BRILLIANT STUDENTS FORM 1 END TERM 3 SERIES 1 EXAMS *(17 SUBJECTS TESTED)*



BRILLIANT STUDENTS FORM 1 END TERM 3 SERIES 1 EXAMS

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ORDER OF THE 17 SUBJECTS TESTED

(ALPHABETICALLY ARRANGED)

1. **AGRICULTURE**
2. **ART AND DESIGN**
3. **BIOLOGY**
4. **BUSINESS STUDIES**
5. **CHEMISTRY**
6. **COMPUTER**
7. **C.R.E**
8. **DRAWING AND DESIGN**
9. **ENGLISH**
10. **FRENCH**
11. **GEOGRAPHY**
12. **HISTORY**
13. **HOMESCIENCE**
14. **I.R.E**
15. **KISWAHILI**
16. **MATHS**
17. **PHYSCIS**

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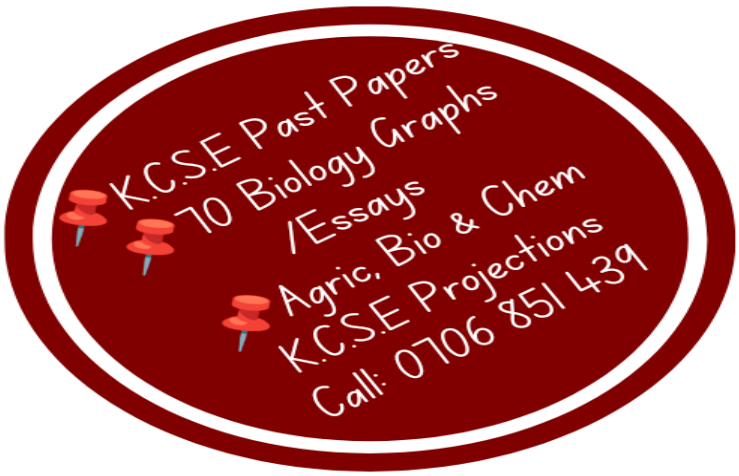
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BRILLIANT STUDENTS

FORM 1 END TERM 3 SERIES 1 EXAMS

NAME: ……

SCHOOL: ……

ADM NO: …… **SIGN:** …… **DATE:** ……

AGRICULTURE (QUESTION PAPER)

FORM ONE

TIME 2 HOURS

INSTRUCTIONS TO ALL CANDIDATES:

a) ***Write your name and admission number in the spaces provided.***

b) ***This paper consists of section A, B and C.***

c) ***Answer all questions in section A, B and C in the spaces provided.***

FOR EXAMINER USE ONLY

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATE SCORE
A	1-16	50	
B	17-20	20	
C	21-22	30	
	TOTAL	100	

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SECTION A (50 MARKS) ANSWER ALL QUESTIONS.

1.Differentiate between olericulture and pomoculture as used in crop production. **(2mks)**

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2.List four methods of farming. **(4mks)**

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3.State four advantages of organic farming. **(4mks)**

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4.Give four advantages of intensive farming. **(4mks)**

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5.List three physical weathering agents in the soil formation process. **(3mks)**

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6.State two mechanical methods of separating soil particle according to size during soil analysis. **(2mks)**

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7.State two effects of HIV/AIDS on agricultural production. **(2mks)**

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8.Distinguish between soil structure and soil texture. **(2mks)**

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9.Give three reasons for growing crops under optimum temperature conditions **(3mks)**

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10. Give two roles of soil microorganisms that are beneficial to crops. **(2mks)**

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11. State four biotic factors that influence crop production**.** **(4mks)**

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12. Explain how the properties of rainfall influence crop production. **(4mks)**

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13. Explain four ways in which the government policy improves agricultural production. **(4mks)**

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14. Give four conditions of the land which may make it necessary to carry out reclamation practices**.(4mks)**

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15. List three methods of treating water for use in the farm. **(3mks)**

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16. State three aspects of light that affect agriculture. **(3mks)**

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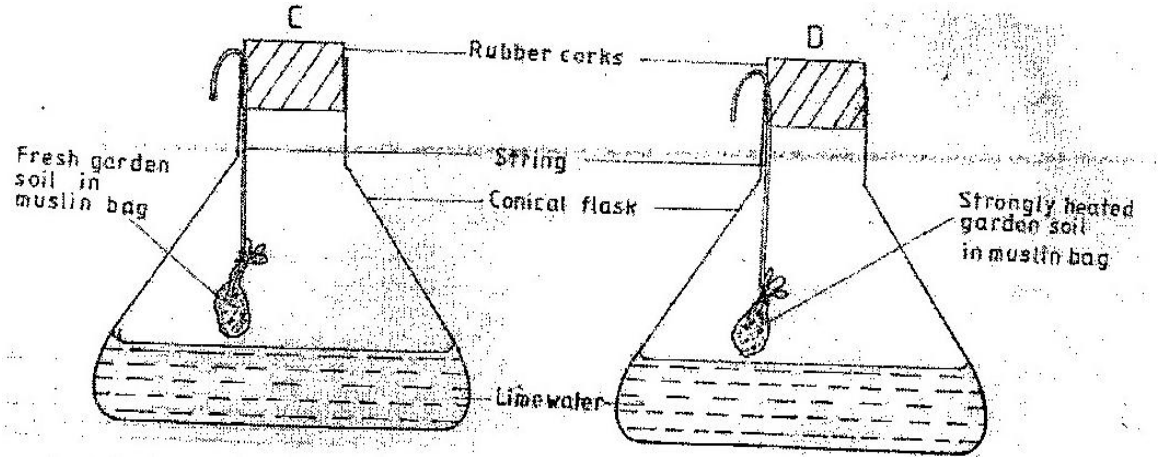
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SECTION B. (20 MARKS) ANSWER ALL QUESTIONS.

17. The diagram below shows a set-up of an experiment to study an aspect of soil. The setup was left undisturbed for five hours. Study it and answer the questions that follow.



a) What was the aim of the experiment. **(1mk)**

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b) State one observation that was made in each of the flask labeled C and D. **(2mks)**

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c) Give a reason for each of your answer in (b) above. (2mks)

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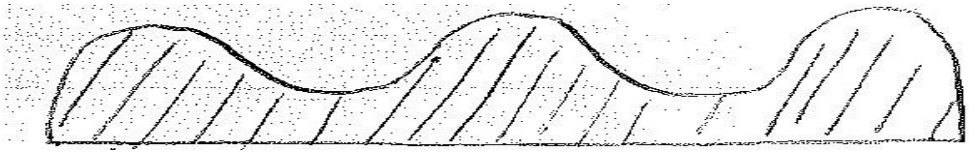
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18. Study the diagram below and answer question that follow.



a) Identify the tertiary operation above. **(1mk)**

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b) Give two importance of practicing the above tertiary operation**.** **(2mks)**

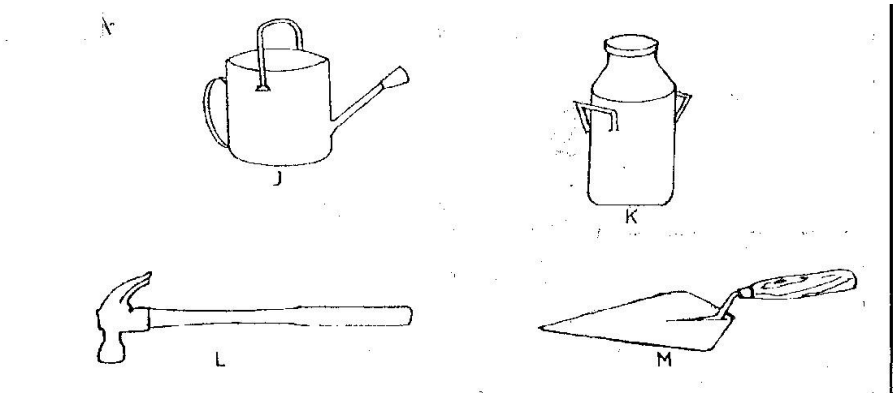
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19. The diagram below represents farm tools and equipments. Study them and answer the questions that follow.



a) Identify the tool / equipment labeled J,K and M.

J _____ **(1mk)**

K _____ **(1mk)**

M _____ **(1mk)**

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b) State one use of each of the tool equipment labeled K and L.

K **(1mk)**

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L **(1mk)**

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c) Give two maintenance practices for the equipment labeled K above. **(2mks)**

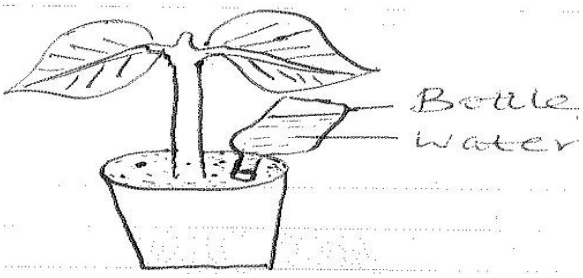
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20. The diagram below represents an irrigation system. Use it to answer the questions that follow.



a) Identify the irrigation system show. **(1mk)**

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b) Give four advantages of the system named in (a) above **(4mks)**

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SECTION C: (30MKS) ANSWER ALL QUESTIONS.

21.a) Give five main reasons why farmers prepare a seedbed before planting. **(5mks)**

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b) Name three ways of achieving primary cultivation. **(3mks)**

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c) State and explain three tertiary operations carried out in the farm to suit production of certain crops. **(6mks)**

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d) Define the term subsoiling as used in land preparation. **(1mk)**

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22 a) Outline five activities that maybe undertaken in organic farming. **(5mks)**

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b) State and explain five reasons for maintaining farm tools and equipment. **(10mks)**

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BRILLIANT STUDENTS

FORM 1 END TERM 3 SERIES 1 EXAMS

NAME: ……..

SCHOOL: ……...

ADM NO: …… **SIGN:** …… **DATE:** ……...

442-ART AND DESIGN

FORM ONE

TIME 2 HOURS

Instructions:

Answer all questions in all sections.

Write your name and admin No clearly in the spaces provided above.

Use relevant illustrators and diagrams as required.

FOR EXAMINER'S USE ONLY

SECTION	QUESTIONS	CANDIDATES' SCORE
A	25	
	75	
	TOTAL SCORE: 100	

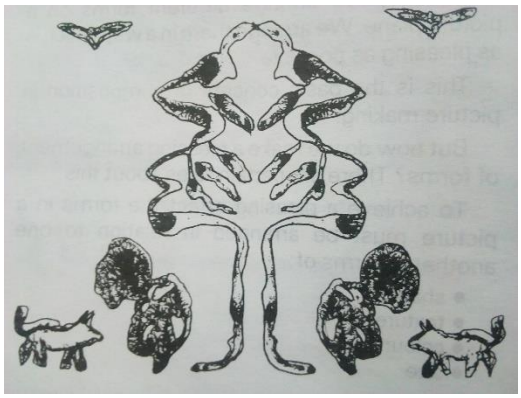
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SECTION A (ANSWER ALL QUESTIONS)

1.[a] Name the type of balance illustrated below **[1mks]**

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[ii] Name any other two types of balance apart from the one named above **[2mks]**

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b) Define texture **[2 mks]**

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[c] State and explain two types of texture **[4mks]**

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(d) Explain how rhythm and movement is achieved **(2mks)**

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[e]Using an illustration of a table, differentiate between:

[i]bird's and worm's eye view **(6mks)**

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[ii]One point and 2-point perspective **[6mks]**

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f. Describe the term drawing media **[2mk]**

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SECTION B

2[a] what is the similarity between drawing from memory and drawing from imagination? **(2mks)**

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[b]Name the drawing approach where one is required to study and record **[1mk]**

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3[a] Name and explain any three painting techniques **(6mks)**

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[b]List any two tools used in painting **[2mks]**

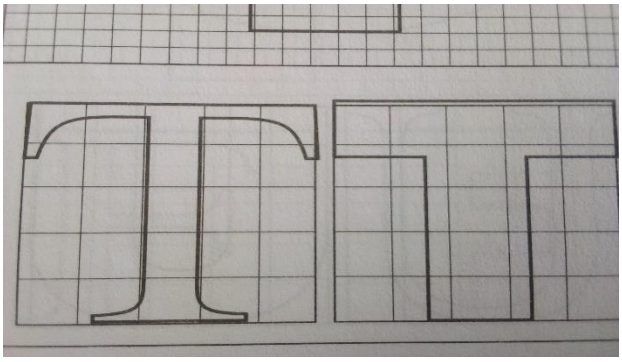
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4[a] using illustration bellow, identify, label and explain the difference between serif and san serif letters [4mks]



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[b]Using illustrations, explain the following as used in lettering:

[i] xh, [ii] ½ xh ,Ascenders and Descenders. **[4mks]**

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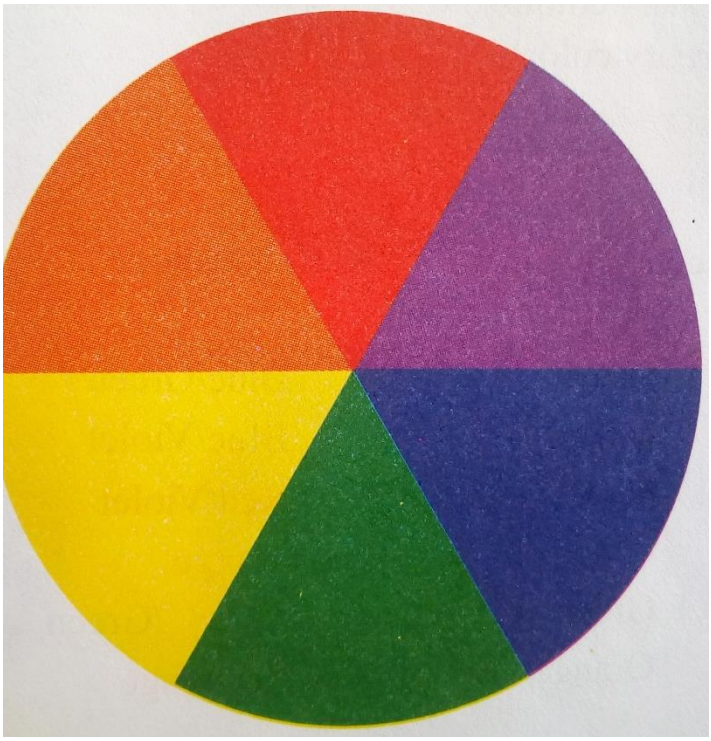
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5) Study the art work chart below:



Identify and leel the following on the colour wheel

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i. Primary colours. **(3mks)**

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(ii)Secondary colours **(3mks)**

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[iii]complimentary colours **[2mks]**

