

BRILLIANT STUDENTS FORM 2 END TERM 2

SERIES 2 EXAMS (ALL SUBJECTS TESTED)



BRILLIANT STUDENTS FORM 2 END TERM 2 SERIES 2 EXAMS

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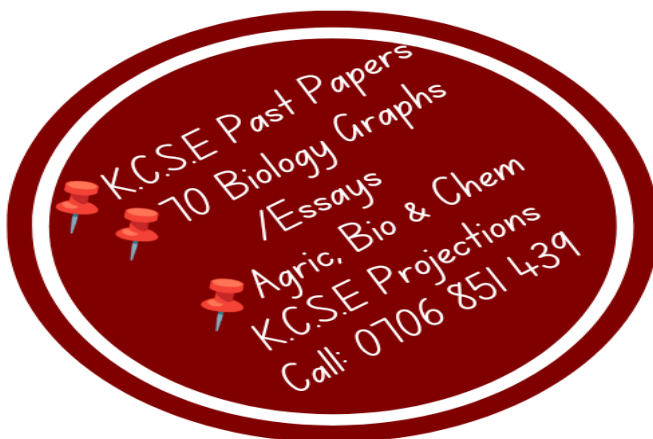
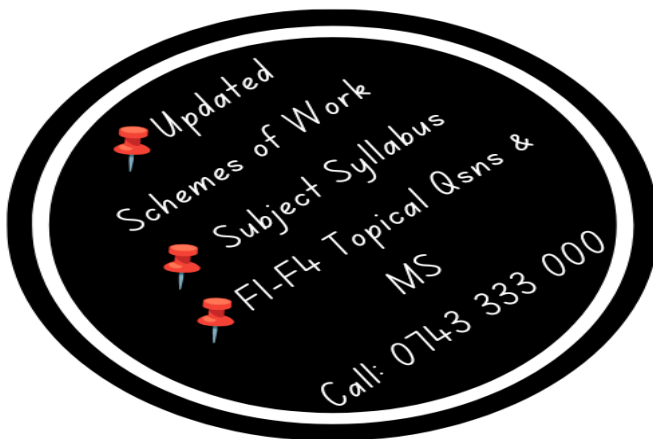
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ACQUIRE :**



BRILLIANT STUDENTS FORM 2 END TERM 2 SERIES 2 EXAMS

NAME:

SCHOOL:

ADM NO: SIGN: DATE:

FORM TWO

AGRICULTURE

TIME 2 HOURS

This paper has three section A, B and C.

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

All answers should be written in the spaces provided.

OFFICIAL USE ONLY

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

SECTION A 40 MKS

Answer all question in this section

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

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

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

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

a) Wheel barrow

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b) Milking pail

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c) Wool shears

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

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

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

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

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

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10. State two characteristics of a dairy cattle breed.

(2mks)

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11. State two uses of farm records.

(2mks)

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12. What does the following initials represent in fertilizer description N.P.K.

(3mks)

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13. Differentiate between the following terms.

a) Straight fertilizer and compound fertilizer.

(2mks)

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



15. State two advantage of using seeds as planting materials.

(2mks)

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16. Name two methods a farmer can use to break seed dormancy.

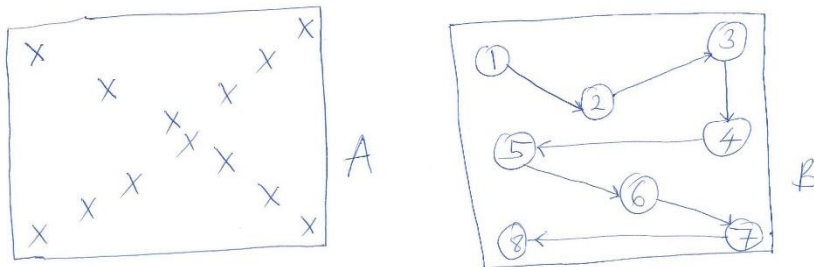
(2mks)

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SECTION 20 MKS

Answer all questions in this section.

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



a) Identify the soil sampling methods shown above.

(2mks)

A.....

B.....

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

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

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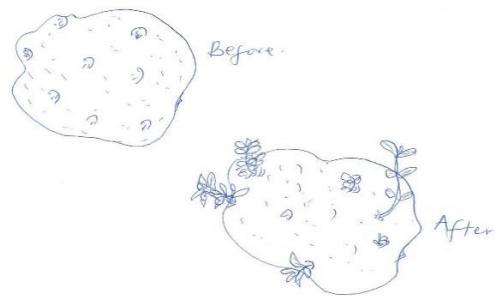
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18. Study the diagram below and answer the questions



a) Name the practice above. **(1mk)**

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

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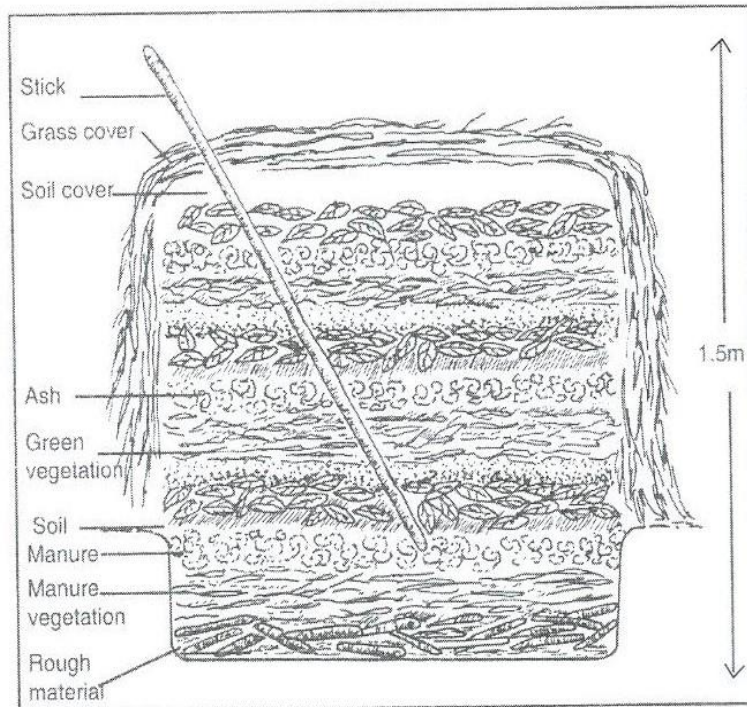


c) Name two methods used when planting crops.

(2mks)

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



a) Identify manure preparation method above.

(4mks)

i) Wood ash

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.....

ii) Rotten manure

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.....

iii) Stick

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.....

iv) Top soil

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.....

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

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SECTION C: 40 MKS

Answer any two questions in this section

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

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

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

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

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

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

BRILLIANT STUDENTS FORM 2 END TERM 2 SERIES 2 EXAMS

NAME:

SCHOOL:

ADM NO: SIGN: DATE:

FORM TWO

BIOLOGY

TIME: 2 HOURS

INSTRUCTIONS TO THE CANDIDATES

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

FOR EXAMINERS USE ONLY

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

SECTION A (60MARKS) ANSWER ALL QUESTION

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

a) Nutrition **(1mk)**

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b) Excretion **(1mk)**

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.....

