onyesha vielezi katika sentensi zifuatazo (alama 2)**

Mama amepika chai tamu sana

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Nitakutembelea kesho jioni

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**(l) Nyambua vitenzi vifuatavyo katika kauli ya kutendwa (alama 4)**

Piga - .....

Jenga - .....

Fagia - .....

Chora - .....

**(m) Taja na ueleze dhima ya lugha (alama 2)**

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**(n) Andika sentensi zifuatazo katika hali ya mazoea (alama 2)**

(i) Mchoraji yule anachora picha nzuri

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(ii) Mpishi atapika chakula kitamu

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**(o) Bainisha maneno katika sentensi zifuatazo. (alama 4)**

Salaala ! Majangili wamewaua ndovu kumi leo asubuhi

Wale watafungwa

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**FASIHI (ALAMA 15)**

Taja majukumu matano ya fasihi ya kiswahili (alama 5)

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Taja tofauti ya fasihi simulizi na fasihi andishi (alama 10)

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NAME: .....

SCHOOL: .....

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# BRILLIANT STUDENTS

## FORM 1 END TERM 1 SERIES 2 EXAMS

MATHEMATICS

FORM ONE

TIME: 2<sup>1</sup>/<sub>2</sub> HOURS

TERM 1

END OF TERM 1 EXAMINATION

**INSTRUCTIONS TO CANDIDATES**

✓ Answer all questions in spaces provided

**SECTION 1**

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

**SECTION 2**

17	18	19	20	21		GRAND TOTAL



1. Evaluate  $26 \div 2 + 3 \times 7 - 4 \times 5$

3mks

2. Evaluate  $3\frac{1}{3} + \frac{6}{7}$  of  $5\frac{4}{9}$

3mks

3. A watermelon vendor had 1500 watermelons. He sold 800 on the first day and 250 on the second day. He added 470 to the remaining stock on the third day.

a. How many watermelons did he have at the end?

2mks

b. If he sold all the watermelons at an average cost of sh. 100. Each. How much money did he collect.

2mks

4. a. State the place value and total value of the underlined digit in 473645 2mks

b. Write the number in (a) above in words. 1mk

5. Round off 4 827 627.931 to the nearest

i. Ten thousand 2mks

ii. Hundredths 2mks

6. Test whether 712.008 is divisible by 11 2mks

7. Express as a fraction in its simplest form  $0.6\dot{3}$  3mks

8.  $\frac{3}{5}$  of the pupils in a school are boys. If there are 96 girls in the school, how many pupils are there in the school. 3mks

9. Express 1728 as a products of its prime factors in power form. 3mks

10. Arrange the following fractions in descending order

$\frac{1}{2}, \frac{3}{5}, \frac{4}{7}, \frac{8}{9}, \frac{2}{3}$

3mks

11. Evaluate  $\frac{0.0195 \times 4.55}{13.0 \times 0.35}$

3mks

12. Find the G.C.D of 32, 48, 36

2mks

13. Three alarms signal at interval of 40 minutes, 45 minutes and 60 minutes. If they signaled simultaneously at 6.30am, at what time will they next signal together. 3mks

14. Doris office is on the twenty second floor in a storey building. On a certain day, she walked up five floors from her office to another office. She then took a lift to the third floor. Calculate the number of floors she went through while in the lift. 3mks

15. Use tables to find

i.  $423^2$

2mks

ii.  $\sqrt{0.067}$

2mks

16. Express the following number as stated.

i. 0.000000718 (in standard form)

2mks

ii.  $1.56 \times 10^{-5}$  (in normal form)

2mks

17. a. Carol borrowed sh. 150,000 she paid back sh. 25,000 in the first month. Sh 15,000 in the second month and sh. 34,000 in the third month. She paid the rest in equal amounts for two months. How much did she pay for each of the last two months. 4mks

b. Find the difference in value between the largest number and the smallest number formed by digits 5, 2 and 8. 3mks

c. The first four even numbers are written in descending order to form a number.

i. Write down the number 1mk

ii. Find the total value of the thousands digit in the number. 2mks

18. a. Express the following numbers as products of prime factors using power notation.