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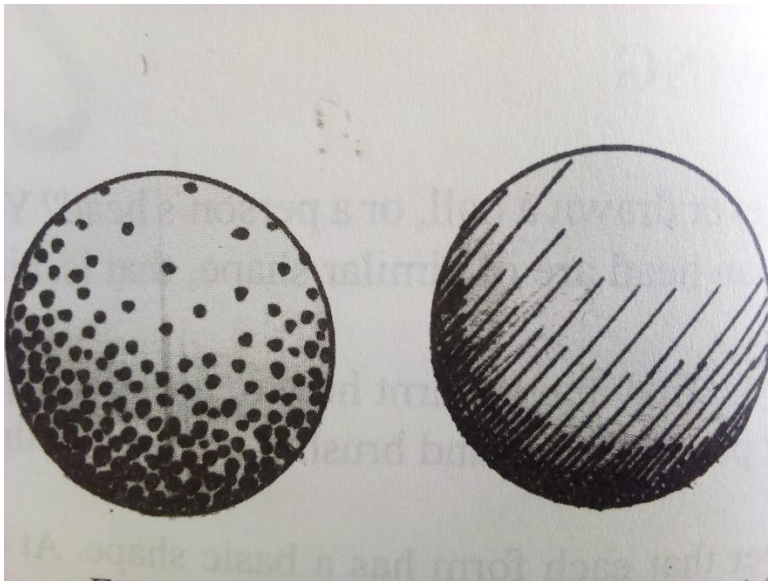
[iv]analogos colours **[2mks]**

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6. Study the drawings bellow and use it to answer the questions that follow



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(i) Identify and label the shading techniques used in the two drawings above **[2mks]**

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[ii]Apart from the two above, name any other two shading techniques that can be used to create 3D effect on a form **[2mks]**

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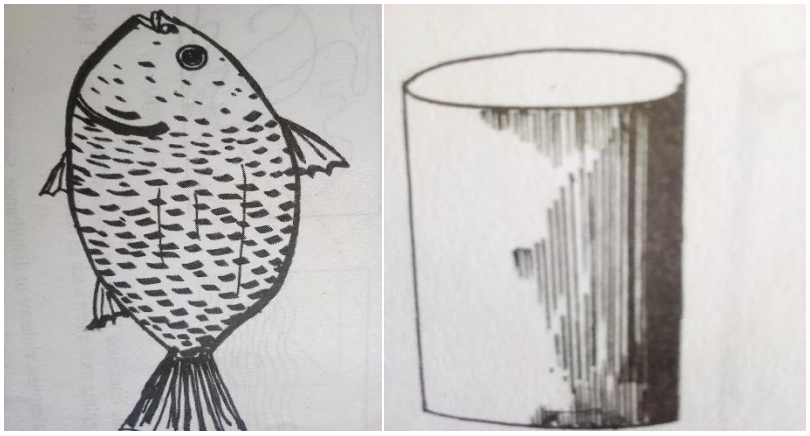
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7) Study the shapes below:

A B



(i) Name and identify the types of each shape. **(2mks)**

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(ii) Identify the most outstanding elements in A and B **(2mks)**

A:……..…….. B:……..……

8. [a]Give the origin and meaning of the word 'calligraphy" **(2mks)**

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(i) In anatomy of letters, explain and illustrate the following parts **[6mks]**

[i] Stem

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[ii]Cross bar

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[iii] Counter

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9. In the space bellow, use a calligraphic lettering of your choice to design the following extract

"Art is beauty and beauty is life' **(15mks)**

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10. use the space provided at the back to draw a" hand holding either a pen or pencil while writing or drawing respectively **[15mks]**

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FORM 1 END TERM 3 SERIES 1 EXAMS

NAME: ……..

SCHOOL: ……...

ADM NO: …… **SIGN:** …… **DATE:** ……...

231/1 BIOLOGY (QUESTION PAPER)

FORM ONE (1)

TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES:

- Write your **name** and your **admission number** in the spaces provided above.
- **Sign** and **write** the date of the examination in the spaces provided above.
- Answer **all** the questions in the spaces provided.

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QUESTIONS	MAXIMUM SCORE	CADNIDATE'S SCORE
1 – 26	**80**	

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1.Name the branches of biology that deal with study of: **(2mks)**

(a) Inheritance and variations

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(b) Chemical changes inside living organisms

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2. Name the cell organelles that would be abundant in:

a) White blood cells destroying pathogens **(2mks)**

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b) Palisade mesophyll cells

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3. (a) When observing a specimen through a light microscope, a student noted that the field of view was dark. Name 2 parts of the microscope that the student should adjust to make the field of view clear **(1mk)**

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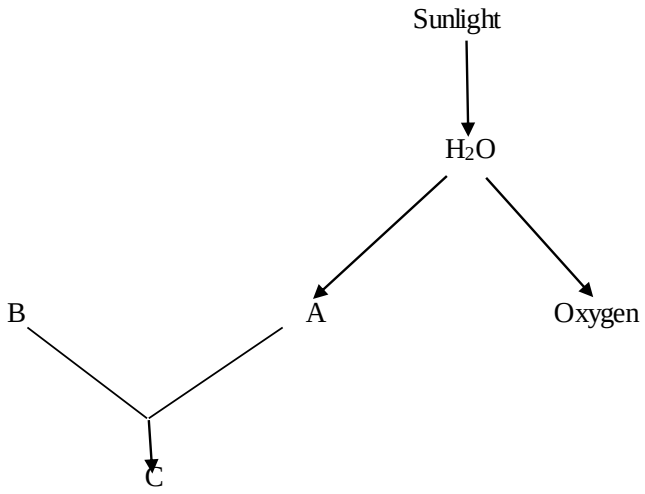
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(b) A specimen was magnified 1000 times by a light microscope whose eye piece lens magnification is X10. Calculate magnification of objective lens. **(2mks)**

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4. The flow diagram below represents a process of photosynthesis. Study diagram and answer the questions that follow.



(a) Name the substances labeled **(3mks)**

A ……

B ……

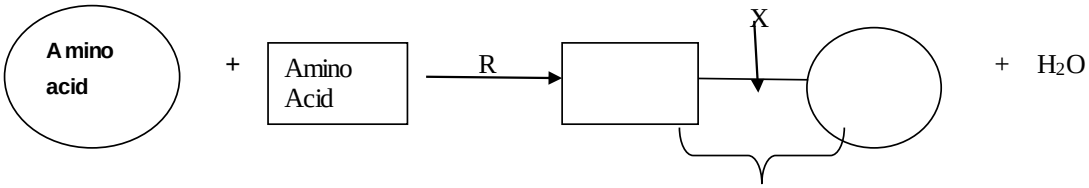
C ……

(b) Write an equation to show the process illustrated above **(1mk)**

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5. The following is a diagrammatic representation of protein synthesis. Study and answer the questions that follow.



(a) Name process R **(2mks)**

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(b) Where in the cell does R take place?

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(c) Name

(i) Product Q **(2mks)**

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(ii) Part X

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6. (a) Name an element which is a present in proteins but is not in carbohydrates **(1mk)**

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(b) State two functions of proteins in the human body **(2mks)**

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7. State the functions of the following cell structures. **(2mks)**

(i) Centriole

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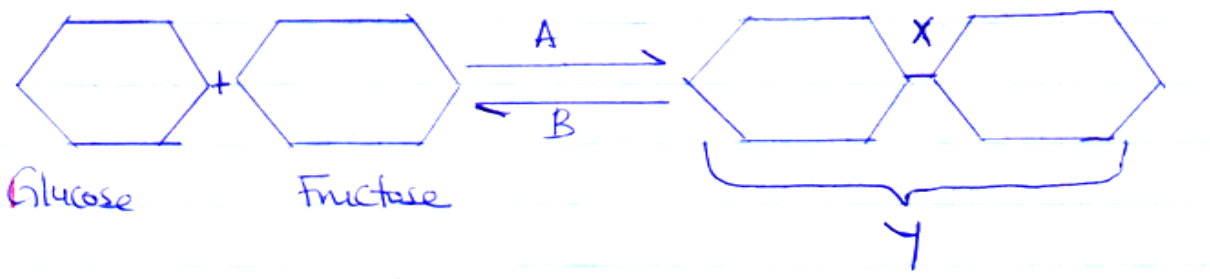
(ii) Contractile vacuole

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



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(a) What biological processes are represented by A and B **(2mks)**

A

……

B

……

(b) Identify the product Y **(1mk)**

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9. A solution of sugarcane was boiled with hydrochloric acid; sodium hydrogen carbonate was added to the solution which was then heated with Benedict's solution. An orange precipitate was formed

(a) Why was the solution boiled with hydrochloric acid? **(1mk)**

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(b) To which class of carbohydrates does solution of sugarcane belong? **(1mk)**

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(c) State the form in which carbohydrates are stored in **(2mks)**

(i) Plants

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(ii) Animals

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10. Explain the importance of each of the following during the process of digestion in human beings

(a) Teeth **(1mk)**

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(b) Saliva **(2mks)**

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11. State two ways in which active transports differs from diffusion. **(2mks)**

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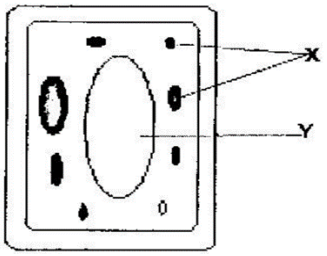
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12. The figure below is a diagram of a cell as seen under the light microscope.



(a) Name two structures that shows this is a plant cell and not an animal cell. **(2mks)**

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b) Name one chemical compound that is only found in the structure labeled X. **(1mk)**

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c) Name the fluid in the part labeled Y . **(1mk)**

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d) Other than through enzymatic action, how else can a disaccharide be hydrolyzed to its constituent monosaccharides. **(1mk)**

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13. Give two skills gained by a student learning Biology. **(2 marks)**

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14. Name the unit of classification that has the least organisms. **(1 mark)**

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15. What is the importance of using a hand lens in classification of organisms. **(1 mark)**

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16. What characteristics of living organisms is represented by the following characteristics:

a) A cat producing kittens. **(1mk)**

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b) A girl dropping a hot pan. **(1mk)**

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17. a) An electron microscope has a much greater resolving power than a light microscope. Explain the meaning of the term resolving power. **(1 mark)**

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b) Give a reason why an electron microscope cannot be used to study life specimen. **(1 mark)**

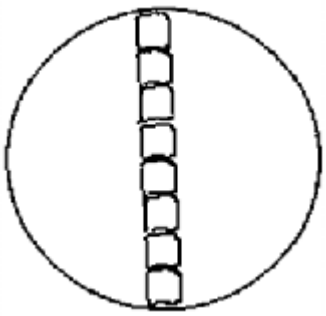
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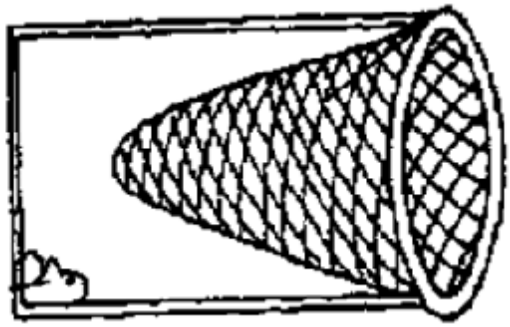
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18. During a practical lesson to estimate the size of a cell, using the sketch below which some students observed, calculate the length of one cell in micrometers given that the field of view was 8mm wide. **(3 marks)**



19. The diagram below represents a certain apparatus used by biology students.



(i) Identify the apparatus above. **(1 mark)**

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(ii) State the function of the apparatus named in b) (i) above. **(1 mark)**

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20. Black jack (Bidens pilosa) belongs to the family Compositae. What is it's:

Genus. **(1 mk)**

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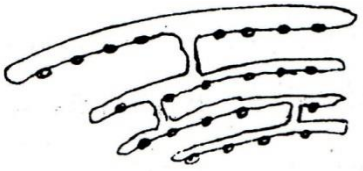
Species. **(1 mk)**

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21. i) Identify the organelle represented by the diagram below. **(1 mk)**



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ii) State the function of the organelle identified in 21(i) above. **(1 mk)**

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22. State the importance of each of the following process in living things. **(2 mks)**

i. Respiration

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ii. Gaseous exchange

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23. Give a reason why each of the following steps are followed when preparing cross sections of a leaf for examination under a microscope: **(2mks)**

a) Cutting very thin section

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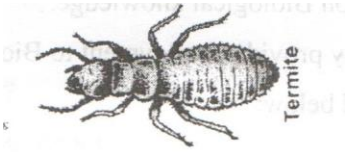
b) Using sharp razor blade (scalpel) during cutting.

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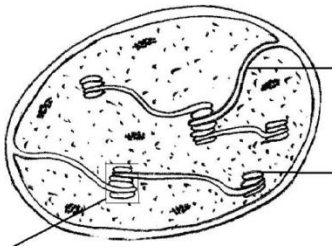
24. Calculate the magnification of the drawing of the termite below given that the actual length of the termite is 0.9cm long . Show your working **(2mks)**



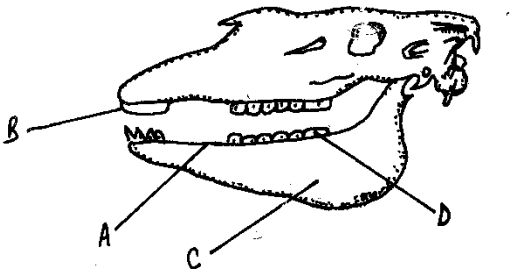
25. Below is a structure of chloroplast. Label on the diagram using the letters provided, the parts where the following processes of photosynthesis take place: **(2mks)**

(i) Photolysis (use letter P)

(ii) Carbon IV oxide fixation (use letter C)



26. Study the figure below and answer the questions that follow.



a) Name the parts labeled B, C and D **(3 mks)**

B: ……

C: ……

D: ……

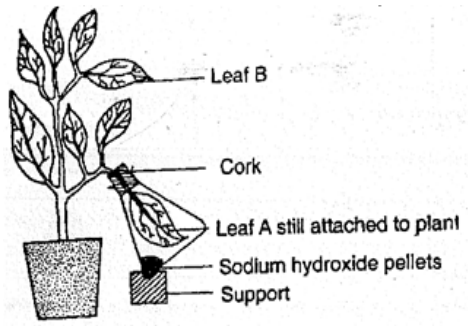
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b) State the function of part labeled A. **(1 mk)**

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27. Study the diagrams below and then answer the questions that follow.



(a) What was the aim of the experiment? **(1mk)**

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(b) Explain why leaf A is still attached onto the plant. **(1mk)**

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(c) What property of sodium hydroxide enables it to carry out its intended role? **(1mk)**

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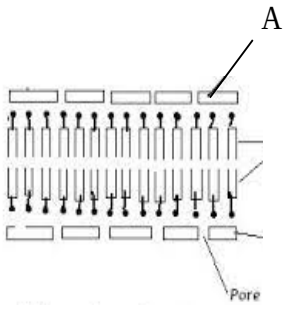
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(d) In the test for starch in either leaf A or B, name the role played by methylated spirit **(1mk)**

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28. The diagram below represents a cell structure. Study it and answer the questions that follow



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a) Name the cell structure shown above. **(1mk)**

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b) State two functions of the organelle**.** **(2mks)**

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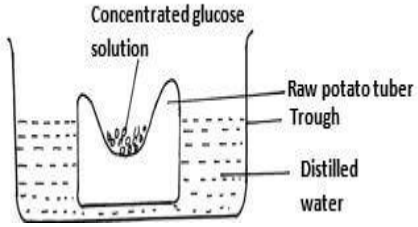
c) Name the building blocks part labeled A. **(1mk)**

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29. A group of students set up an experiment to investigate a certain physiological process. The set up was as shown in the figure below.