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

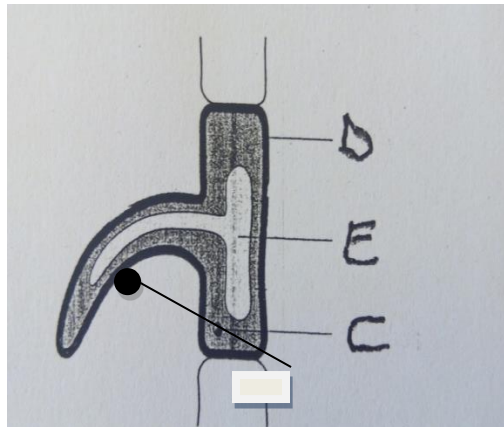
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3. Which organelle would be abundant in: **(2mks)**

a) Skeletal muscle cell

b) Palisade cell

4. The diagram below shows a specified plant cell



i. Name the cell **(1mk)**

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.....

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

D

E

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

a) Objective lens

.....
.....

b) Diaphragm

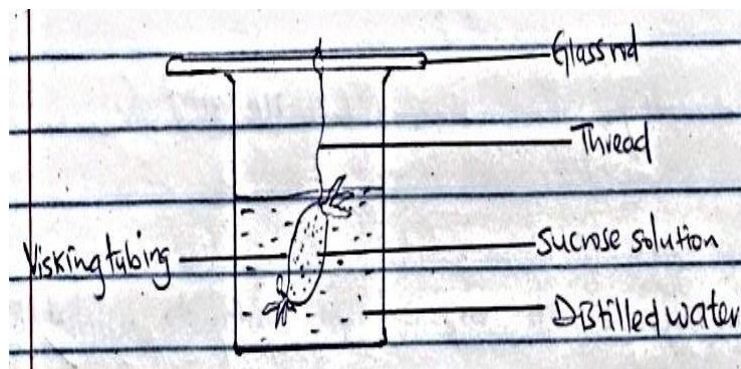
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6. Using a microscope, a student counted 55 cells across a field of view whose diameter was $6000\mu\text{m}$. Calculate the average length of cells. Show your working. (2mks)

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

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b) An experiment was set as shown below



The set up was left for 30 minutes.

(i) State the expected results (1mk)

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

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

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9.What is meant by the following terms?

(i) Crenated cell (1mk)

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(ii) Flaccid cell (1mk)

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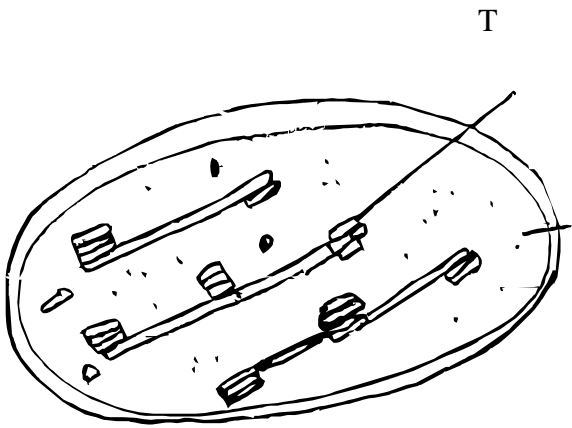
10. Distinguish between heterotrophism and autotrophism (2mks)

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11. Study the diagram below



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

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

Pigment.....

Function.....

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

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

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13. State three properties of monosaccharide (3mks)

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

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15

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

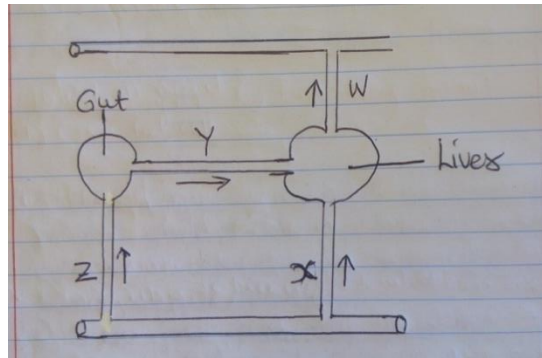
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b) State three roles of saliva during digestion (3mks)

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



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

Y.....

Z.....

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

.....

17.

a) What is active transport? (1mk)

.....

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

.....

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

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

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

i. Pooter

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ii. Sweep net

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iii. Chloroform

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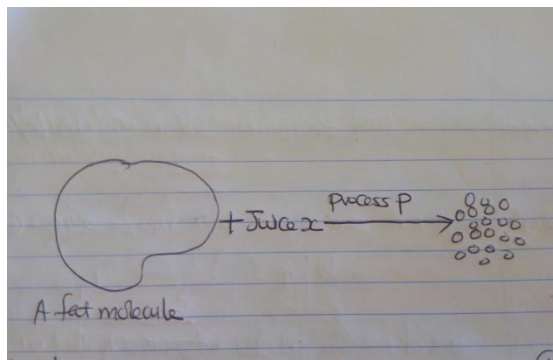
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iv. A pair of forceps

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



a) Name process P **(1mk)**

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

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

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

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

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SECTION B: 40 marks

Question 21 is compulsory

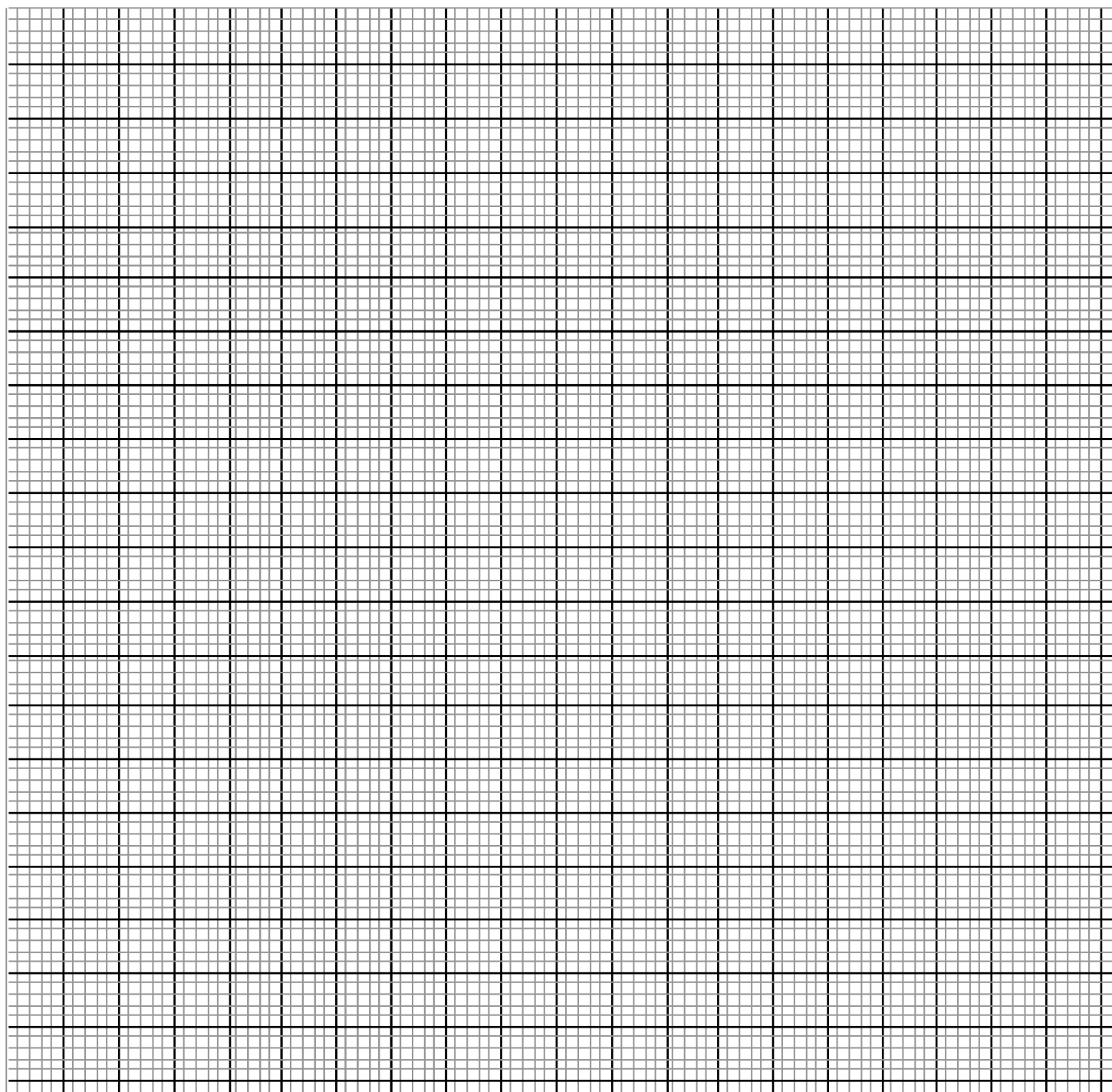
Answer question 21 and either question 22 or 23