(i) 5148 2mks

(ii) 6084 2mks

b. Hence leaving your answers in prime factor form.

(i) Evaluate  $\frac{(5148)^2}{\sqrt{6084}}$  4mks

(ii) Find G.C.D and L.C.M of 5148 and 6084. 2mks

19. a. Three metal rods of lengths 234cm, 270cm and 324cm were cut into shorter pieces, all of the same length to make window grills. Calculate the length of the longest piece that can be cut from each of the rods and hence the number of pieces that can be obtained from the rods.

4mks

b. A metal dealer had a piece of wire which he intended to cut into pieces of 8m, 15m or 21m. determine the minimum length of the wire that would give an exact number of pieces of each length.

3mks

c. The G.C.D of two numbers is 12 and their L.C.M is 240. If one of the numbers is 60. Find the other number.

3mks

20. a. simplify

3mks

$$1\frac{1}{9} \times \frac{3}{8} \text{ of } 2\frac{2}{5}$$

b. Mr. Kamau sold two thirds of his fruits on Monday, and  $\frac{3}{4}$  of the remainder on Tuesday. He had then 60 left. How many fruits had she at first. 3mks

$$c. \frac{\frac{2}{3} \text{ of } 5\frac{2}{5} - 2\frac{3}{10}}{\frac{3}{5} \div 4\frac{1}{2} + 1\frac{3}{5}}$$

4mks

21. a) Find the value of  $(25 + 36)^2 - 625 \div 25 \times 4$

3mks

b) Evaluate  $\frac{-8x + 2 + -11}{+18 \div -2x + 3}$

3mks

c) Use number line to evaluate.

i)  $-5 + 3$

2mks

ii)  $(-7) + (-1)$

2mks

NAME: .....

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## BRILLIANT STUDENTS

### FORM 1 END TERM 1 SERIES 2 EXAMS

FORM ONE

PHYSICS 232

END OF TERM ONE EXAMINATION

TIME : 2 ½ HOURS

INTRODUCTIONS TO CANDIDATES

Write your name, Admission number and school

- This paper has two sections, answer all the questions in the spaces provided
- Follow the instructions given carefully
- All workings must be clearly shown.

FOR EXAMINERS USE ONLY

SECTION	QUESTION	MAXIMUM SCORE	CANDIDATES SCORE
A	1-25	60MKS	
B	26	7	
	27	5	
	28	9	
	29	5	
	30	7	
	31	7	
		100MKS	

SECTION 1

ANSWER ALL QUESTIONS (60MKS)

1. Define physics (1mk)

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.....

2. Name two branches of physics (2mks)

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3. Give two career opportunities for someone who has done physics upto form four level (2mks)

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4. State two laboratory rules (2mks)

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5. Define the following quantities of measurements and give their S.I unit

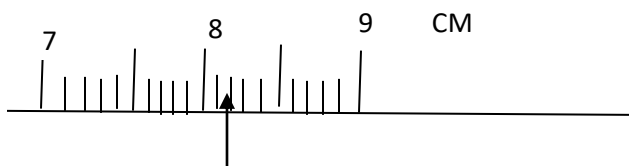
i. Length (2mks)

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ii. Volume (2mks)

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6. State the reading shown by the arrow below (1mk)