After sometimes the students observed that the level of the glucose solution had risen

a) Name the physiological process being investigated. **(1mk)**

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b) Account for the rise in the level of salt solution in the experiment. **(2mks)**

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c) Suggest the results that the students would obtain if they repeated the experiment using a piece of boiled potato tuber. **(1mk)**

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30. When testing for starch in a leaf, explain the reasons for doing the following: **(3mks)**

i) Dipping the leaf in boiling water

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ii) Boiling methylated spirit indirectly in water bath

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iii) Washing the leaf in water after boiling in methylated spirit

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BRILLIANT STUDENTS

FORM 1 END TERM 3 SERIES 1 EXAMS

NAME: ……

SCHOOL: ……

ADM NO: …… **SIGN:** …… **DATE:** ……

BUSINESS STUDIES (QUESTION PAPER)

FORM ONE

TIME 2 HOURS

INSTRUCTIONS

- Write your **NAME, SCHOOL** and **INDEX NUMBER** in the spaces provided.
- Answer **ALL** questions provided in the spaces provided.
- This paper consists of **9 printed pages** and **25 questions.**

FOR EXAMINERS USE ONLY

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

17	18	19	20	21	22	23	24	25	TOTAL

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1.Highlight **four** difficulties faced in satisfaction of human wants. **(4 marks)**

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2.Highlight **four** factors under economic environment that positively affects the business. **(4 marks)**

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3.Zeraki Secondary School will wish to change from an enclosed office to an open office. Highlight **four** advantages that will accrue from this. **(4mks)**

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4.Highlight **four** roles of an entrepreneur to the economy of a country. **(4mks)**

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5.Outline **four** ways in which the legal political environment can influence the activities of a business. **(4mks)**

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6.Give **four** reasons why shelter is a basic human want. **(4mks)**

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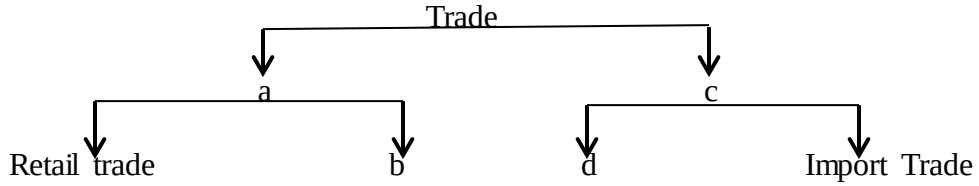
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7.Complete the following diagram **(4mks)**



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8. State the level of production that matches the following occupations **(4mks)**

	Occupation	Level of production
a.	Carpentry	
b.	Lumbering	
c.	Fishing	
d.	Banking	

9. Mention **four** reasons why people engage in business. **(4mks)**

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10. State **four** circumstances under which cash may be used as a means of payment. **(4mks)**

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

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12. Outline **four** consequences of a poor filing system in an organization. **(4mks)**

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13. Highlight **four** benefits of a business plan to an entrepreneur. **(4mks)**

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14. Identify **four** ways of generating a business idea. **(4mks)**

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15. Outline **four** reasons why Business Studies should be offered as a discipline in secondary schools. **(4 marks)**

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16. Define the following terms **(4 marks)**

(a) Scarcity

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(b) Choice

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(c) Scale of preference

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(d) Opportunity cost

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17. Outline **four** personal attributes of an office staff. **(4 marks)**

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18. State **four** ways in which businesses may maintain a healthy business environment. **(4 marks)**

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19. State **four** natural sources of energy in Kenya**. (4mks)**

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20. The statement below described various types of goods. Identify the type of goods best described by each statement. **(4mks)**

a) Owned by the government on behalf of its citizens. _____

b) Goods that are capable of directly satisfying human want. _____

c) Goods that are used to make other goods. _____

d) Goods that get spoilt within a very short time. _____

21. Identify **four** reasons why many youths in urban centre are starting hawking businesses. **(4mks)**

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22. Labour is one of the key inputs in production. List down four possible rewards of labour. **(4mks)**

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23. Outline five new trends in the office organization today. (4mks)

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24. Highlight four advantages of hire-purchase to a buyer. **(4mks)**

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25. The document shown was issued by Chipukizi Traders to Mzae

Chipukizi Traders
Box 21255 Kisii

To. Mzae
Box 28440 Keroka

No. 45012
Date: 20th June 2010

	Amount Sh	Cts
	15,000	00
	15,000	00

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Outline **four** circumstances under which the above document may be issued. **(4marks)**

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BRILLIANT STUDENTS

FORM 1 END TERM 3 SERIES 1 EXAMS

NAME: ……

SCHOOL: ……..……..

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

CHEMISTRY (QUESTION PAPER)

FORM ONE (1)

Time: 2 HOURS

Instructions to Candidates

(a) Write your name and admission number in the spaces provided

(b) Answer **all** questions in this paper

(c) All working must be clearly shown in the spaces provided in this paper

(d) Non-programmable silent electronic calculators may be used

(e) This paper consists of **9 printed pages**

(f) Check that the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

(g) Candidates should answer the questions in English.

For Examiners' use Only

Questions	Total Score	Candidate's Score
1 – 29	80	

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1.State **two** differences between liquids and gases **(2 Marks)**

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2.State **two** long term effects of drug abuse **(2 marks**)

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3.

a) Air is considered a mixture. Explain. **(2 Marks)**

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b) Complete the table below on the components of an air sample **(2 Marks)**

Gas	**% Volume in air**
Nitrogen	
	20.9%
Argon	
	0.03%

4.State the role of the following parts of apparatus used in the distillation of a mixture of water and ethanol:

a) Fractionating column **(1 Mark)**

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b) Glass beads **(1 Mark)**

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c) On what property does the separation of the mixture mentioned above depend on? **(1 Mark)**

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5. Dry ice is preferred to ordinary ice as a refrigerant. Explain **(2 Marks)**

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6.The table below shows pH values of some substances.

Solution	A	B	C	D
pH values	13	9	1	6.5

Which solution:

a) Would produce carbon (IV) oxide gas when added to a sample of copper (II) carbonate? **(1 Mark)**

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b) Would relieve the irritation experienced by a beekeeper stung by a bee? **(1 Mark)**

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7.Phosphorous smoulders in air to produce two oxides.

a) Name the two oxides **(2 Marks)**

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b) State the nature of the solution formed when any of the oxides you have named dissolve in water **(1 Mark)**

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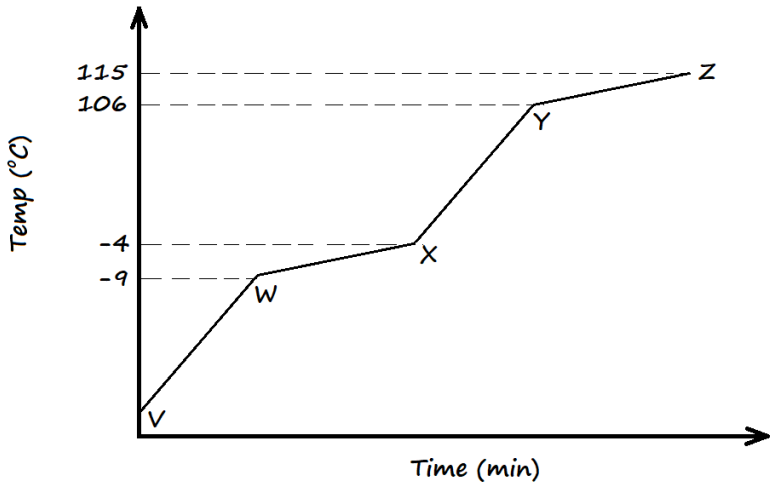
8.What is an acid-base indicator? **(1 Mark)**

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9. The diagram below represents the heating curve of a substance in the laboratory. Study it and use it to answer the questions that follow.



a) At what temperature does the substance begin to boil? **(1 Mark)**

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b) The sample was analysed and found to be that of water.

i) Comment on its boiling point **(1 Mark)**

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ii) Comment on its melting point **(1 Mark)**

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10. Complete the following word equations: **(3 Marks)**

a) Calcium + Nitric acid →

b) Magnesium + Steam →

c) Sodium hydroxide + sulphuric acid →

11.

a) On what principle does paper chromatography work? **(1 Mark)**

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b) A fountain pen cannot be used to mark the baseline in paper chromatography. Explain **(1 Mark)**

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12. Describe how one can test for the following in a Chemistry laboratory.

a) Water **(2 Marks)**

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b) Carbon (IV) oxide **(2 Marks)**

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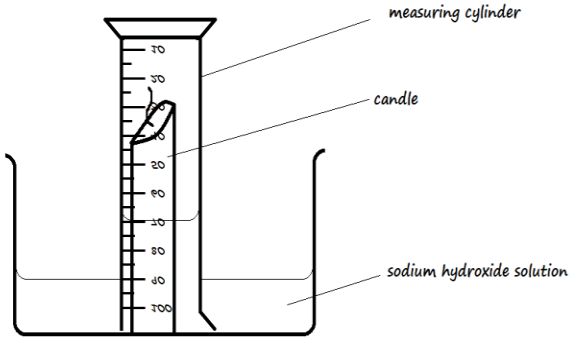
13. Changes are classified as being temporary physical changes, temporary chemical changes, or permanent chemical changes. Classify the following processes by the criteria mentioned above:

a) Heating of lead (II) nitrate crystals to produce brown fumes **(1 Mark)**

b) Heating white zinc oxide to form a yellow substance **(1 Mark)**

c) Obtaining kerosene from crude oil **(1 Mark)**

14. A candle was burnt using the setup below. The initial volume of solution in the inverted measuring cylinder was at the 90cm^3 mark. After the experiment, when the setup had cooled, the new level of solution was at the 70cm^3 mark.



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a) Use the stated results to calculate the percentage of oxygen used from the air by the burning candle. **(2 Marks)**

b) What would be the effect on percentage calculated if the final volume is recorded when the apparatus is hot? **(1 Mrk)**

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c) Why was sodium hydroxide used, and not water? **(1 Mark)**

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15. A clean iron nail was wrapped using a strip of magnesium ribbon and left exposed in saline conditions for two days.

a) State and explain the observation made after two days. **(2 Marks)**

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b) State and explain the observation that would be made if the iron nail was wrapped with a strip of tin. **(2 Marks)**

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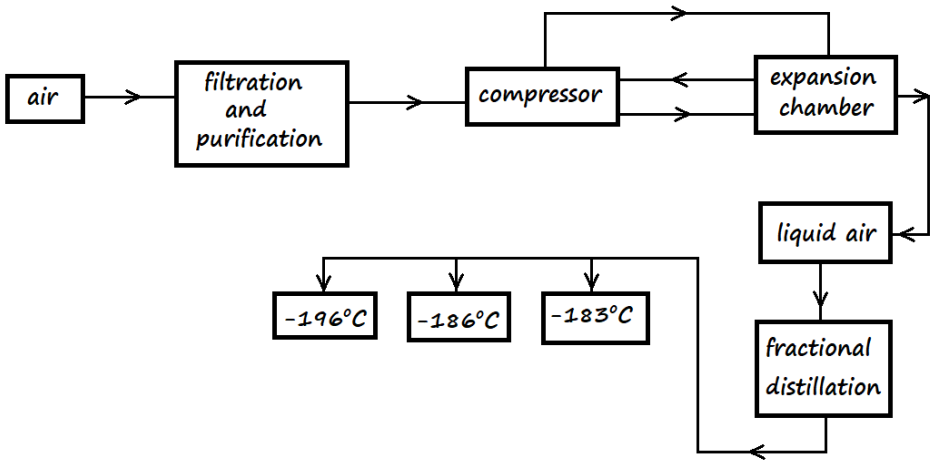
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16. The flow diagram below represents the stages involved in the large-scale fractional distillation of air.



a) Identify the substance that is removed at the filtration and purification stage **(1 Mark)**

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b) Carbon (IV) oxide and water are removed before the air sample is compressed. Explain **(1 Mark)**

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c) Which component is collected at -196°C? **(1 Mark)**

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17. An agricultural officer recommended the addition to calcium oxide to a soil sample. State two benefits of adding the calcium oxide. **(2 Marks)**

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18.

a) Write two word equations for the reactions that occur when magnesium burns in air. (2 Marks)

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b) If one of the products is dissolved in water, a colourless solution is produced which turns red litmus paper blue while blue litmus paper remains blue. Write a word equation for the reaction that produces this colourless solution. **(1 Mark)**

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19. Define the following terms:

a) Atom **(1 Mark)**

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b) Molecule **(1 Mark)**

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20. Identify the elements in the following compounds, and for each element indicate its symbol

a) Calcium hydrogen carbonate **(2 Marks)**

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b) Silver chloride **(1 Mark)**

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21. When a mixture of copper (II) oxide and magnesium metal is heated together, a reaction takes place but when a mixture of magnesium oxide and copper metal is heated, no reaction takes place.

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Explain this observation. **(2 Marks)**

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22. Describe how a mixture of iron (III) chloride, sand, and sodium chloride can be separated to obtain pure samples of each substance. **(3 Marks)**

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23. Name the techniques that are used to perform the following processes:

a) A mixture of coloured dyes **(½ Mark)**

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b) Extracting dye from coloured leaves **(½ Mark)**

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24.

a) What is a laboratory? **(1 Mark)**

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b) State **two** apparatus used in measuring:

i) Accurate volumes of liquids **(2 Marks)**

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ii) Approximate volume of liquids **(2 Marks)**

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25. State three benefits of the knowledge of Chemistry in the society. **(1 Mark)**

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26. State the functions of the following parts of a Bunsen burner:

a) Air hole **(1 Mark)**

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b) Collar **(1 Mark)**

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c) Base **(1 Mark)**

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27. To extract oil from groundnuts, a student crushed some groundnuts and added propanone while crushing. He later decanted the mixture and placed the liquid sample out in the sun.

a) Why did he crush the groundnuts? **(1 Mark)**

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b) Why was the liquid bit of the sample placed outside in the sun? **(1 Mark)**

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c) How is the final substance proved to be oil? **(1 Mark)**

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28. When hydrogen gas is passed over a heated sample of copper (II) oxide, the solid turns from black to brown substance.

a) Write an equation for the reaction between hydrogen gas and heated copper (II) oxide. (1 Mark)

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b) Name the type of reaction taking place between the hydrogen gas and copper (II) oxide. **(1 Mark)**

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BRILLIANT STUDENTS

FORM 1 END TERM 3 SERIES 1 EXAMS

NAME: ……

SCHOOL: ……

ADM NO: …… **SIGN:** …… **DATE:** ……

COMPUTER STUDIES 451/1

FORM ONE (1)

TIME 2 Hours.

Instructions to Candidates

- Write your Name and Adm No. in spaces provided above.
- Answer **ALL** the questions.