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

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

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

6mks



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

2mks

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.....

c. Account for the shape of the graph between

(i) 5°C and 40°C

2mks

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(ii) 45°C and 60°C

3mks

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d. Other than temperature name two ways in which the rate of reaction between 5°C and 40°C could be increased.

2mks

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e.

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

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

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

i. Where does the neutralization take place?

(1mk)

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.....

ii. Name the substance responsible for neutralization.

(1mk)

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.....

BRILLIANT STUDENTS FORM 2 END TERM 2 SERIES 2 EXAMS

NAME:

SCHOOL:

ADM NO: SIGN: DATE:

FORM TWO

BUSINESS STUDIES

TIME: 2 HOURS

INSTRUCTIONS:

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

For examiners use only.

Question	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Candidate score															

Question	16	17	18	19	20	21	22	23	24	25
Candidate score										

TOTAL MARKS

1. Outline four sources of capital for a sole-proprietorship type of Business. **(4mks)**

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2. Classify the following trade as home trade or foreign trade.

Trade	Classification
a) Import trade	
b) Retail trade	
c) Export trade	
d) Wholesale trade	

3. State four disciplines that are studied in Business studies. **(4mks)**

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4. List four ways in which government creates a viable working environment for business people. **(4mks)**

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5. Highlight four external factors that may negatively influence the operation of a business. **(4mks)**

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6. Outline four characteristics of secondary wants. **(4mks)**

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7. Highlight four benefits of proper filling to a business organization. **(4mks)**

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8. Highlight four factors that may lead to success of a business. **(4mks)**

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9. Outline four advantages of division of labour.

(4mks)

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10. State four types of complaints that consumer organization may receive from consumers. (4mks)

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11. State four circumstances under which co-operative society may be dissolved.

(4mks)

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12. List four forms of retail businesses that a school leaver may engage in.

(4mks)

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13. Highlight any four personal attributes that a personal secretary should possess. (4mks)

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14. A business opportunity exist where there is a market gap. Outline four such market gaps. (4mks)

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15. In the spaces provided below, indicate the type of utility created by each of the following business activities.

Commercial activity	Types Utility
a) Selling goods to customers	
b) Transporting goods.	
c) Store keeping	
d) Making chair	

16. Give four differences between goods and services. (4mks)

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17. State whether each of the following factors fall under micro-environment or macro-environment. (4mks)

- a) Competitive environment.
- b) Legal-political environment.
- c) Business structure
- d) Business culture.

18. Give four public utilities that the county government of Meru provides to its citizens. (4mks)

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19. List four contents of memorandum of association. (4mks)

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20. Outline four circumstances under which a trader would prefer to be paid in cash rather than other means of payments. (4mks)

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21. Outline four factors that should be considered before buying office equipment. (4mks)

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22. Reasons why a business should prepare a business plan.

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23. For each of the following production activities indicate whether it is a direct or indirect type of Production.

Activity	Types of production
a) An individual washing his own clothes	
b) An individual supplying beef.	
c) An individual operating a kiosk	
d) An individual producing maize for his family's consumption	

24. State four roles of the Nairobi Stock Exchange Market as a market for securities. (4mks)

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25. Outline four characteristics of a supermarket.

(4mks)

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BRILLIANT STUDENTS FORM 2 END TERM 2 SERIES 2 EXAMS

NAME:

SCHOOL:

ADM NO: SIGN: DATE:

FORM TWO

CHEMISTRY

2 HOURS

Instructions to candidates:

1. Answer **all** questions in both section A and B.
2. All working must be clearly shown and, in the spaces, provided.

FOR EXAMINER'S USE ONLY

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

1[a] what is an atom?

[1mk]

.....
.....

[b] Distinguish between atomic number and mass number

[1mk]

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.....
2. Name two sub-atomic particles

[2mks]

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.....
3. Element P has two isotopes P_{30}^{60} and P_{30}^{61} which occur in the ratio X:2. Given that its R.A.M is 60.4.

Calculate the value of X

[3mks]

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

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

[2mks]

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

[2mks]

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

[a] Iodine and potassium chloride

[1mk]

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.....

[b] Water and ethanol

[1mk]

.....
.....

[c] Table salt dissolved in water

[1mk]

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.....
.....

6. Fill the table below

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

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

{i} State three such rules to be observed

[3mks]

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{ii} Most of the laboratory apparatus are made of glass. Give two reasons

[2mks]

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.....

Which of the solutions was most likely to be;

[i]Distilled water

[1mk]

.....

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

[2mks]

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.....

[iii]An oxide of sulphur. Explain your answer

[2mks]

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

[2mks]

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.....

[b]Name two commonly abused drugs in Kenya

[1mk]

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.....
.....

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

[2mks]

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SECTION B

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

K	L		M		N		P	Q
	R		S			T	U	
W								

[a] State the letter that represents an element that

[i] Belongs to period 3

[2mks]

.....

[ii] Belongs to group 2

[1mk]

.....

[iii] Forms ions with a charge of +3

[1mk]

.....

[iv] forms ions with a charge of +1

[1mk]

.....

[v] Forms ions with a charge of -1

[1mk]

.....

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

[2mks]

.....
.....