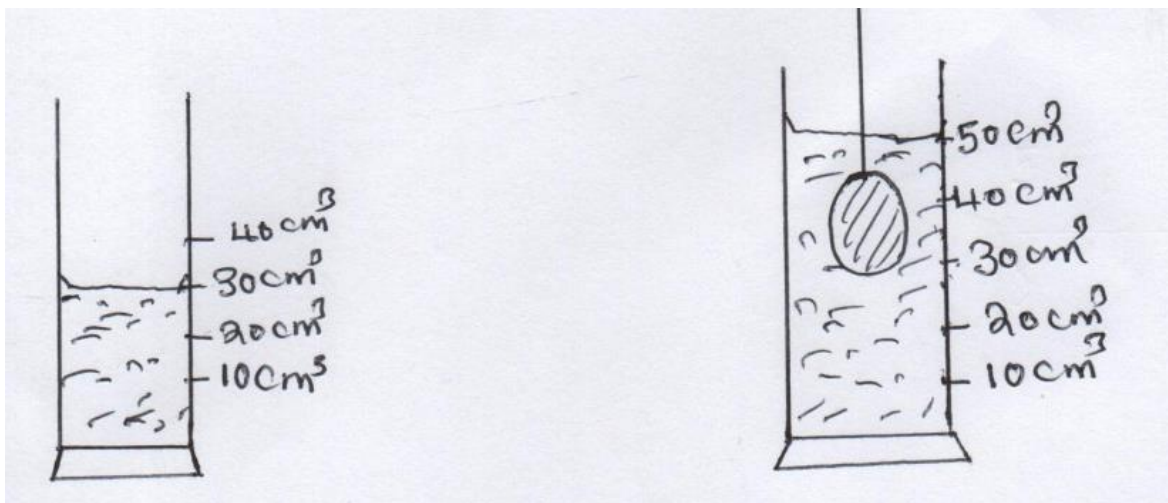


7. A sheet of paper measures 25cm by 15cm. calculate its area in mm<sup>2</sup> (3mks)



8. A sphere of diameter 7.0CM is moulded into a thin uniform wire of diameter 0.35cm. calculate the length of the wire in metres (take  $\pi = \frac{22}{7}$ ) (4mks)

9. Use the set up below to answer the questions that follows



a) Find the volume of the stone (2mks)

b) Calculate the density of the stone given that it's mass is 250g (2mks)

10. A tank measures 20cm long, 10m wide and 2m high. Calculate the mass of water in the tank when it is full. Density of water is  $1000\text{kg/m}^3$  (3mks)

11. Give two effects of force (2mks)

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12. Describe the following forces (2mks)  
i. Upthrust

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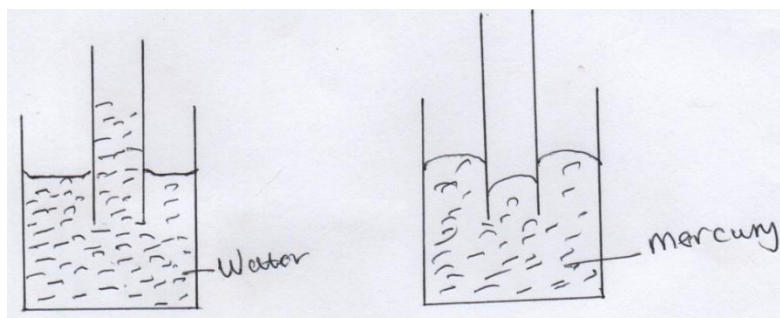
ii. Tension

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13. The diagram below shows water and mercury in a narrow tube. State the reason why the levels are different (2mks)



14. Explain why a steel needle placed carefully on the surface of water does not sink (2mks)

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15. Give three differences between mass and weight (3mks)

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16. Differentiate between vector and scalar quantities, give one example of each (3mks)

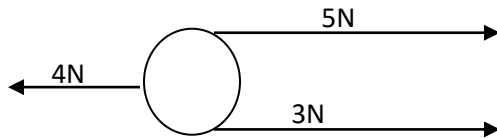
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17. Give the resultant force in the following (2mk)



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18. Define pressure and give its S.I unit (2mks)

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19. The initial reading in a burette containing water is  $25\text{cm}^3$  twenty drops of water each of average volume  $0.25\text{cm}^3$  falls from the burette. Find the final burette reading (3mks)

20. Name two instruments in a physics laboratory that are used to measure the volume of a liquid (2mks)

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21. Explain why it is not suitable to determine the volume of an irregular charcoal using displacement method (2mks)

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22. Differentiate between a basic quantity and a derived quantity (2mks)

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23. The mass of a book is 250g. calculate its weight given that gravitation strength is 10N/kg (3mks)

24. Define force and give its S.I unit (2mk)

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25. Give two factors that affect pressure in liquids (2mks)

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SECTION 11 (40MKS)