1. Give four reasons to justify why many computer users today prefer saving their documents in the google drive **(4mark)**

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2. Briefly describe four factors to consider when choosing a printer **(4marks)**

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3. Describe four ways employed by the operating system to protect its programs, data and information **(4marks)**

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4. Describe four application areas of magnetic stripe recognition technology **(4marks)**

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5. A storage disk has a capacity of 10GB

(i) Calculate the precise number of characters that can be stored by the disk **(2marks)**

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(ii) Given that 16GB memory card was used to back up the data in the storage disk calculate the remaining space in the memory card in megabytes **(2marks)**

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6. Describe three main elements of the central Processing Unit **(3marks)**

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7. List four limitations of cathode ray tube monitors **(4marks)**

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8. State the functions of the following disk management operations **(4marks)**

(i) Defragmentation

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(ii) Partitioning

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(iii) Formatting

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(iv) Backing up

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9. Identify the interfacing cables in the table below **(6marks)**

Cable	Name	Cable	Name
			
Cable	Name	Cable	Name
			
Cable	Name	Cable	Name
			

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10. Identify four resources under the control of the operating system **(4marks)**

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11.

(i) Describe the following concepts as used in computer setup and cabling **(2marks)**

- Master/slave configuration

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- Hot swapping

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(ii) Give three controllers used to connect a hard disk to the motherboard **(3marks)**

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12.

(i) Kavala is a computer student from Naiveté girls she bought a computer for her personal use later she released that her computer memory was very low and therefore need to be upgraded. List four factors that Kavala must consider before purchasing memory modules for upgrade **(4marks)**

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(ii) Mention four advantages of solid-state storage devices **(4marks)**

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13.

(i) Give two functions of the graphic adapters **(2marks)**

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(ii) List four examples of softcopy output devices **(4marks)**

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(iii) State four factors used to measure the performance of a computer monitor **(4marks)**

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14.

(i) Mention four characteristics of the fifth generation computers **(4marks)**

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(ii) What is artificial intelligence **(2marks)**

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15. Many financial institutions and business enterprises in the World today operate on electronic platforms. State five challenges they usually experience when using this approach **(5marks)**

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16.

(i) List two devices that can be connected to the computer system unit via VGA cable **(2marks)**

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(ii) Mention three functions of the power supply unit **(3marks)**

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(iii) Give two reasons to justify why USB interfaces are becoming popular with modern computing devices **(2marks)**

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17. Mention five measures that should be observed in a computer laboratory to protect the computer (**5marks)**

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18. ICT can be very useful in the management of farms. Describe five ways in which ICT can be used to management modern agricultural farms **(5marks)**

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19. Describe how the operating system discharge the following functions

(i) Error handling **(2marks)**

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(ii) Job scheduling **(2marks)**

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20. It is advisable to have proper light within a computer lab to avoid headache, fatigue and stress. State four safety precautions that one need to observe to prevent eye-related issues or ailments **(4marks)**

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BRILLIANT STUDENTS

FORM 1 END TERM 3 SERIES 1 EXAMS

NAME: ……

SCHOOL: ……

ADM NO: …… **SIGN:** …… **DATE:** ……

CRE (QUESTION PAPER)

FORM ONE (1)

TIME: 2 HOURS

INSRUCTIONS; answer all the questions

1 a) Give **seven** reasons that qualify the bible as the word of God. **(7 mks)**

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b) Identify **seven** reasons why human beings are considered a special creation of God **(7mks)**

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2 a) Discuss the background to the call of Abraham. **(7 mks)**

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b)Give the relevance of God's promises to Abraham to Christians today. **(6 mks)**

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c) Identify **six** challenges that Christians face while practising their faith in Kenya today. **(6 mks)**

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3 a) Explain the importance of the Ten plagues to the Israelites. **(6mks)**

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b) List five commandments given to the Israelites that teach on how to relate to one another **(5mks)**

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c) How did God show His Mercy to the Israelites during the exodus? **(7 mks)**

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4 a) Outline **six** achievements of King Solomon as a king of Israel. **(6 mks)**

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b) Outline **five** promises of God to David through prophet Nathan **(5mks)**

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c) Give five activities of King Jeroboam that made the Israelites in the Northern Kingdom turns away from God **(5mks)**

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5 a) Describe the problems faced by prophet Elijah in Israel. **(7mks)**

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b) Mention **six** ways in which Christians can encourage true worship of God today. **(6mks)**

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6a) Identify **seven** occasions when prayers are offered in traditional African communities **(7mks)**

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b)What requirements did one have to fulfil to become an elder in Traditional African Societies? **(6mks)**

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c)Mention **Seven** factors that influence the naming of children in African Traditional Society **(7 mks)**

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BRILLIANT STUDENTS

FORM 1 END TERM 3 SERIES 1 EXAMS

NAME: ……

SCHOOL: ……

ADM NO: …… **SIGN:** …… **DATE:** ……

DRAWING AND DESIGN (QUESTION PAPER)

FORM ONE

TIME 2½ HOURS

FOR EXAMINERS USE ONLY

1	2	3	4	5	6	7	8	9	10	11	12	13	14	TOTAL

INSTRUCTIONS TO CANDIDATES.

You should have the following for this examination:

- Drawing instruments
- 3 sheet of drawing paper size A3

This paper consists of THREE sections A, and B.

Answer ALL the questions in section A and B.

Questions in section A must be answered on the spaces provided.

Questions in section B should be answered on the A3 drawing papers provided.

All dimensions are in millimeters unless otherwise stated.

Candidates may be penalized for not following the instructions given in this paper.

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SECTION A (55 marks)

Answer all questions in this section

1.State two classes of drawings and state one application of each. **(4 marks)**

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2.a) Give two reasons why a pencil to be used with a pair of compass should have a chisel point. **(2mks)**

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b) State the functions of the following drawing instruments: **(2mks)**

(i) A pair of compass:

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(ii) T-square:

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3. (a) Sketch conventional symbols of the following:- **(5mks)**

i. First angle projection.

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ii. Third angle projection

iii. Square

iv. Diameter

v. Centre line

(b) State three main factors that contribute to quality drawing **(3mk)**

4.Draw a circle whose radius is 27 mm and name any six parts. **(3marks)**

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5. (a) Use sketches to illustrate different sizes of drawing papers. **(3 marks)**

(b) Explain the properties of materials listed below **(6 mks)**

Properties	Explanation
Brittleness	
Toughness	
Tensile strength	
Plasticity	
Elasticity	
Hardness	

(c) Give one reason why note are sometimes used to accompany drawings. **(1mark)**

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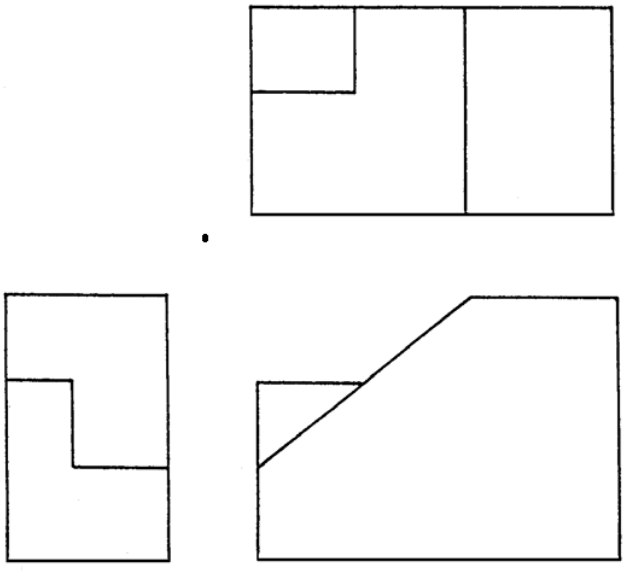
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6. (a) State the uses of the lines listed below. (4 marks)

type of line	*Description*	*Where used*
	Thin short dashes	
	Thin continuous	
	Thin chain line	
	Thin continuous line	
	Bold continuous	
	Bold broken line (with ends turned to indicate direction of viewing).	
	Bold continuous irregular line	
	Thin continuous line with a zig zag in it.	

7 Two views of a work bench are shown in first angle projection. From the view make one point perspective drawing when the vanishing point is 30mm above and 60mm to the right of the bench. **(6mks)**



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8 . With the help of a neat sketch show how to circumscribe circle to a scale triangle **(5mks)**

9 (a) Give a reason why foreshortening is done in oblique drawing **(1mks)**

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(b) Use sketches to illustrate the different between two and three dimensional drawings. **(4mks)**

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10 Construct a simple plan scale of 4:3 long enough to measure up to 60mm **(7mks)**

11 Construct a triangle when given hypotenuse as 67mm and one side as 43mm **(7mks)**

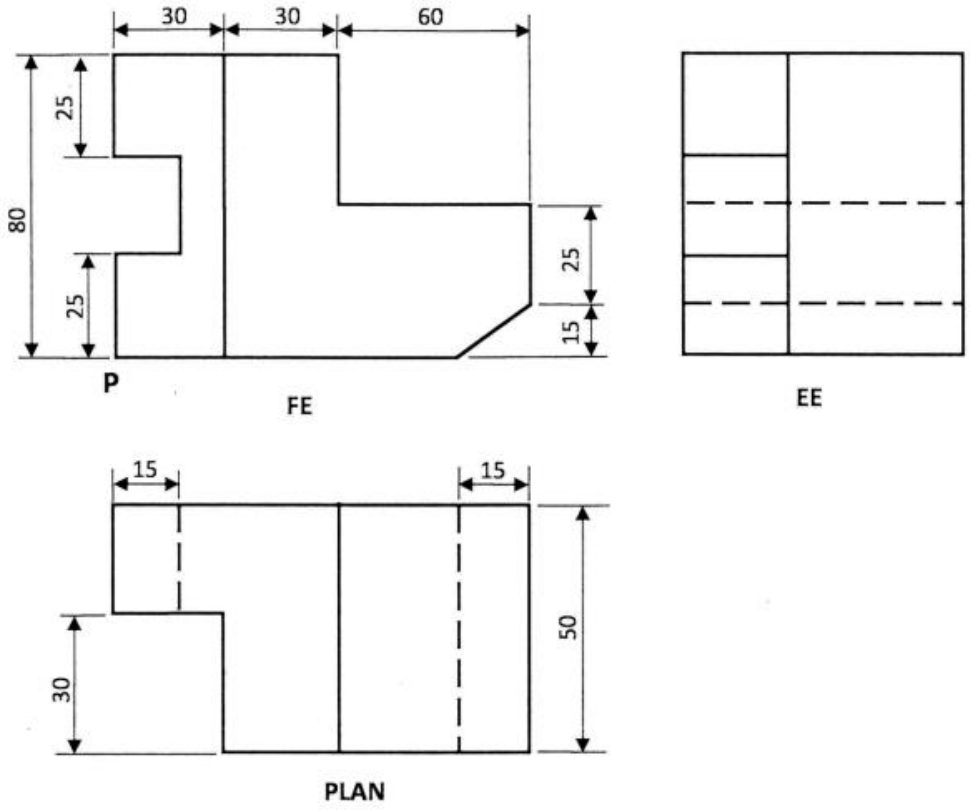
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12 Construct a trapezium when given two parallel sides as 75mm and47mm and a vertical height of 47mm and one included angle as 75^0 **(7mks)**

Section B (45 marks)

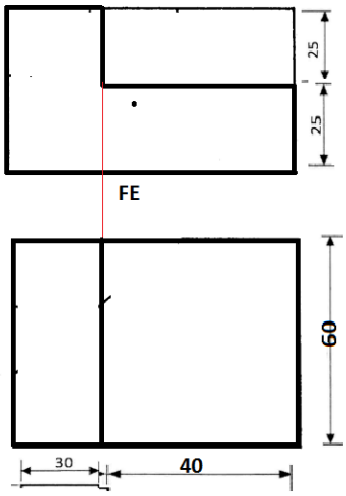
Answers all questions

13 Two views of a machine part are given in figure 2. Draw isometric view of the block taking X as the lowest point. **(15mks)**



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14 Two views of a machine part are given in figure3. Draw two-point perspective of the block. **(15mks)**



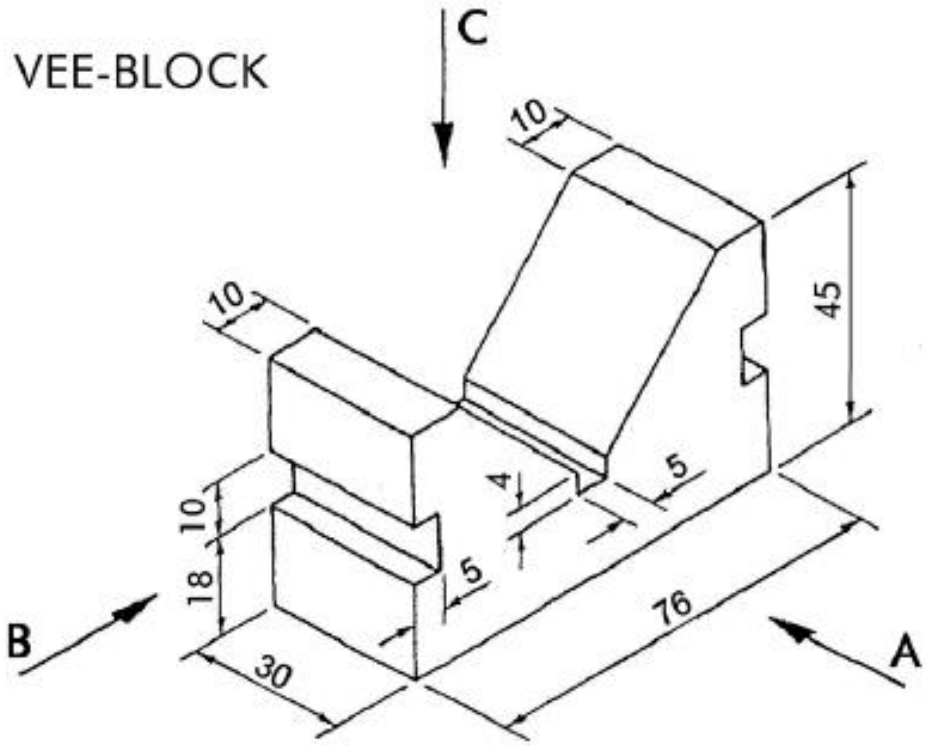
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15 Figure below show a machine block drawn in isometric. Draw the following: **(15 marks)**

a). front elevation as seen in the direction of arrow "A"

b). end elevation as seen in the direction of arrow "B"

c) the plan as seen in the direction of arrow "C"



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BRILLIANT STUDENTS

FORM 1 END TERM 3 SERIES 1 EXAMS

NAME: ……

SCHOOL: ……

ADM NO: …… **SIGN:** …… **DATE:** ……

ENGLISH (QUESTION PAPER)

FORM ONE (1)

TIME: 2½ HOURS

INSTRUCTIONS TO CANDIDATES

1) Write your name and admission number in the spaces provided above.
2) Answer **all** questions in this question paper in the spaces provided.
3) Check to ascertain that all pages are printed as indicated and that no question is missing.