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

[i]Atomic radius P and U

[2mks]

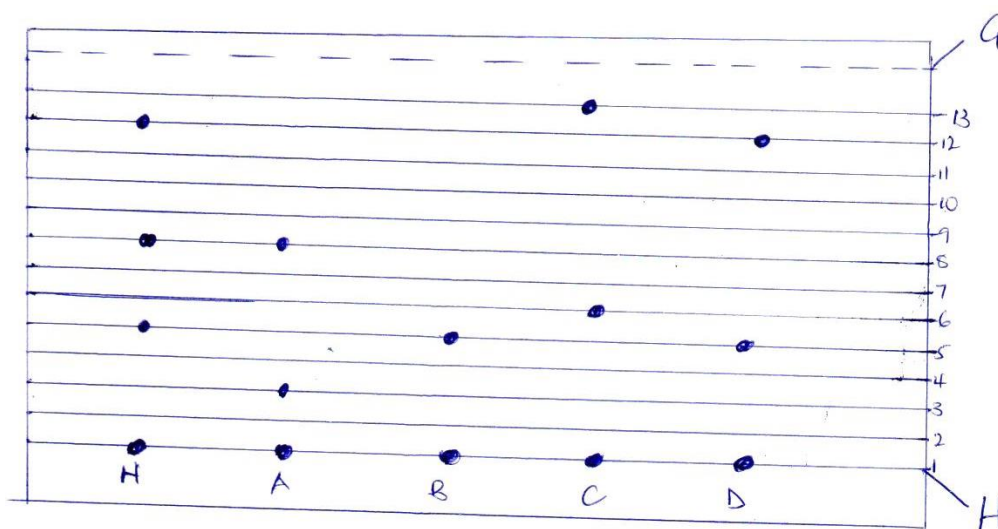
[ii]Ionic and atomic radius of L

[2mks]

[iii]ionic and atomic radius of U

[2mks]

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



[a]Label [2mks]

[i]G.....

[ii]H.....

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

.....

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

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

.....

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

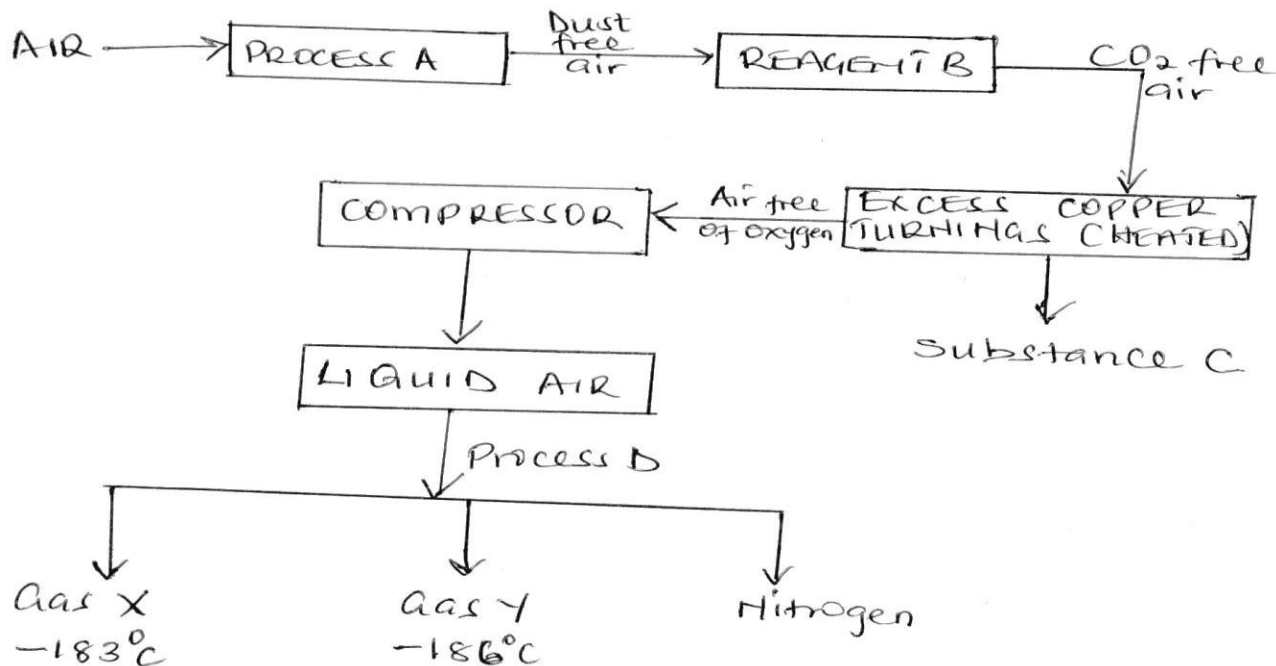
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[f]State two application of paper chromatogram [2mks]

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



[a] Identify

[i] Gas x [1mk]

[ii] Gas y [1mk]

[iii] The temperature at which Nitrogen is distilled out

..... [1mk]

[b] Name

i. Process A [1mk]

ii. Reagent B [1mk]

iii. Substance C [1mk]

iv. Process D [1mk]

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

.....

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

.....
.....

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

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

[i]Explain why;

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

[1mk]

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.....
.....

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

[1mk]

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.....
.....

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

[2mks]

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.....
.....

[d] Explain why D has the highest melting point

[1mk]

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.....

[e] Why is G having smallest atomic size

[1mk]

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BRILLIANT STUDENTS FORM 2 END TERM 2 SERIES 2 EXAMS

NAME:

SCHOOL:

ADM NO: SIGN: DATE:

FORM TWO

CHRISTIAN RELIGIOUS EDUCATION

TIME 2 ½ HRS

Instructions to candidates:

- 1. This paper consists 6 questions*
- 2. Answer any 5 questions in the answer booklet provided.*

Questions	1	2	3	4	5	6
Marks						

- 1 a) Mention 6 plagues God sent to the Egyptians **(6mks)**
b) Describe how God prepared the Israelites for the making of the covenant at Mt. Sinai. Exodus 19 **(8mks)**
c) What do Christians learn about the nature of God from the exodus. **(6mks)**
- 2 a) Outline 6 duties of judges in Israel. **(6mks)**
b) List down the promises that God gave to King David through Prophet Nathan. **(6mks)**
c) Explain the 4 lessons that Christians learn from king Saul's failures. **(8mks)**
- 3 a) Write down 6 rules and regulations observed by expectant mothers in the traditional African society. **(6mks)**
b) Give reasons why children are important in the traditional African society. **(7mks)**
c) State 7 moral values that the youth are taught during initiation to adulthood in Traditional African society. **(7mks)**
- 4 a) List down 8 prophet Micah's prophecies about the messiah. **(8mks)**
b) What were the Jewish expectations of the messiah. **(7mks)**
c) State the role of the messiah according to prophet Isaiah. Isaiah 61:1-2 **(5mks)**
- 5 a) Give 6 reasons why Jesus accepted to be baptized yet he was sinless. **(6mks)**
b) Describe the temptations of Jesus in the wilderness. Lk 4: 1 -13 **(8mks)**
c) What lessons do Christians learn from the temptations of Jesus. **(6mks)**
- 6 a) Outline 6 characteristics of John the Baptist as given by angel Gabriel to Zechariah Lk 1 :13 – 18 **(6mks)**
b) Explain 4 differences between the annunciation of the birth of John and that of Jesus. **(8mks)**
c) How do Christians celebrate the birth of a newly born baby in the society today? **(6mks)**

BRILLIANT STUDENTS FORM 2 END TERM 2 SERIES 2 EXAMS

NAME:

SCHOOL:

ADM NO: SIGN: DATE:

FORM TWO

ENGLISH PAPER 1

TIME: 1 HOUR 30 MINUTES

INSTRUCTIONS:

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

ANSWER ALL THE QUESTIONS.

1.Functional Writing

(20mks)

- a) Imagine that your brother just graduated from Egerton University and has requested you to design an invitation card that will be used to invite guests for his graduation party. Design the card.