ANSWER ALL QUESTIONS

26. The mass of an empty density bottle is 20g. it is 45g when full of water and it weighs 60g when full of liquid X. Calculate

A) Mass of water (1mk)

B) Mass of liquid X (1mk)

C) Volume of water, given its density is  $1\text{g/cm}^3$  (2mks)

D) Volume of the bottle (1mk)

E) Density of liquid X (2mks)

27. You are provided with the following

- Eureka can
- A small beaker
- A stone
- A measuring cylinder
- Some water

Describe how you will use the apparatus above to measure the volume of the stone (5mks)

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28. A brick 30cm long, 20cm wide and 10cm thick has a mass of 500g. Determine.

a) The weight of the brick (1mk)

b) The greatest area occupied by the brick when placed on the ground (2mks)



c) The least area occupied by the brick when placed on a flat surface (2mks)

d) The maximum pressure exerted by the brick on a flat surface (2mks)

e) The least pressure exerted by the brick on a flat surface (2mks)

29. In an experiment to estimate the diameter of a cylindrical wire, a thin thread wraps round a cylinder exactly 30 times.

Calculate

a) The circumference of the cylinder if the length of the thread is 50cm. (2mks)

b) The radius of the wire

(3mks)

(take  $\pi = \frac{22}{7}$ )

30.  $100\text{cm}^3$  of fresh water of density  $1000\text{kg/m}^3$  is mixed with  $100\text{cm}^3$  of sea water of density  $1030\text{kg/m}^3$ .

Calculate

a) Mass of fresh water

(2mks)

b) Mass of sea water

(1mk)

c) Total mass

(1mk)

d) Total volume (1mk)

e) Density of the mixture (2mks)

31. A) Define area and give its S.I unit (2mks)

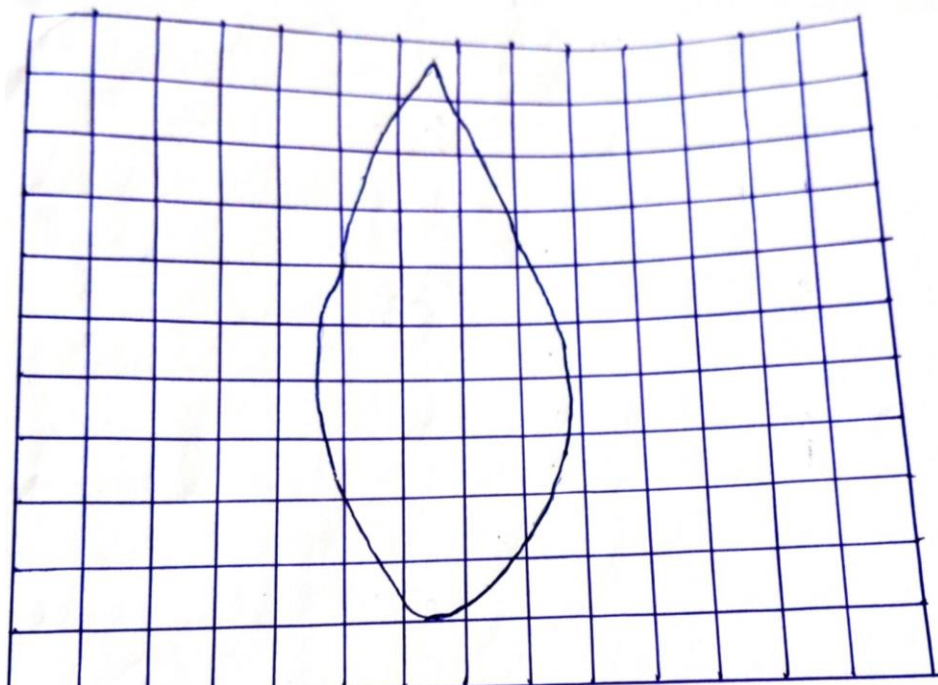
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b) The following is an outline of a leaf use it to answer the questions given. One square measures 1cm by 1cm.



i) State the number of complete squares (1mk)

.....  
.....

ii) State the number of in complete squares (1mk)

.....  
.....

iii) Calculate the area of the leaf (3mks)



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