For Examiner's Use Only

	QUESTIONS	MAXIMUM SCORE	CANDIDATE'S SCORE
1.	Writing	20marks	
2.	Cloze test	10marks	
3.	Oral skills	15marks	
4.	Comprehension	20marks	
5.	Oral literature	20marks	
6.	Grammar	15marks	

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1.FUNCTIONAL WRITING - 20 MARKS.

A friend of yours who was your classmate in primary school went to a different secondary school from yours. Write to him/her a letter about your new school and your new experience in secondary school.

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2.CLOZE TEST - 10 MARKS

READ THE PASSAGE BELOW AND THEN FILL IN THE BLANK WITH THE MOST APPROPRIATE WORD.

Initiation songs are songs that __1_____ sung during 2_____ of passage. In African traditional culture, transition from one stage of life to the next calls for_3_____. Hence there are initiation songs_4_____ during ceremonies to mark the transition from childhood to adulthood. There are community specific rituals, e.g the Luo 5_____ the front teeth ,but most other 6_____ in Kenya circumcise the boys .This is the _7_____ why most initiation songs are synonymous _8_____circumcision. But it is important to note that wedding songs and funeral songs are also part _9_____initiation songs as they mark important transitions stages_10_____ individuals' life.

3.ORAL SKILLS 15 MARKS)

A.) Identify the silent letters in the following words.

a) Fasten
b) Ballet
c) Chalk
d) Build

B.) Provide another word pronounced as each of the following words.

a) Fined
b) Flu
c) You
d) Alter
e) Here
f) doe

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C.) Pair up the words in column A with those in column B according to the pronunciation of letter 's'

A	B
Mats	confusion
Rise	smoke
Sure	abuse
Pleasure	sugar

4.COMPREHENSION – 20 MARKS.

Read the following comprehension and answer the question that follow.

THE DANGERS OF ABORTION.

If you have been thinking of having an abortion, there are a number of different factors that you should consider beforehand. Whether or not having an abortion is morally corrects not the issue here. While the majority of studies conducted about the dangers associated with abortion are then scrutinized and debated, there is a variety of different known factors that you might experience after having an abortion. Each of these factors may be negative to your health, so it is important to take each of one into consideration before you decide to go for abortion.

One of the most common effects of abortion is inflammation of the cervix. Although this may sound like a very harmless insignificant side effect, the truth is that it is not. In fact, the result of this side effect tends to be very severe. One of the things that it can lead to is pelvic inflammatory disease, which can eventually damage your pelvis. It can also lead to cervical cancer later on in

life. It is estimated that about three thousand women die from cervical cancer in the United State each year.

Infertility is another very common effect of having an abortion. This is especially something that you might experience if you decide to have more than one abortion. In fact, abortion can be held as the reason for at least thirty percent of women experiencing problems with infertility. Another problem that having an abortion may cause complications during a later pregnancy. Some of the challenges that that may face should you decide to get pregnant after an abortion include premature births, an increased chance of having a miscarriage, low infants birth weights, and even infant death. If having children in the future is something that you are looking forward to, chances are that you might want to consider having an abortion because of these dangers.

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Of course, you should keep in mind that having an abortion does not make it impossible for you to give birth to healthy children in future. It is important to make sure that you inform your gynaecologist that you have had an abortion in the past once you are diagnosed as pregnant.

Majority of the time, abortions are performed illegally. Although this may sound very appealing to you, the truth is that such abortions are often performed by in experienced doctors. This can lead to infections, The inability to stop bleeding, and even death among some women

The most common but rarely thought of danger associated with having an abortion is that emotional side effect. Feelings of gilt, anger, hurt, and so much more can linger for years. If you experience these side effects, you might require the attention of a phychologist or counsellor.

QUESTIONS

(a) Whom do you think the author of this article targets. **(2Marks)**

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b) Why is it important to consider some factors before going for an abortion? **(2Marks)**

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(c) In note form, highlight the dangers of abortion as brought out in the passage. **(2Marks)**

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(d) What are the possible results of inflammation of the cervix? **(2Marks)**

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(e) Do you think the author supports abortion? Why? **(2Marks)**

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(f) Who is a gynaecologist? **(2Marks)**

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(g) The fact that most abortions are performed illegally sounds appealing to most people. Why? **(2Marks)**

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(h) What advice is given to those who consider having children in future? (**2Marks)**

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(i)Apart from a gynaecologist, mention another remedial expert mentioned in the passage. **(1mark)**

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5.ORAL LITERATURE **(20 Marks)**

Read the following narrative and answer the set questions that follow.

Once upon a time, Hare and Hyena lived together as friends. Hare did all the house work while Hyena did all the tasks outside the home. Hare, however, was getting very tired of Hyena's bad habits. Hyena would always eat more than his fair share of food. He was also quite untidy, and hare found that he had so much to do every day unlike Hyena. Hare decided that he had to punish hyena, somehow.

One day, Hare made the most delicious meal ever. It was so tasty that neighbours came to ask what he was cooking because its aroma spread all over the jungle. Hyena smelt the food from a distance and ran home drooling. He was about to swallow the pot, as well as the food, when Hare told him, "This is not the kind of food you eat with dirty paws".

"My paws are always dirty," protested Hyena. "I have to walk, you know!"

Hare was adamant, "We have to wash our hands well."

"Well then," said Hyena impatiently, "bring some water and let us get over this paw washing nonsense!"

"There is no water in the house," said Hare, "and since I am the one who has cooked, you have to fetch the water. Here, use this wicker basket to bring water from the river so that we can both wash our paws before we eat."

Hyena zoomed to the river, scooped water up in the basket and ran up the hill. He only noticed that all the water had spilt out of the woven basket when he was almost at the door of their home. He ran back to the river, hoping that this time he could get back to the house and food before the water completely spilt out of the basket. Alas! Hyena soon made a muddy path from the river to the house, running back and forth, running faster each time, but never quite managing to get any water to the house.

In the meantime, Hare ate all the food and filled the pot with hot ashes. Hyena decided that he really did not care. He would use dirty paws like he had always done. If Hare wanted to wash his paws, he could fetch his own water. He threw the basket away and ran into the house. He grabbed the pot and emptied the content down his throat. Weeee! Weeee! The pain was unbelievable! Hyena choked, coughed and screamed in agony while Hare shot out at lightning speed. Their friendship died that way. As for Hyena, you know that sound we have always thought is laughter? Well, it is not. Every time Hyena remembers the agony he suffered that day, he screams in anguish. My story ends there.

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Questions

(i) Giving a reason, classify the above narrative **(2marks)**

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(ii) Mention two things that would indicate to you that the audience is enjoying the story as you narrate it. **(2 marks)**

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(iii) Identify the opening and closing formula used in the story. What roles do the two play? **(4 marks)**

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(iv) Apart from opening and closing formula, identify and illustrate two other features of oral narratives present in this story. **(4 marks)**

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(v) Describe the character traits of;

a) Hare **(2 marks)**

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b) hyena **(2 marks)**

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(vi) Give the meanings of the following words as used in the narrative **(4 marks)**

a) anguish……

b) zoomed……..

c) adamant……

d) jungle……

6.GRAMMAR

Fill in the blank spaces with the past tense form of the word given in brackets. (5 marks)

1) The people watched as the police vehicle …… by (speed)

2) The boy was …… by a swarm of bees. (sting)

3) The hybrid cows …… a lot of money (cost)

4) The antelopes……..... and ran away when they saw the leopard (spring)

5) The flamingos……from Lake Nakuru to Lake Bogoria (fly)

Punctuate the following sentences correctly ***(3 marks)***

1) What a wonderful friend she is

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2) Did she do the work

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3) The nile is the longest river in Africa

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Rewrite the following sentences according to the instructions given after each ***(7 Marks)***

1) He asked her where she was going

(Rewrite ending: ……. He asked her.)

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2) The cow was eating grass

(Begin: The grass……)

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3) My brother wore the red shirt

(Begin: The red shirt…….)

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4) Kamau considers English as a good subject.

(Rewrite changing the adjective into its superlative form)

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5) Miano prefers to swim early in the morning

(Rewrite in past tense form)

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6) The tourists saw a large**……..** of wolves (Fill in the blank space with a collective noun)

7) The ball is caught by the player in the middle

(Begin: The player in the middle……..)

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BRILLIANT STUDENTS

FORM 1 END TERM 3 SERIES 1 EXAMS

NAME: ……..

SCHOOL: ……...

ADM NO: …… **SIGN:** …… **DATE:** ……...

501/2 FRENCH QUESTION PAPER

(PAPER TWO)

FORM ONE (1)

Time 2 1/2 hrs

Instructions to candidates

1.Write your name and admission number in the spaces provided above.

2.Sign and write the date of examination in the spaces provided above.

3. This paper has three sections.

4.This paper consists of 7 printed pages.

5.Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

For Examiner's use only

Section	Total marks	Candidate's Score
	15	
II	50	
III	15	
TOTAL	80	

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SECTION I : LES COMPREHENSION ECRITES

Passage I **(10 pts)**

Janine est à la poste. Elle achète des timbres. Mais pourquoi des timbres ? Elle veut envoyer une carte postale à sa tante dans un pays étranger. Quel âge a Janine ? Elle a treize ans. Elle est étudiante au lycée Zeka. Elle est en cinquième et elle apprend six matières. De plus, elle est chef de la classe. Elle dit qu'elle ne va pas abandonner le français et l'anglais en forme deux. Elle voudrait devenir traductrice ou interprète.

Elle est grande et mince, a les cheveux longs et noirs et les yeux bleus. Elle ne porte pas de lunettes. Janine est très intelligente et sportive. Son passe-temps préfère est le sport. Elle aime beaucoup la natation. Elle représente son école aux concours nationaux de natation. Actuellement elle est la meilleure dans son école.

Janine est obéissante aux parents mais un peu paresseuse. Chaque jour elle se lève vers 9h00. Normalement elle est en retard pour les cours.

a) Où se trouve Janine ? **……..……** **(1 pt)**

b) Où habite sa tante ? **……** **(1 pt)**

c) Combien de matières apprend-t-elle? **……** **(½ pt)**

Donnez deux matières**…….……** **(1 pt)**

d) Pour quoi est-ce qu'elle va continuer avec le français ?

……..…… **(1 pt)**

e) Décrivez les aspects physique de Janine.

……

…….…… **(3 pts)**

f) Décrivez le caractère de Janine (Donnez 4)

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……. **(2 pts)**

g) Janine est française. **(½pt)**

A. Vrai B. Faux C. On ne sait pas

Passage II **(5 pts)**

Emilie fait son stage en entreprise ce trimestre. Elle travaille dans une école maternelle en ville. Chaque jour elle arrive à 8h00 du matin. Le matin, les enfants font des activités différentes par exemple, ils dessinent, ils jouent avec des jouets ou ils font de la peinture.

Emilie aide les institutrices de l'école. Elle encourage les enfants à parler et elle joue des jeux avec eux.

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L'après-midi, les enfants écoutent une histoire. Puis ils dansent et chantent ensemble. A 15h00 ils rentrent à la maison pour se reposer. Emilie range la salle et vers 15h30 elle part. Elle apprend à être patiente avec les enfants.

a) Ou travaille Emilie ? …… **(1pt)**

b) Qu'est-ce que les enfants font le matin ?……..

…… **(1½pt)**

c)A quelle heure les enfants rentrent à la maison ? …… **(1 pt)**

d) Quelles activités Emilie fait exactement ? (donnez 2)……

…… **(1pt)**

e) Quel mot dans le texte signifie '**enseignants en maternelle'**

…… **(½ pt)**

SECTION II : LA GRAMMAIRE.

Fill in the gaps by conjugating the verbs correctly in present de l'indicatif (25 points)

La vie d'un lycéen français …….. (être) différente de celle d'un lycéen canadien. En France, nous ……..……..…….. (se lever) vers 7 heures et nous …….. (prendre) un gros petit-déjeuner. Nous …….. (manger) du pain, des céréales et des fruits, et nous ……..….. (choisir) entre le café et le chocolat chaud.

Ensuite, on …….. (attendre) le bus du lycée. Nous …….. (monter) et d'autres étudiants …….. (marcher). Les cours …….. (commencer) à 8 heures et …….. (finir) à 4 heures ou 5 heures. Nous …….. (avoir) une pause déjeuner entre midi et 14h00. Nous ……..…….. (assister) aux beaucoup de cours. On …….. (avoir) l'histoire et la géographie, le français, les maths, les sciences physiques, et les sciences naturelles. Nous …….. (apprendre) aussi deux langues vivantes ; nous…….…… (faire) généralement le choix entre l'anglais, l'allemand et l'espagnol, mais dans certains lycées, on ……..…….. (choisir) le russe, l'italien ou l'arabe.

Nous ……..….. (aller) en classe le lundi, mardi, jeudi et vendredi toute la journée, et nous ……..….. (ne pas avoir) cours le mercredi après-midi. Le mercredi après-midi, on …….. (participer) souvent au sport dans un club. Nos vacances ..... (être) longues parce que les professeurs nous …… (donner) beaucoup de devoirs. Nous …… (travailler) plus dur que les lycéens Canadiens.

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Au Canada, les lycéens …….. (venir) des pays différents. Ils …….. (utiliser) les ordinateurs en classe. C' …….. (être) vraiment genial!

Complete the following using one word only. *(à, a, au, de, en, où, sur, ou)* **(5 points)**

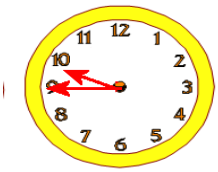
ii) Big Ben habite …… Londres, …… Angleterre.

(ii) Les étudiants de français viennent …… Mombasa.

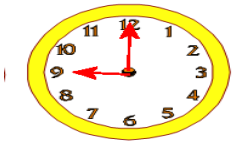
(iv) Est-ce que tu vas …….. Nakuru aujourd'hui ?

(v) Les lunettes de Papa sont…… la table.

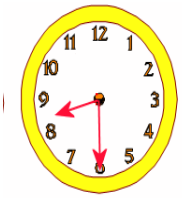
Quelle heure est-il ? **(4points)**



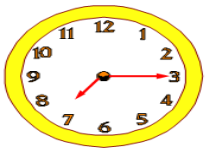
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Mettez le mot interrogatif qui convient **(6 points)**

1) …… de bonbons as-tu pris? (Pourquoi, Qui, Combien)

2) ……est ton professeur de français ? (Que, Qui, Quoi)

3) ……est ton pays préféré? (Quel, Quelle, Quels)

4) …… va-t-elle à la maison ? (Quoi, Quand, Lequel)

5) A ……penses-tu? (Pourquoi, Quoi, Où)

6) …… allez-vous, monsieur? (Combien, Quoi, Comment)

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For each item in column A select one matching ending from column B **(5 marks)**

1. Monsieur Masomo, bienvenue	(a) c'est Pierre Coubertin
2. Qu'est-ce que vous prenez ?	(b) a la maison
3. Oui, le 16 01 19 75	(c) elle n'est pas là
4. Je suis désolée	(d) Je veux bien du thé
5. Mon nom	(e) un numéro de téléphone
	(f) J'écoute
	(g) au lycée Mang'u

1	2	3	4	5

SECTION III: WRITING.