(12mks)

2. **Fill in the blank spaces with the most appropriate word. (10 mks)**

At home, Jennifer was getting uneasy. It was late and yet Joseph had not returned home. food was waiting for him the fire. The fire was dwindling and she could not add more firewood it lest there was not enough of it for the following morning. Sheby the fire hoping that he come home the very next minute. In the end, she could not..... for him any longer. She went to bed. He would her up when he came. Sleep took her almost She did not wake up.....until morning.

3. **Identify the silent letters in the following words. (5mks)**

- a) Would –
- b) Debt
- c) Rhyme –
- d) Edge –
- e) Sketch –

ii) **in the following sentences state whether the word underlined has been used either as a verb or a noun. (3mks)**

- a) Kindly keep a record of all your books.
- b) To always conduct yourself right is good.
- c) After the heavy rains, the cattle keepers will get good produce.

iii) **Write the homophones of the following words. (2mks)**

- a) Quite –.....
- b) Dairy -.....

BRILLIANT STUDENTS FORM 2 END TERM 2 SERIES 2 EXAMS

NAME:

SCHOOL:

ADM NO: SIGN: DATE:

FORM TWO

ENGLISH PAPER 2

TIME: 2 HOURS

INSTRUCTIONS:

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

1.COMPREHENSION

Read the comprehension below and answer the questions that follows:

DRUGS AND THE YOUTH

How does drug use become a habit? In many cases the young experimenters take drugs until they are hooked. In homes where one or both parents smoke or use alcohol, the young people interpret this as their parents' permission for them to do the same. Thus, they are easily vulnerable to the appeals of their fellow teenagers when they urge them to join them in experimenting with cigarettes, liquor, and even marijuana. These three practices – smoking tobacco, drinking liquor and smoking marijuana – are a tragic combination. More often than not, the teenagers may try more potent drugs such as cocaine. Not everyone, of course, who smokes cigarettes and drinks liquor, indulges in drug abuse as we usually define it. But practically every person on hard drugs first used cigarettes, liquor and marijuana.

Teenagers are often cautioned to be on guard against drugs peddlers. However, it is the teenage sellers who usually supply the drugs that students use. They encourage their friends to experiment with drugs, from which they profit financially. One young people have used a drug enough times to experience its effects, they no longer have to be persuaded. What are these effects? The drug influences their thinking, their attitudes and their moods. It makes the circumstances of life seem different from reality. It makes the users feel comfortable, peaceful and secure, in spite of their problems, their anxieties or their lack of ability.

The teenagers or young adults struggling with unsolved problems are the most likely candidates for drug addiction. But drugs do not help them face reality with courage. On the contrary, they make them less willing to cope with life's difficulties and stresses, or even unable to do so. Why should they put forth the effort to solve their problems when? Under the influence of drugs, these problems seem to vanish?

It is said the typical heroin addicts are 17 years old males who are out of school, out of work and ashamed or embarrassed because of impoverished family backgrounds. This does not mean, however, that teenagers from well-to-do families are immune to the danger. Young people from 'good families' have their problems too. There may be unresolved tensions between them and their parents. They may be lonely, even though they are members of respectable families. They may feel unable to live up to their parents; expectations. They may feel guilty over some previous misconduct, or feel betrayed by someone their own age.

Questions

(20 mks)

1. How do parents influence their children to take drugs?

(2mks)

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2. Why are the three practices – smoking tobacco, drinking liquor and smoking marijuana are described as a tragic combination?

(2mks)

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3. Despite teenagers being warned to be on the lookout for drug peddlers, they still access the drugs, why?

(2mks)

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4. What are the effects of drugs on teenagers as given in the passage? Write any four effects. **(4mks)**

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5. Why do drugs make the teenage user unable to face life with courage? (2mks)

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6. Why are teenagers from poor families prone to heroin addiction? (2mks)

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7. According to the passage, why do some young people from the so-called good families get addicted to drugs? (4mks)

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

i) Hooked –

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ii) Immune –

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2. READ THE ORAL NARRATIVE BELOW AND ANSWER THE QUESTIONS THAT FOLLOW.

THE YOUNG WARRIOR.

Once upon a time, there lived an old couple and their only son. They lived at the edge of a village. The young man was well liked because he took such good care of his old parents. He was also skilled warrior. One night, the old couple and their son heard loud anguished cries from the other side of the village. The valiant young man ran in the direction of the cries.

He was horrified at what he found. Many huts had been flattened as if by a giant foot. Some huts were burning and people were crying that their cattle and family members were gone.

“what happened here?” the young warrior asked.

“It is an ogre!” a woman cried out fearfully.

“It came out of the forest,” said an old man. “It promised that it will come again.”

“Yes, save us,” cried a child. “You are big and strong and brave.”

But the young warrior would not go after the ogre. “Why go after the ogre and make him even more angry?” he said.

A few days passed. The ogre came back . it flattened more houses, swallowed more people and burnt more huts. Again, the people begged the warrior to help and, again, he said he would not go after the ogre.

“That is probably the last time it will come here,” he said.

Some days later, the ogre came back while the young man was away with his age mates at a wedding dance. This time, it swallowed the young warrior’s mother. How do you think the young warrior felt when he came back from the dance? Well, the warrior set out immediately to look for the ogre. After walking for half a day, he came across the ogre sleeping deeply and snoring like thunder. The warrior rushed forward and brought his long, sharp knife down hard on the ogre’s neck, but it just bounced off.

“My son, cut the small toe,” he heard a weak voice say.

The warrior looked around but could not see anyone. The voice sounded like that of his mother, but he was not sure because he could also hear the muffled sounds of the people and cattle the ogre had swallowed. He brought his long, sharp knife down on the ogre’s stomach, hoping to free them, n=but it only bounced off!

Again, the feeble voice came, “Cut the small toe, my son.”

This time the warrior decided to obey the voice. He cut the ogre’s small toe. It was very easy, as easy as cutting through ghee with a hot knife. Suddenly, out of the ogre’s small toe came villages of people and cattle.

The people were very glad to be out of the ogre’s belly, and the warrior was very glad to be reunited with his mother.

“Next time I tell you to do something, you had better do it right away. Some people and cattle are lost forever because you did not cut the small toe right away!” the young hero’s mother told him.

The people told the old lady to be at peace. At least the young warrior had saved whole villages. The young warrior was a hero. Up to today, the villagers sing his praises.

Questions.

1.Classify the narrative above. **(2mks)**

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2. Why was the warrior hesitant to go after the ogre at first? **(2mks)**

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3. What finally motivated the warrior to change his mind and ran after the ogre? **(2mks)**

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4. Write a list of three extra-ordinary events and situations in this narrative. **(3mks)**

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5.Describe any two character traits of the warrior. **(4mks)**

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6. Name and explain two stylistic devices in the narrative that make a narrative more interesting during narration. (4mks)

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7. Discuss one social activity and one economic activity that this community practice. (2mks)

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8. Give any other relevant title tom this narrative. (1mk)

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3. GRAMMAR

i) Use the correct order of adjectives to fill in the gaps.

- a) Kaari is a (Kenyan ,basketball, brilliant, short) player.
- b) My laptop is very efficient (small, ugly old, grey)
- c) My aunt bought a(leather, blue, nice) sweater.
- d) Every student has a(long, Kenyan, beautiful, rectangular, red) geometrical set.



ii) Fill in the gaps by using the correct form of the words in brackets.