In **180 – 200** words write a composition in French on: **(15 points)**

Mon Village

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BRILLIANT STUDENTS

FORM 1 END TERM 3 SERIES 1 EXAMS

NAME: ……

SCHOOL: ……

ADM NO: …… **SIGN:** …… **DATE:** ……

312 GEOGRAPHY (QUESTION PAPER)

FORM ONE (1)

TIME: 2 HOURS

INSTRUCTIONS

- This paper consists of TWO Sections A and B.
- Answer ALL the questions in section A and B
- All answers must be written in the answer sheets provided.

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SECTION A

Answer all the questions

1.(a) Give **two** dates in the year when the sun is overhead position at noon is over the tropic of Cancer and Capricorn respectively. **(2mks)**

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(b) (i) What is meant by the term equinox? **(1mk)**

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(ii) List **two** effects of the rotation of the earth. **(2mks)**

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2. (a) Identify **two** forces that give the earth its shape. **(2mks)**

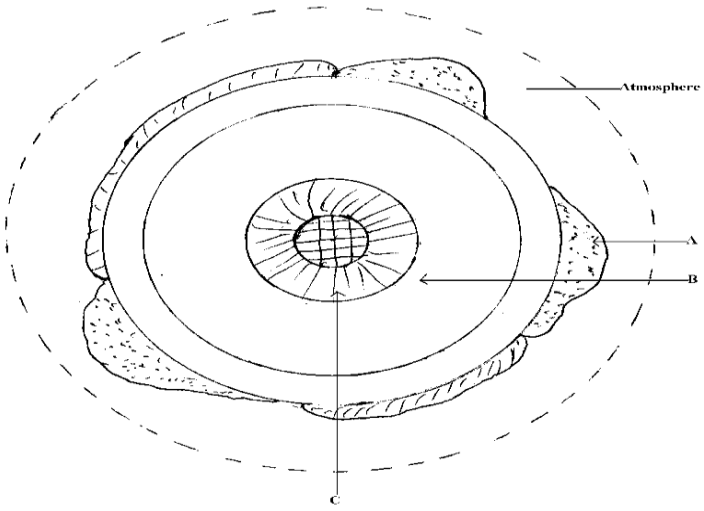
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(b) The diagram below shows the internal and external structure of the earth.



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Name the parts marked A, B and C. **(3mks)**

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3. (a) Differentiate between extrusive and intrusive rocks. **(2mks)**

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(b) Classify the following rocks: Quartzite, granite and mudstone into

(i) Igneous (ii) Sedimentary (iii) Metamorphic. **(3mks)**

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4. (a) Name **three** transitional zones of the atmosphere. **(3mks)**

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(b) Give **three** reasons why cloud concentration is higher in the troposphere. **(3mks)**

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5. (a) Students carried out a field study in a nearby meteorological weather station.

(i) State **two** reasons why a reconnaissance would be appropriate in this type of fieldwork. **(2mks)**

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(ii) Give any **two** follow-up activities the students ought to have done. **(2mks)**

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SECTION B

Answer **all** the questions

6. (a) (i) Apart from deep shaft mining, name **three** other mining methods. **(3mks)**

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(ii) Describe how deep shaft mining is carried out. (6mks)

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(b) Explain **four** ways in which the exploitation of minerals contributes to the economy of Kenya. **(8mks)**

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(c) (i) What is dereliction? **(2mks)**

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(ii) State **three** ways that can be used to combat dereliction**.** **(3mks)**

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(iii) A part from dereliction state **three** other negative effect of mining. **(3mks)**

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7.(a) State **three** characteristics of the inter-tropical convergence zone (ITCZ). **(3mks)**

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(b) With the aid of a well-labeled diagram describe how relief rainfall is formed. **(6mks)**

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(c) State **five** characteristics of the hot desert climate. **(5mks)**

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(d) You are required to carry out a field study to determine the relationship between climate and vegetation in your district.

i) Give **three** reasons why you would need the map of the district. **(3mks)**

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ii) Name **two** sampling techniques you are likely to use during the field study. **(2mks)**

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iii) Give **two** reasons why sampling would be appropriate for this field study. **(2mks)**

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iv) State **four** methods you would use to record data during the field study. **(4mks)**

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8.(a) (i) Apart from the thermal metamorphism, name **two** other types of metamorphism. **(2mks)**

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(ii) Describe how the following types of rocks form

- Calcereous rocks **(3mks)**

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• Carbonaceous rocks **(3mks)**

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(iii) Name **three** examples of rocks that are dominant at the coast of Kenya **(3mks)**

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(b) Explain how sedimentary rocks are formed through the following processes;

(i) Mechanical process **(4mks)**

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(ii) Chemical process. **(4mks)**

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(c) Students from your school intend to carry out a field study on rocks in Mt. Longonot

(i) State **three** activities they would be involved in. **(3mks)**

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(ii) State **three** objectives of your study. **(2mks)**

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BRILLIANT STUDENTS

FORM 1 END TERM 3 SERIES 1 EXAMS

NAME: ……..

SCHOOL: ……...

ADM NO: …… **SIGN:** …… **DATE:** ……...

HISTORY AND GOVERNMENT (QUESTION PAPER)

FORM ONE (1)

TIME: 2½ HOURS

INSTRUCTIONS TO CANDIDATES

- This paper has **three** sections: A , B and C
- Answer **ALL** questions in this paper
- All answers **MUST** be written in the Foolscap papers provided.

Section A	Question	Maximum score	Candidates Score
	1- 17		
	18		
	19		
	20		
	21		
	22		

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SECTION A (25 MARKS)

1. Identify two ways through which Archaeologists obtain information on the history of Kenya. **(2 mks)**

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2. Name two communities in Kenya who belong to the Plain Nilotes. **(2 mks)**

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3. What was the original homeland of the Eastern Cushites**.** **(1 mk)**

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4. State two similarities in the political organization of the Ameru and the Abagusii during the 19th Century. **(2 mks)**

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5. Give the main reason why the early visitors came to the Kenyan coast by 1500 AD. **(1 mk)**

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6. Identify two ways of becoming a Kenyan citizen**.** **(2 mks)**

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7. State two religious functions performed by Oloibon of the Maasai during the pre-colonial period. **(2 mks)**

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8. State one characteristic of homo sapien **(1 mk).**

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9. Identify two similarities between early agriculture in Mesopotamia and Egypt**.** **(2 mks)**

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10. State two shortcomings of oral traditions as a source of history. **(2 mks)**

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11. Give one reason why Homo Habilis was referred to as "able" man**.** **(1 mk**)

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12. Identify one area in Africa where agriculture began. **(1 mk)**

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13. Identify the method used to plant cereal crops when early agriculture began. **(1 mk)**

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14. Give two reasons that made early human beings to live in groups during the Stone Age Period. **(2 mks)**

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15. Identify one type of artifact that is likely to be found on an archaeological site. **(1 mk)**

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16. Name one source of information on the creation theory**.** **(1 mk)**

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17. Give the relationship between "History" and "Government". **(1 mk)**

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SECTION B

(45 MARKS)

ANSWER ALL THE QUESTIONS

18. (a) State five economic activities of the Borana during the pre-colonial period. (**5 mks)**

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

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19. (a) What five factors made early man to domesticate crops and animals? **(5 mks)**

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(b) Explain five causes of food shortages in Third World countries. **(10 mks)**

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20. (a) What were the physical changes which occurred in early human beings as they evolved from ape-like creature to modern people**?** **(5 mks)**

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(b) Describe the way of life of early Human Beings during the Old Stone Age Period. **(10 mks)**

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SECTION C

(30 MARKS)

ANSWER ALL THE QUESTIONS

21. (a) State three characteristics of microlithic tools used during the Late Stone Age Period. **(3 mks)**

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(b) Explain six challenges faced by early humans in hunting and gathering activities. **(12 mks)**

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22. (a) Give three reasons why the early visitors came to the Kenyan - Coast before 1500 A.D**.** **(3 mks)**

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(b) Explain six factors that contributed to the development of trade between the Kenyan coast and the outside world by 1900. **(12 mks)**

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BRILLIANT STUDENTS

FORM 1 END TERM 3 SERIES 1 EXAMS

NAME: ……

SCHOOL: ……

ADM NO: …… **SIGN:** …… **DATE:** ……

HOME SCIENCE (QUESTION PAPER)

FORM ONE

TIME 2 HOURS

Instructions to students

a) *Write your name, admission number and class in the spaces provided*

b) *Sign and write the date of the examination in the spaces provided*

c) *This paper consists of* ***three*** *sections:* ***A***, ***B*** *and* ***C***

d) *Answer* ***all*** *the questions in sections* ***A*** *and* ***B*** *and any* ***two*** *questions from section* ***C***

e) *Answers to all the questions must be written in the spaces provided in the paper*

f) Students should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing

g) Students should answer the questions in English

For examiner's use only

Section	Question	Maximum Score	Student's Score
A	1- 19	40	
B	20	20	
		20	
		20	
TOTAL SCORE		100	

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SECTION A: (40 marks)

*Answer **ALL** the questions in this section in the spaces provided.*

1.Give **two** methods of steaming food. **(1 mark)**

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2.List **four** Shaping and moulding tools in the kitchen. **(2marks)**

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3.Give **two** Ways a family can benefit from skills learned in Home Science. **(2 marks)**

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4.Mention **two** reasons for removing dirt from surfaces. **(2marks)**

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5.Suggest **three** ways of keeping feet healthy. **(3 marks)**

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6.List **two** categories of synthetic fibres. **(1 mark)**

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7.State **two** differences between boiling and stewing. **(2 marks)**

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8.Identify the small needlework equipment in the picture and give their use. **(3 marks)**



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9.Mention **four** crucial times one should wash their hands for good hand hygiene in school. **(2 marks**)

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10. Give **two** methods of removing dirt from surfaces. **(1 mark)**

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11. Mention **two** disadvantages of living in an employer provided house. **(2 marks)**

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12. Identify the **two** causes of needle breaking in a machine. **(1 mark)**

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13. State **two** ways of maintaining healthy eyes. **(2 marks)**

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14. Mention **four** areas found in a modern house. **(2 marks)**

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15. Identify **three** signs of food poisoning. **(3 marks)**

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16. List **four** materials used in making kitchen equipment. **(2 marks)**

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17. Give **three** qualities of a good hand sewing needle. **(3 marks)**

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18. Outline **three** disadvantages of living in flats. **(3 marks)**

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19. Mention **one** reasons why used face masks should not be carried in the pocket. **(1 mark**)

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20. Identify **two** reasons for bathing. **(2 marks)**

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SECTION B: (20 marks)

COMPULSORY

Answer question 21 in the spaces provided.

21. Your school is holding a prize giving day and you have been asked as Home Science students to help in some preparations

a) Outline the procedure you will follow in cleaning the terrazzo floor in the dining hall. **(7 marks)**

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b) Describe how you will clean the stainless steel tray to be used in serving. **(5 marks)**

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c) Give the steps you will follow in cleaning your leather shoes in readiness for the occasion. **(8marks)**

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SECTION C: (40 marks)

Answer any two questions from this section in the spaces provided at the end of this section.

22.

a) Outline **five** reasons for cooking food. **(5 marks)**

b) Discuss **three** qualities of a good kitchen knife. **(6 marks)**

c) Citing an example in each case, give **five** factors that influence the cleaning frequency of a home. **(5 marks)**

d) Mention **four** causes of food spoilage. **(4 marks)**

23.

a) Outline **four** measures to take to avoid fractures at home. **(4 marks)**

b) Give **four** safety precautions to observe when handling kitchen equipment. **(4 marks)**

c) Mention **three** functions of teeth. **(3 marks)**

d) Give **three** ways of keeping a bathroom safe. **(3 marks)**

e) Discuss **three** ways of providing family shelter. **(6 marks)**

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24.

a) Outline **six** rules to observe in kitchen hygiene. **(6 marks)**

b) Explain **four** reasons for covering a pot when cooking. **(4 marks)**

c) Discuss **three** desirable qualities of a kitchen floor. **(6 marks)**

d) Give **four** general properties of plant fibres. **(4 marks)**

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BRILLIANT STUDENTS

FORM 1 END TERM 3 SERIES 1 EXAMS

NAME: ……

SCHOOL: ……...

ADM NO: …… **SIGN:** …… **DATE:** ……...

ISLAMIC RELIGIOUS EDUCATION (QUESTION PAPER)

FORM ONE

TIME 2 HOURS

INSTRUCTIONS:

1. This paper contains five(5) questions.

2. Answer all questions

3. Write your answers in the answer sheet provided.

4. All answers must be in English.

1.a) State the importance of the *Holy Quran* to Muslims. **(5mks)**

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b). State five teachings of suratul *Fatiha* **(5mks)**

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c) Explain the differences between Qur'an and Hadith **(10mks)**

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2. a) Explain the types of shirk. **(6marks)**

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b) State the obligatory steps of wudhu **(6mks)**

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c). Explain the differences between Zakatul Fitr and zakatul Maal **(10mks)**

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3. a) Explain **five** importance of Tawheed to muslims **(5mks)**

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b) Discuss the importance of Islamic morality**.** **(10marks)**

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c) Identify five deeds that can weaken the faith of a Muslim **(5mks)**

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4. a) Explain five importance of marriage in Islam**?** **(10mks)**

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b) State five duties of a Muslim wife **(5mks)**

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c) Describe the forms of persecution that early Muslims were subjected to in Makkah. **(7marks)**

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5.a) Explain five reasons why Hijra is regarded as a turning point in the history of Islam **(10marks)**

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b) Identify the contributions of *Sheikh* Swaleh Farsy in the development of Islam in East Africa **(10mks)**

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BRILLIANT STUDENTS

FORM 1 END TERM 3 SERIES 1 EXAMS

JINA: ……

SHULE: ……

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

KISWAHILI

FORM ONE

TIME 2 HOURS

SWALI	UPEO	ALAMA
UFAHAMU	15	
MATUMIZI YA LUGHA	40	
ISIMUJAMII	10	
FASIHI SIMULIZI	15	
JUMLA	80	

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1. UFAHAMU

Soma habari ifuatayo kisha ujibu maswali.

Asifuye mvua imemnyea. Hii ni semi yenye hakika isiyopingika, na kuitilia shaka ni sawa na kudai jua linaweza kubadilika na kuchomozea upande wa magharibi badala ya mashariki. Huu ndio ukweli uliodhihirika juzi katika vyombo vyetu vya magazeti.

Lisemwalo lipo na kama halipo linakuja. Waama, pafukapo moshi pana moto. Mwanafunzi mmoja wa kike kwa jina P.N. katika chuo kikuu kimojawapo nchini aliushangaza umma wa Kenya na ulimwengu kwa jumla alipodai kuwaambukiza wanafunzi wenzake wa kiume mia moja na ishirini na wanne virusi vya ukimwi.

Kisa na maana? Aliambukizwa ukimwi na mwanafunzi mwenzake aliyekuwa akifanya majaribio ya ualimu katika shule yao ya upili. Baada ya kushawishika sana alijuana naye kimwili, na matokeo yakawa kifo ambacho sasa alikuwa anawagawia wenzake.

Kisa kama hiki kinachangia kueleza kina kirefu cha kutamauka na upweke ambao maisha ya waja wengi yameingia kiasi cha kuwaacha wanyama ijapo wanaenda kwa miguu miwili bado. Katika mafunzo mojawapo ya kidini ambayo padre alinifunza mimi na wanafunzi wenzangu, tuliambiwa kisasi ni chake Mola, sisi waja yetu ni kushukuru tu. Mbona basi mwanafunzi kama huyu kutaka kulipiza?

Ima fa ima, na Waswahili husema, Mlaumu nunda na kuku pia." Huyu mwanafunzi hawezi kuachiwa atende alivyotenda. Aliyekula naye raha alikuwa mtu aliyefahamika vizuri sana kwake. Isitoshe, huenda wakati huo alikosana na mama na baba kwa kulala nje. Huenda alaikosana na ndugu zake kwa kukwepa nyumbani usiku wa manane kwenda kumwona huyu kalameni. Huenda alikosana na mwalimu wake kwa sababu kiburi kilianza kuingia. Kwa vyovyote vile, alikula raha na hastahili kuwaadhibu watu wasio na hatia kufidia makosa yake. Je, kama yeye na huyo jamaa wasingekuwa na ukimwi , raha kiasi gani wangezila hadi leo?

Jamii na watu wote kwa ujumla hawana budi basi kulaani vitendo vya P.N. vya kuwaambukiza wanafunzi wenzake virusi huku akijua. Hili ni kosa ambalo linastahili adhabu ya kifo. Dawa ya moto ni moto, na hatua inastahili kuchukuliwa haraka ili P.N. ambaye tayari amekiri hatia, atiwe nguvuni na adhabu itolewe.

Barua ya P.N. imefafanua jambo jingine sugu. Kwamba kiwango cha maadili katika vyuo vyetu kimezorota kiasi cha kufanyiana unyama usiosemeka. Vijana wengi siku hizi wanashiriki tendo la ndoa nje ya ndoa bila haya. Huu upotovu wa maadili katika jamii wapaswa kushutumiwa na wote. P.N. hana sababu yoyote ya kibinadamu, kidini au kitu chochote kile kudai haki kwa uovu wake.

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MASWALI

a) Ipe habari hii kichwa mwafaka. **(Alama 1)**

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b) Katika aya mbili za mwanzo, mwandishi wa makala haya anamlaumu mwanafunzi kwa kosa gani? **(Alama 2)**

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c) Eleza chanzo cha tabia za P.N. **(Alama 2)**

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d) Mwandishi wa makala haya anapendekeza hatua gani ichukuliwe dhidi ya P.N. na kwa nini? **(Alama 3)**

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e) Barua ya P.N. imeonyesha uvumbuzi mpya. Utaje. **(Alama 2)**

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f) Taja tamathali moja ya lugha iliyotumika katika ufahamu na utoe mfano **(alama 2)**

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f) Eleza maana ya vifungu vifuatavyo kama vilivyotumika katika taarifa. **(Alama 3)**

i) Ima fa ima

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ii) Kufidia makosa yake

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iii) kufanyiana unyama

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MATUMIZI YA LUGHA

a) Kwa kuzingatia hali ya mtetemeko wa nyuzi za sauti, taja aina mbili kuu za sauti. **(alama 2)**

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b) Fafanua muundo wa silabi katika neno Ngwena. **(alama 2)**

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c) Tia shadda katika neno lifuatalo ili kutoa maana mbili tofauti. **(alama 2)**

Barabara

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d) Taja vipashio nne vikuu vya lugha**.** **(alama 2)**

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e) Tambua aina zozote tatu za sentensi kwa kuzingatia kigezo cha kiimbo **(alama 3)**

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f) Karabati sentensi hii. **(alama 2)**

Mgeni ambaye aliyekuja atarudi kesho.

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g) Kamilisha sentensi zifuatazo ukitumia neno lifaalo kutoka mabanoni **(alama 2)**

(i) Pahali **.....** pana mali **.....** (haba, hapa)

(ii) Harun aliiba pesa ..... akafikishwa ..... (kortini, kotini)

h) Bainisha matumizi ya mshazari katika sentensi ifuatayo **(alama 2)**

Watoto/wazee walipewa zawadi/tuzo na askofu

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i) Taja na utoe mifano ya aina mbili za nomino **(alama 2)**

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j) Akifisha; **(alama 3)**

Mimi nimefurahi sana kuona kwamba umefika mapema je nikuandalie kinywaji gani.

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k) Andika kwa wingi; **(alama 2)**

Kondoo huyu na mbuzi yule ni wa mfugaji yupi?

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l) Kanusha sentensi ifuatayo **(alama 2)**

Mimi nilienda dukani

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……

m) Ni ala zipi za sauti zinazotumika kutamkia sauti zifuatazo? **(alama 2)**

(i) /b/ .....

(ii) /th/ .....

(iii) /v/ .....

(iv) /g/.....

n) Bainisha maneno yaliyopigwa vistari **(alama 2)**

Kiatu <u>chake</u> <u>k</u>imeraruka

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Cha kakao kimetafunwa na nguruwe.

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o) Tunga sentensi kulingana na ngeli zilizotajwa**.** **(alama 2)**

U – YA.

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I – ZI

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p) Geuza sentensi katika kauli ya kutendwa.

Mama anapika chakula kitamu **(alama 2)**

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q) Andika sentensi ifuatayo katika wakati ujao hali timilifu **(alama 2)**

Dada ameenda sokoni

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r) Tunga sentensi na uonyeshe kundi nomino na kundi tenzi **(alama 2)**

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s) Tunga sentensi yenye upatanisho wa kisarufi ukitumia neno **kiroboto** **(alama 2)**

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ISIMUJAMII (ALAMA 10)

Soma kifungu kifuatacho kisha ujibu maswali yanayofuata.

"Ndugu na madada, sote tumealikwa katika karamu hii ya Bwana. Kabla ya kujongea mezani pake, Bwana, pana haja ya kutakasa nyoyo zetu na kujutia madhambi yetu. Sisi sote ni watenda dhambi na inastahili kumwendea ili aweze kutuondolea madhambi yetu."

Maswali

a. Tambua muktadha wa dondoo hili **(alama 2)**

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b. Eleza sifa zozote nne zinazojitokeza katika sajili hii **(alama 4)**

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c. Umepewa nafasi ya kuzungumza katika mazingira haya. Taja sifa zozote nne za lugha ambazo ungetumia mbali na sifa zilizomo katika dondoo hili. **(alama 4)**

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FASIHI SIMULIZI (ALAMA 15)

Soma Kifungu kifuatacho kisha ujibu Maswali.

Ghafla kama ajali, sungura alitokea katika kichaka kilichokuwa karibu, Macho ya mbwa ndiyo yalikuwa ya kwanza kumtua sungura huyo. Moyo wake ukamzaini kukitwaa kisungura hicho na kukonga roho yake. Mara alikumbuka onyo ambalo walikuwa wamepewa na malaika mkuu. Mvutano mkali ulizuka katika nafsi yake, 'Bwana wewe una njaa, vipi utakiacha kitoweo ambacho kwa kweli kinakunyoshea mkono?

i) Hiki ni kipera kipi? Kwan nini? **(alama 2)**

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ii) Tambua sifa zozote nne za kipera hiki **(alama 4)**

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iii) Eleza umuhimu wa kipera hiki. **(alama 5)**

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iv) Fomyula ya kumalizia hadithi ina umuhimu gani? (alama 4)

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BRILLIANT STUDENTS

FORM 1 END TERM 3 SERIES 1 EXAMS

NAME: ……

SCHOOL: ……

ADM NO: …… **SIGN:** …… **DATE:** ……

MATHEMATICS (QUESTION PAPER)

FORM 1

TIME 2½ HOURS

INSTRUCTIONS TO CANDIDATES

a) Write your name and admission number in the spaces provided above.

b) This paper consists of **TWO** sections. **Section A** and **Section B**

c) Answer **ALL** the questions in **section A** and **ALL FIVE** questions from **Section B**

d) All answers and working must be written on the question paper in the spaces provided below each question.

e) Show all the steps in your calculations, giving your answers at each stage in the spaces below each question.

f) Marks may be given for correct working even if the answer is wrong

g) Non- programmable silent calculators and **KNEC** mathematical tables may be used except where stated otherwise.

h) Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

FOR EXAMINERS USE ONLY

SECTION 1

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

SECTION 11

17	18	19	20	21	TOTAL

GRAND TOTAL

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SECTION A (50 MARKS)

1.Write 5890027649.96 in words. **(1 mark)**

2.Simplify without using a calculator, giving your answer as a fraction in its simplest form. **(3 marks)**

$$\frac{\frac{2}{3} \div \frac{4}{3}}{\frac{1}{3} + \frac{5}{6}} \div \frac{1}{4}$$

3.If the repeating decimal 0.151515…. is expressed as a ration of whole number $^{a}/_{b}$ in the lowest terms, what is the value of $b - a^2$ **(4 marks)**

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4.The table below shows the current exchange rate at a Forex Bureu on 1st March 2013

Currency	Buying rate (Kshs)	Selling rate (Kshs)
Euro	93.50	98.40
Sterling pound	132. 40	139.80
Dollar	72. 35	74.95

A business man visited Kenya, he had 36,590 Euros. He converted all the money to Kenya shillings and spent Kshs. 52,000 on accommodation and another shillings 80,000 on buying artifacts. He then flew to America where he converted the balance to US dollars. How much money did he receive? **(3 marks)**

5.Use tables of square and square roots to find the value of x if $x = \sqrt{0.0236^2 + 0.1049^2}$ **(4 marks)**

6.One interior angle of a certain polygon is 84^0. If each of the other angles is 147^0, how many sides does this polygon have? **(3 marks)**

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7. 3g of metal A of density $2.7g/cm^3$ is mixed with $2.4dm^3$ of metal B of density $4.8g/cm^3$. Determine the density of the mixture. **(4 marks)**

8. Korir is now four times as old as his daughter and six times as old as his son. Twelve years from now, the sum of the ages of his daughter and son will differ from his age by 9 years. Determine present ages. **(3 marks)**

9. Show that 8260439 is exactly divisible by 11, using test of divisibility**.** **(2 marks)**

10. John bought 3 books and 4 pens while Peter bought 4 books and 5 pens of the same type if Peter paid sh. 525 while John paid sh. 125 less than what Peter paid. Calculate the cost of each item. **(3 marks)**

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11. A square room is covered by a number of whole rectangular slabs of sides 60cm by 42cm. Calculate the least possible area of the room in square metres **(4 marks)**

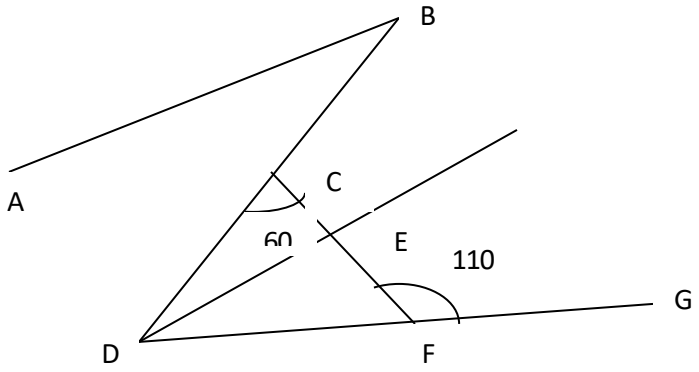
12. Two numbers are in the ratio of 5:7. When 15 is added to each number, the ratio changes to 5: 6 find the two numbers **(3 marks)**

13. A bus service number 4 leaves a terminus every 15 minutes. Services 8 and 3 leaves every 20 and 30 minutes respectively. If all the three services leave together at 06.00 am, at what other times during day time do they leave together? **(3 marks)**

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14. In a trapezium of area $40cm^2$ the ratio of the lengths of the parallel sides is 2: 3. Find the lengths of the parallel sides if they are 5cm apart. **(3 marks)**

15. In the figure below AB is parallel to DE. DE bisects angle BDG, angle DCF = 60^0 angle CGG = 110^0.



Find, give reasons for your answers

a) <CDF **(2 marks)**

b) <ABD **(2 marks)**

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16. A watch which loses a half –minute every hour was set to read the correct time at 0545h on Monday. Determine the time in the 12 hour system, the watch will show on the following Friday at 1945h. **(3 marks)**

SECTION B (50 MARKS)

*Attempt **ONLY FIVE** questions in this section.*

17. The ratio of Juma's and Akinyi's earnigs was 5:3 Jumas earnings rose to sh.8400 after an increase of 12%.

(a) Calculate the percentage increase in Akinyi's earnings given that the sum of their new earnings s shs. 14,100. **(6mks)**

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(b) Juma and Akinyi contributed all the new earnings to buy maize at 1175 per bag. The maize was then sold at shs.1762.50. The two shared the money from the sales of the maize in ratio of their contributions. Calculate the amount that Akinyi got. **(4mks)**

18. (a) Find the surface area of a rectangular glass block whose volume is $1584cm^3$, if it is 72cm long and 40cm wide. **(4 marks)**

(b) The diameter of a cylindrical container, closed at both ends is 0.28m and its height is 14m. Find its

(i) surface area **(4 marks)**

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(ii) volume **(2 marks)**

19. Four boats P, Q, R and S are anchored on a bay such that Q is 200m on a bearing of 065^0 from P. R is 300m on a bearing of 120^0 from Q. S is 150m due west of R.

a. Using a scale of 1cm to represent 50m, draw an accurate scale drawing representing the relative position of P, Q, R and S. **(4marks)**

b. Using the scale drawing find the distance between

i. P and S **(2marks)**

ii. P and R **(2marks)**

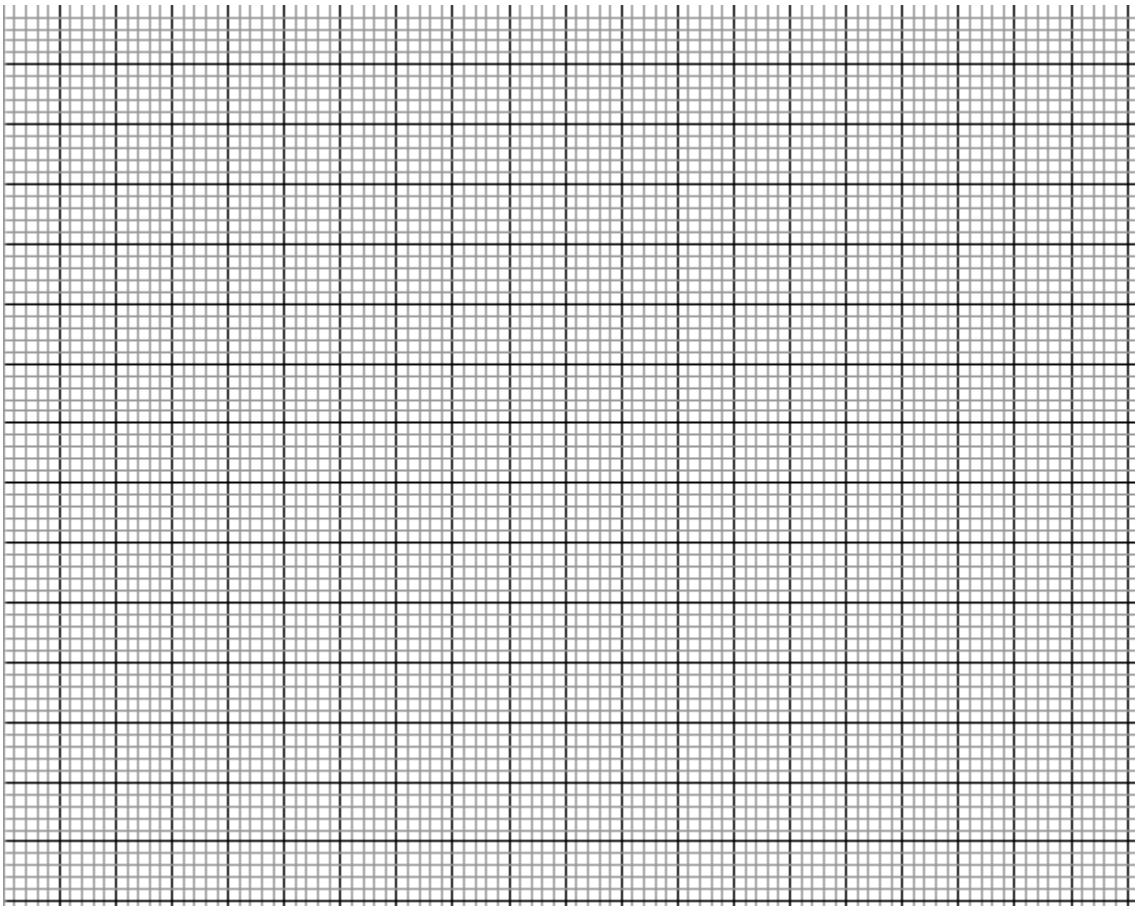
c. Determine the compass bearing of P and R. **(2marks)**

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20. The table below shows the amount of money charged for hiring a car for a given distance.