- a) The NGOs completed this water project than the previous one.
(successfully)
- b) Oduor , the winner, walkedin the competition (fast)

iii) Fill in the blank spaces with either and, but or Or

- a) He wanted to talk on the phone while driving ,..... I convinced him not to.
- b) The girl took the ball.....ran out of the house.
- c) You will have to wake up early you will miss the school bus.
- d) The company employed Daniel later sent him abroad for further studies.

iv) Use the correct forms of the nouns in brackets

- a) One finger cannot kill(lice)
- b) Not a single has my grandmother lost. (teeth)
- c) I need a lot of on this matter. (advice)

v) choose the correct alternative from the brackets to complete these sentences.

- a) These (drivers, driver's , drivers') licences have been stolen.
- b) The judge heard these (woman's, women's)n case.
- c) What happened to this (baby, babies, baby's, babies) food?

v) Fill in each gap with the most appropriate preposition

- a) What else go you watch old movies?
- b) The insect my nostrils really irritated me.

vi) Fill in the blanks spaces by using the correct forms of the verbs in brackets.

- a) The ill-mannered chickens all over the place that evening (spit)
- b) Njoroge the coat so well that no one found it. (hide)

BRILLIANT STUDENTS FORM 2 END TERM 2 SERIES 2 EXAMS

NAME:

SCHOOL:

ADM NO: **SIGN:** **DATE:**

FORM TWO

GEOGRAPHY

TIME: 2 HOURS 30 MINUTES

INSTRUCTIONS:

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

SECTION A

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

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b) State three effects of the earth revolution.

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

i) Centrifugal force

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ii) Centripetal force

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iii) Gravitation force

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

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

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

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

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

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SECTION B

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

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

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

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

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

Find:

i) The total annual rainfall. **(2 mks)**



ii) The wettest month. (1 mk)

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iii) Annual range of temperature. (2 mks)

iv) Mean annual rainfall. (2 mks)

v) The hottest month. (1 mk)

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

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

(3 mks)

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

(8mks)

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

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

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

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

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

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

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

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b) Classify the rocks listed in the table below.

(5 mks)

Name of rock	Class
Marble	
Gneis	
Peridotite	
Sandstone	
Granite	

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

(2 mks)

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ii) State four factors that influence metamorphism in rocks.

(4 mks)

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d) State two characteristics of sedimentary rocks.

(2 mks)

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

(2 mks)

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

I. Kereita in Limuru Kenya –

II. Geita in Tanzania –

III. Kilembe in Uganda –

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

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

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

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BRILLIANT STUDENTS FORM 2 END TERM 2 SERIES 2 EXAMS

NAME:

SCHOOL:

ADM NO: SIGN: DATE:

FORM TWO

HISTORY

TIME: 2 HOURS 30 MINUTES

INSTRUCTIONS:

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

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

SECTION A**(25 MARKS)****Answer ALL questions in this section.**

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

SECTION B**(45 MARKS) Answer any THREE questions in this section.**

18. (a) Identify three methods used by archaeologists to date fossils. **(3 mks)**
(b) Describe the way of life of the early man in the New Stone Age period. **(12 mks)**
19. (a) Give five reasons that made man to start practising agriculture. **(5 mks)**
(b) Explain five causes of food shortages in developing countries. **(10 mks)**

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

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

SECTION C: 30 MARKS Answer any TWO question in this section.

22. (a) State three rights that a jailed person is denied. **(3 mks)**
(b) Explain six methods of peaceful resolution of conflicts. **(12 mks)**
23. (a) Give three councils in the Ameru political system. **(3 mks)**
(b) Explain the political organization of the Agikuyu in the pre-colonial period. **(12 mks)**
24. (a) Give five reasons why the Christian missionaries established mission stations in Kenya in the 19th century. **(5mks)**
(b) Explain five factors that led to the development of plantation agriculture along the East African coast in the 19th century. **(10mks)**

BRILLIANT STUDENTS FORM 2 END TERM 2 SERIES 2 EXAMS

NAME:

SCHOOL:

ADM NO: SIGN: DATE:

FORM TWO

441/1 HOME SCIENCE THEORY

TIME: 2½ HOURS

Instructions to candidates:

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

Section	Question	Maximum Score	Candidate's Score
A	1 - 18	40	
B	18	20	
C	19	20	
	20	20	
	21	20	
TOTAL		100	

SECTION A:

Answer all the questions in this section.

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

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

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

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

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

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

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

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

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

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

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

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SECTION C: Answer any two questions in this section.

(40marks)

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

(10mrks)

- (i) Spool pin
- (ii) Balance wheel
- (iii) Stop motion screw
- (iv) Stitch length regulation
- (v) Feed dog
- (vi) Presser foot
- (vii) Needle clamp
- (viii) Tension disk
- (ix) Take up lever
- (x) Machine belt

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

- (i) Used for measuring small width such as hem. **(1mrk)**
- (ii) Used for marking pattern symbols. **(1mrk)**
- (iii) Used for hanging complete or nearly complete garments. **(1mrk)**
- (iv) Used for making holes and eyelets. **(1mrk)**
- (v) Used when fitting garments. **(1mrk)**
- (vi) For storing small needle work tools. **(1mrk)**
- (vii) For measuring long straight lines and for marking skirt length. **(1mrk)**
- (viii) Used to press work after every stage of construction. **(1mrk)**

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

(2mrks)

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

(6mrks)

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

(6mrks)

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

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

(6mrks)

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

(6mrks)

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

(8mrks)

BRILLIANT STUDENTS FORM 2 END TERM 2 SERIES 2 EXAMS

JINA:

SHULE:

NAMBARI YA USAJILI: SAHIHI: TAREHE:

KIDATO CHA PILI

MUDA: SAA 2

MAAGIZO:

Jibu maswali yote katika mtihani huu.

UFAHAMU (ALAMA 15) Soma taarifa ifuatayo kisha ujibu maswali yanayofuatia.

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

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

Taratibu, Abdul aliendelea kupiga hatua. Mhemko aliokuwa nao kutokana na hewa safi iliyompenya mapafuni uliufanya moyo wake upige kwa kasi. Ghafla, tabasamu ikapasua mashavuni pake. Akasita. Akaiinua pua yake iliyompa hakikisho kuwa uvundo na uozo wa seli haukuwa naye tena. Ingawa mwili wake ulijaa mabaka ya uchafu na matambara yaliyouficha uchi wake kuvunda, hilo halikumkera tena. Kwa hivyo, akatia tena

tabasamu. Lake kuu lilikuwa shukrani kwa kuepuka yale madhila ya joto na rundo la wafungwa. Na kama hilo halikutosha, aligeuka tena ili sasa kuliangalia lile gereza. Bila kutarajia, alipiga magoti, akainua mikono kupiga dua, —Ewe Mungu, niepushe na balaa nyingine.

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

Hapo kituoni, matatu iliyokuwa mbele ilikuwa na watu wachache. Abdi akaingia na kukaa upande wa kioo ambapo tafakuri nyingi zilimjia. Akakumbuka jinsi kesi yake ilivyoendeshwa kinyume kabisa na ukweli na hukumu kutolewa kinyume cha haki. Mimi Abdul, mtoto twaa tangu kuzaliwa kwangu hata mdudu sijawahi kumponda kwa udole wangu, ndiyo sasa nije kusingiziwa kuu mtu? Mungu wangu! Kwa nini dunia hii haina wema? Kwa nini wanaodaiwa kuwa wasomi hata wakapewa jukumu la kuwakilisha maslahi ya raia ndio wanaowadhulumu hao raia? Hivi, hata hukumu na tajiriba yake aliamua kufuatilia zile porojo za wanaojiita majasusi? Angeahirisha hukumu yake ili kufanya uchunguzi zaidi, bila shaka nisingepata mapigo na dhuluma hizo zote. Kwa kweli, hii ni dunia ya mwenye nguvu mpishe! Abdul alijisemea. **Maswali**

(a) Kwa nini Abdul alifungwa?

(alama 2)

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

(alama 4)

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

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

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

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

(i) Ombwe.....

(ii) Mhemko.....

a) Eleza tofauti kati ya sauti hizi.

Alama 4

i) /y/ na /z/

.....
.....

ii) /t/ na /h/

.....
.....

b) Andika katika ukubwa wingi.

Alama 2

Ndovu amezaa ndama mkubwa sana.

.....
.....

c) Toa mfano wa neno lenye silabi ya konsonanti pekee

alama 1

.....
.....

d) Akifisha

alama 2

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

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e) Amrisha katika nafsi ya tatu wingi.

Alama 2

Uandike insha ndefu.

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

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

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.....

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

Chebet aliingia garini na kufunga kioo.

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

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i) Ainisha mofimu katika: **alama 3**

Alinywewa maziwa

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

Mhazigi atakuwa ameiunganisha mifupa iliyovunjika

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

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l) Neno hili limo katika ngeli gani? **Alama 1**

Kinda



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

Kundi la wachawi lilitiwa mbaroni jana.

.....
.....

n) Andika katika wingi **alama 2**

Mtoto wake alilelewa kwenye ukoo huu

.....
.....

o) Yakinisha **alama 2**

Wakulima wasipopalilia mahindi yao hawatapata mazao.

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.....

p) Pambanua sentensi ifuatayo kwa kielelezo cha mstari **alama 4**

Mwanahamisi alilishona rinda lake vizuri.

q) Ainisha viambishi katika neno lifuatalo **alama 3**

Waliochezewa

a) Eleza sifa zozote tano za hadithi

(alama 10)

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b) Eleza sifa za mtambaji bora wa ngano

(alama 10)

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BRILLIANT STUDENTS FORM 2 END TERM 2 SERIES 2 EXAMS

NAME:

SCHOOL:

ADM NO: SIGN: DATE:

FORM 2

MATHEMATICS

TIME: 2 1/2 HOURS

END OF TERM TWO

MATHEMATICS

INSTRUCTIONS TO CANDIDATES

1. Write your name, admission number and school in the spaces provided.
2. This paper consists of two sections; **Section I** and **Section II**.
3. Answer ALL the questions in Section I and Section II.
4. All answers and working must be written on the question paper in the spaces provided below each question.
5. Show all the steps in your calculations, giving your answer at each stage in the space provided below each question.
6. Marks may be given for correct working even if the answer is wrong.
7. Non programmable silent electronic calculators and **KNEC** mathematical tables may be used except where stated otherwise.
8. Candidates should check the question paper to ascertain that all pages are printed as indicated and that no questions are missing.

FOR EXAMINERS USE ONLY

SECTION I

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

SECTION II

Question	17	18	19	20	21	TOTAL
Marks						

Grand Total

SECTION I (50 Marks)

Answer all questions in the spaces provided

1. Evaluate

$$\frac{-3(4+2)-8 \div 4 + 3}{-2 \times -4 + -6 \times 5}$$

(3 marks)

2. Find the value of x, which satisfies the equation.

$$16^{x^2} = 8^{4x-3}$$

(3 marks)

3. Evaluate;

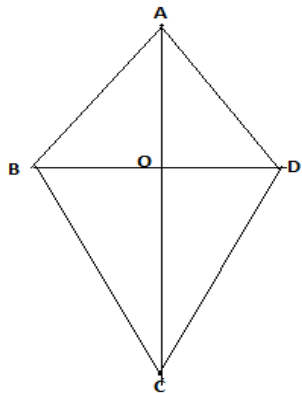
(3 marks)

$$14 \div \frac{1}{3} \text{ of } 5\frac{1}{4} - 3\frac{3}{4} \times 1\frac{1}{3}$$

4. Find the length of a square whose diagonal is 8cm to one decimal place

(3 marks)

5. The figure below represents a kite ABCD, $AB = AD = 15\text{cm}$. The diagonals BD and AC intersect at O, $AC = 30\text{cm}$ and $AO = 12\text{cm}$.



Find the area of the kite.

(3 marks)

6. Using logarithm tables evaluate;

(4 marks)

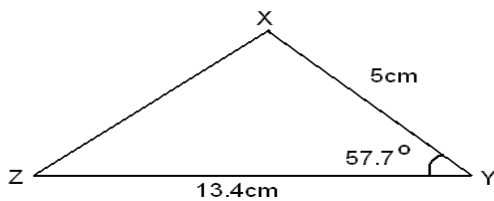
$$\sqrt[3]{\frac{4.684 \times 2.497}{\tan 87^\circ}}$$

7. A straight line L passes through the point (3, -2) and is parallel to a line whose equation is $2y - 4x =$

1. Find the equation of line L in the form $y = mx + c$.

(3 marks)

8. The figure below is a triangle XYZ. $ZY = 13.4\text{cm}$, $XY = 5\text{cm}$ and $\angle XYZ = 57.7^\circ$



Find the area of triangle XYZ.

(3 marks)

9. Using a ruler and a pair of compass only, construct a parallelogram ABCD such that $AB = 8 \text{ cm}$, $BC = 6 \text{ cm}$ and angle $ABC = 135^\circ$.

(3 marks)

10. Write the following as a single fraction

(3 marks)

$$\frac{(2x+1)}{4} - \frac{2x-1}{3}$$

11. Calculate the length of an arc of a circle radius 14cm that is subtended by an angle 22.5° at the centre **(3 marks)**

12. Given that $\cos A = \frac{5}{13}$ and angle A is acute, find the value of $2 \tan A + 3 \sin A$. **(3 marks)**

13. Two similar containers have base areas of 750 cm^2 and 120 cm^2 respectively.

a) Find the ratio of their radii **(1 mark)**

b) Find the ratio of their volume. **(1 mark)**

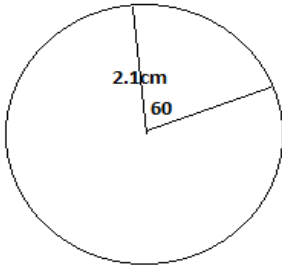
- c) Calculate the volume of the larger container if the volume of the smaller container is 400cm^3 **(2 marks)**

14. A plane leaves town P to town Q on a bearing of 130° and a distance of 350 km. it then flies to town R 500km away and on a bearing 060° . Find by scale drawing the distance of R from P **(3 marks)**

15. Simplify the expression; **(3 marks)**

$$\frac{2t^2 - 3pt - 2p^2}{4t^2 - p^2}$$

16. If O is the center of part of the circle shown below, find the area of the figure (3 marks)



SECTION II (50 Marks)

Answer ALL questions in this section in the spaces provided.

17. Saleswoman is paid a commission of 2% on goods sold worth over Ksh 100 000. She is also paid a monthly salary of Ksh 12 000. In a certain month, she sold 360 handbags at Ksh 500 each.
- a. Calculate the saleswoman's earnings that month. (3 marks)

b. The following month, the saleswoman's monthly salary was increased by 10%. Her total earnings that month were Ksh 17 600.