Distance in km	10	20	30	40	50
Charges (Ksh)	2500	4000	5500	7000	8500

(b) On the grid provided draw a graph of charges and the distance covered



(c) Use your graph above to find

(i) The standing charge

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(ii) How much money is charged for covering a distance of 24km, 35km and 46km.

(iii) The distance covered if the amount charged is shs. 3,000 and shs. 8,000.

21. The cost of making a table consists of transport, labour and raw material in the ratio 4:2:6 respectively. During an inflation year the transport cost increased by 6%, the labour by 9% and raw materials by 20%.

a) Find the percentage increase in producing a table. **(6 marks)**

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b) What was the old price of a table if the new price is Kshs. 680? **(2 marks)**

c) How much would Saum have saved if she buys a dozen of tables at the old price? **(2 marks)**

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BRILLIANT STUDENTS

FORM 1 END TERM 3 SERIES 1 EXAMS

NAME: ……..

SCHOOL: ……...

ADM NO: …… **SIGN:** …… **DATE:** ……...

PHYSICS (232)

FORM ONE (1)

Time: 2 Hours

Instruction to students

- Write your name, Admission number in the spaces provided.
- This paper consists of TWO sections: A and B
- Answer ALL questions in section A and B in the spaces provided.
- ALL workings MUST be clearly shown.
- Mathematical tables and electronic calculators may be used.
- You may use gravitational pull as '10N/kg'

For examiner's use only:

Section	Question	Maximum score	Candidate's score
A	1 – 11	25	
B	12 13 14 15 16	11 12 11 13 08	
	Total	80	

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SECTION A (25 MARKS)

1.Explain why physics is considered as a science **(1 mark**)

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2.Give reason why the study of physics in secondary school is important **(2 marks)**

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3.What is the first thing you should do when your classmate experiences an electric shock in the laboratory **(1 mark)**

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4.Define length and state its SI unit **(2 marks)**

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5.Express the following in SI unit:

a) 0.000008 km^2 **(2 marks)**

b) 800cm^2 **(2 marks)**

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6.The figure below shows part of a metre rule used for measuring the length of a metal rod. Determine the length of the rod: **(2 marks)**

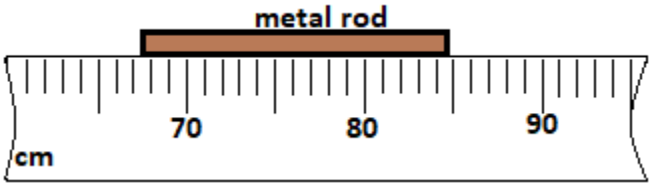


Figure 1

7.The diameter of the rod (in figure 1) was found to be 3.5 mm. Determine the volume of the metal rod **(3 marks)**

8.The figure 2 below shows map of a certain ranch.

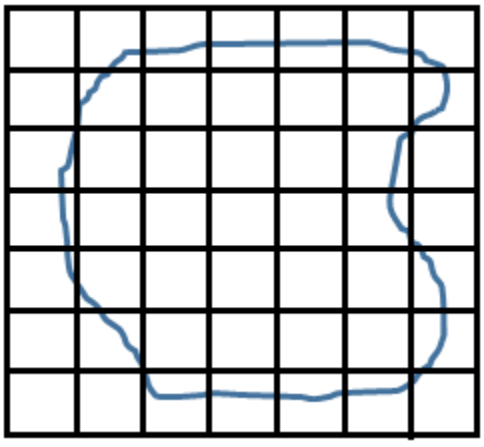


Figure 2

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The squares are similar and measures $1km^2$ each. Determine the area of the ranch in m^2. **(3 marks)**

9.Define force and state it's SI unit **(2 marks)**

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10. When a thin capillary glass tube is dipped in a basin of water, the level of water rises in the tube. Explain **(2 marks)**

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11.

a) What is frictional force **(1 mark)**

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b) Give two advantages of frictional force **(2 marks)**

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SECTION B (55 MARKS)

12.

a) Define the term 'surface tension' **(1 mark)**

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b) A steel pin is placed on a bloating paper resting on the surface of water as shown below.

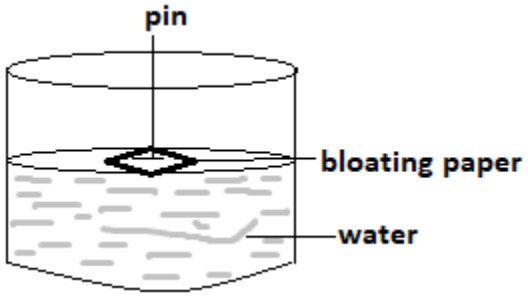


Figure 3

i. State and explain what happens after some time **(2 marks)**

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ii. Some soap solution is now added to the water. State and explain the observation made **(2 marks)**

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iii. Suggest any other one way through which the observation made (in b,ii) above could be achieved **(1 mark)**

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c) Identify any two differences between weight and mass **(2 marks)**

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d) A loop of wire with a loose thread tied on it was dipped in soap solution and the soap film was formed on it as shown below:

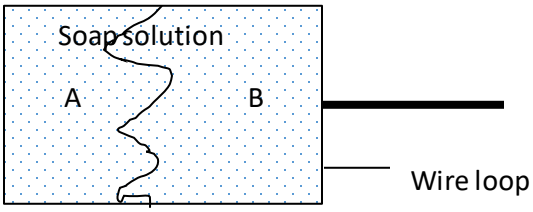
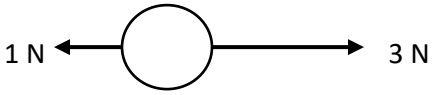


Figure 4

Draw another diagram showing what will be observed when the soap film is broken with an object pin at point, A. **(1 mark)**

e) Using a labelled diagram, show the resultant force acting on the body in the figure below:



(2 marks)

Figure 5

13.

a) Define pressure and state its SI unit **(2 marks)**

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b) Water jets out of a tall measuring cylinder as shown below. Complete the diagram to show how the jet of water comes out of holes A and C **(2 marks)**

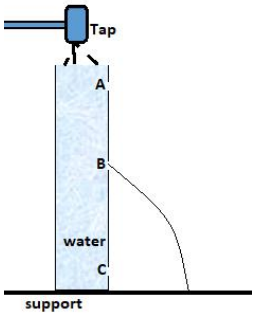


Figure 6

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c)

i. A coin is dropped on water in a swimming pool and it sinks to the bottom of the pool. State any two factors that would affect the amount of pressure it experiences. **(2 marks)**

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ii. The difference between the atmospheric pressure at the top and bottom of a hill is 4000 N/m^2. If the density of air is 1.25 Kg/m^3, calculate the height of the hill. **(3 marks)**

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d) The diagram below shows an arrangement for drawing petrol from tank P to tank Q.

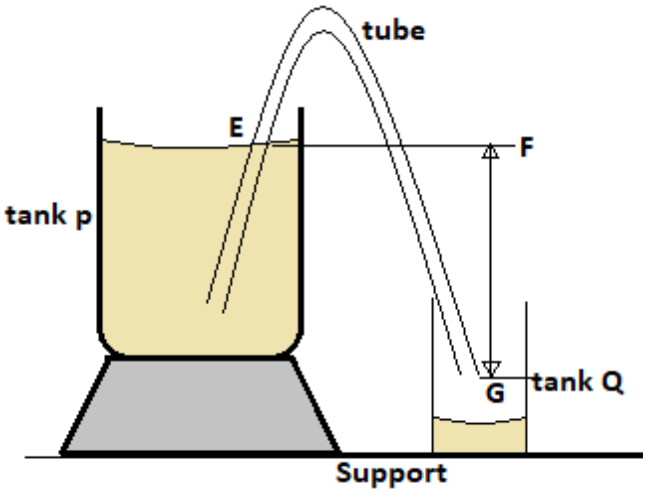


Figure 7

i. Suggest a name for the arrangement above **(1 mark)**

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ii. Explain what must be done before the arrangement could be used for transferring the petrol **(2 marks)**

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14.

a) Distinguish between heat and temperature **(1 mark)**

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b) Figure 8 shows a clinical thermometer.

i. Identify the parts labelled A and B. **(2 marks)**

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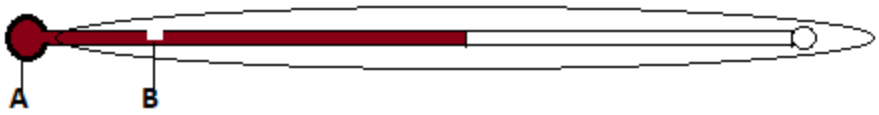


Figure 8

ii. State the function of the part labelled B **(1 mark)**

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c) Alcohol is sometimes preferred to mercury as a thermometric liquid. Explain **(2 marks)**

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d) The figure below is an illustration of a fire alarm. Describe how it works **(4 marks)**

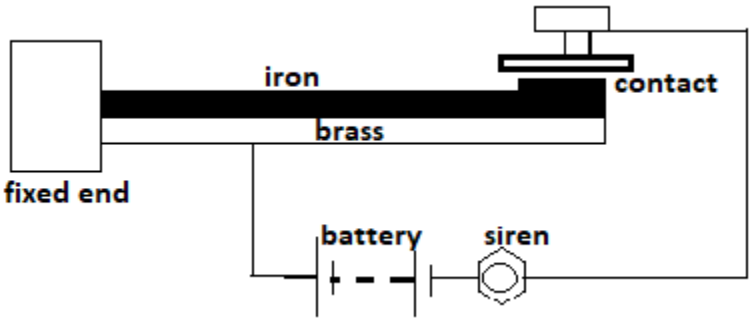


Figure 9

e) Convert $10^{o}C$ to kelvin **(1 mark)**

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15.

a) Define 'matter' **(1 mark)**

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b) The figure 10, shows salt solution inside a flask before and after the flask is shaken.

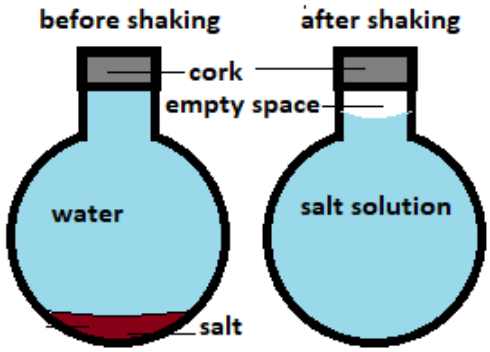


Figure 10

Explain the presence of the empty space above **(2 marks)**

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c) A porous pot containing air is connected to a water manometer as shown in figure 11. The hydrogen is let in while the tap is closed.

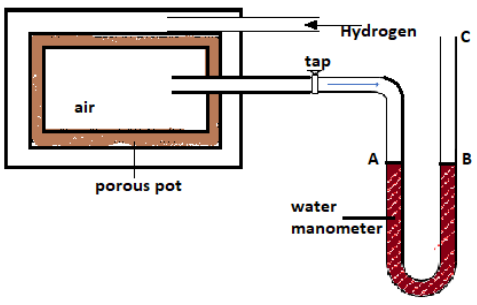


Figure 11

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i. State and explain the observation made when the tap is open while the hydrogen continue to flow in **(3 marks)**

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ii. The water is now replaced with mercury. Compare, the observation made on the manometer, with that of part (c, i) above and explain your answer **(2 marks)**

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d) During a smoke cell experiment to investigate Brownian motion, smoke particles are observed to be in random motion. Explain **(1 mark)**

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e)

i. Suggest the effect of temperature on the motion of the smoke particles **(1 mark)**

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ii. Matter can exist in three states. Identify the processes labelled A, B and C **(3 marks)**

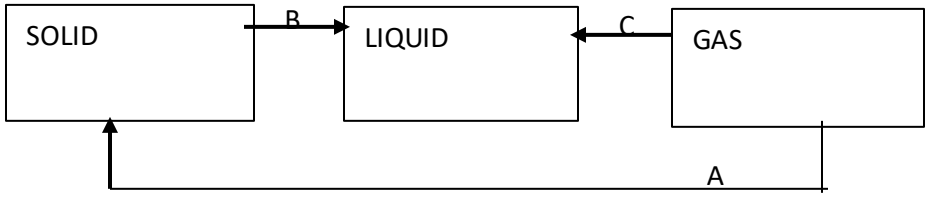


Figure 12

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16.

a) State two means by which conduction occurs **(2 marks)**

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b) A form one set-up an experiment as shown below:

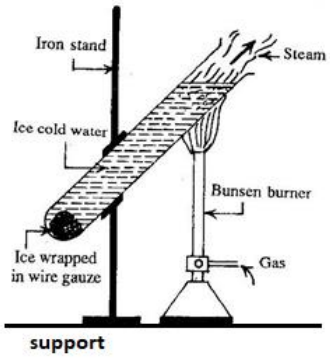


Figure 13

i. Suggest the aim of the experiment **(1 mark)**

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ii. State and explain what is observed after some time **(2 marks)**

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iii. What is the purpose of the wire gauze in this experiment (1 mark)

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c) A shadow is formed when light is incident on an opaque object. Identify the property of light responsible for this. **(1 mark)**

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d) One of the laws of reflection of light at plane surfaces is that 'the angle of incidence and the angle of reflection are equal.' State the other law of reflection of light at plane surface **(1 mark)**

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