Calculate

i) the total amount of money received from the sales of handbags that month; **(5 marks)**

ii) The number of handbags sold that month. **(2 marks)**

18. A triangle whose vertices are $A'(-2, -2)$, $B'(-4, -1)$ and $C'(-3, 1)$ is an image of a triangle whose vertices are $A(1, 1)$, $B(2, 3)$ and $C(4, 2)$ under a rotation.

- a) On the grid below, draw the x and y axes such that values of x range between -6 and 6 and values of y range between -7 and 3 . **(1 mark)**

Provide a graph paper

- b) Draw the triangles ABC and $A'B'C'$ on the same axes. **(2 marks)**

- c) Hence determine the centre and angle of rotation. **(4 marks)**

- d) $A''B''C''$ is the image of $A'B'C'$ under enlargement centre $(-2, 3)$ and scale factor 2 . Draw $A''B''C''$ and state its coordinates. **(3 marks)**

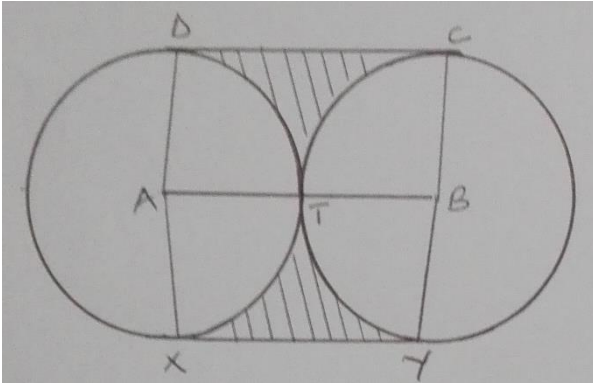
19. A small cylinder of radius 3.5cm and height 10 cm has a mass of 385 kg , Calculate

a) The volume of the cylinder in m^3 (Take $\pi = \frac{22}{7}$) **(3 marks)**

b) The density of the materials making the cylinder in kg/m^3 **(2 marks)**

c) The cylinder was melted and the molten materials recasted into four identical cuboids each of a square base of side x cm and height 10cm. Determine the value of x to 4 significant figures.
(5 marks)

20. The figure below shows two circles each of radius 10.5 cm with centres A and B. the circles touch each other at T.



Given that $\text{angle } XAD = \text{angle } YBC = 160^\circ$ and lines XY, ATB and DC are parallel. Calculate the area of:

- a) The minor sector AXTD (2 marks)

- b) Figure AXYBCD (6 marks)

c) The shaded region (2 marks)

21. A glass of radius 3 cm in the form of a cylinder contains water to a height of 9 cm.

a. Find the volume of the water in the glass correct to 2 decimal places in cubic centimetres.

(2 marks)

b. When a spherical marble is submerged into the water in the glass, the water level rises by 1 cm.

Calculate;

i. The volume of the marble correct to 2 decimal places. (2 marks)

ii. Radius of the marble correct to 2 decimal places. (3 marks)

iii. If the height of the glass is 13 cm, calculate the surface area of glass not in contact with water after the above process. (3 marks)

BRILLIANT STUDENTS FORM 2 END TERM 2 SERIES 2 EXAMS

NAME:

SCHOOL:

ADM NO: SIGN: DATE:

FORM TWO

PHYSICS

2 HOURS

INSTRUCTIONS TO LEARNERS

1. This paper has two sections A and B. Answer all the questions in both sections.
2. Show your calculations in the spaces provided.
3. Take $g = 10\text{N/kg}$ where needed to use it.

SECTION	QUESTION	MAXIMUM SCORE	CANDIDATES SCORE
A	1 - 12	25	
	13	7	
	14	4	
	15	6	
B	16	7	
	17	10	
	18	7	
	19	8	
	20	8	
	TOTAL SCORE	80	

SECTION A

(25 MARKS)

1. State the basic law of magnetism

(1 mk)

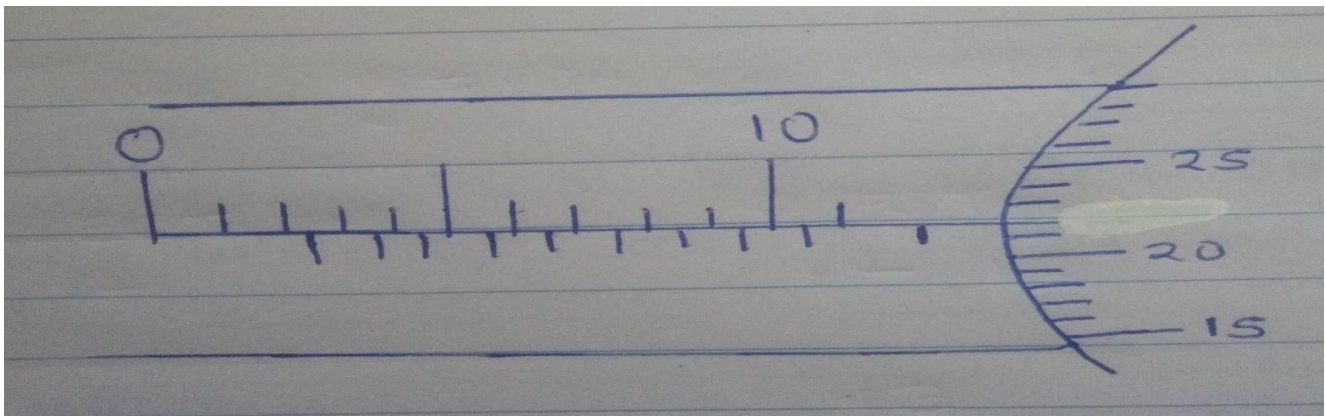
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2. The figure below shows a micrometer screw gauge being used to measure the diameter of a ball

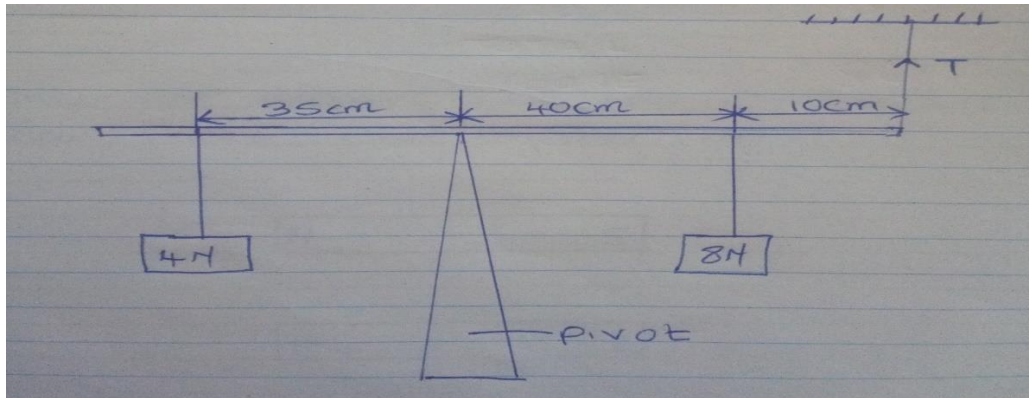
Bearing



The thimble scale has 50 divisions. What is the reading?

(2 mks)

3. The figure below shows a uniform metal rod balanced at its centre by different force.



Determine the value of T

(3mks)

4. Give two reasons why when alighting from a moving bus a person has to spread out his legs. (2mks)

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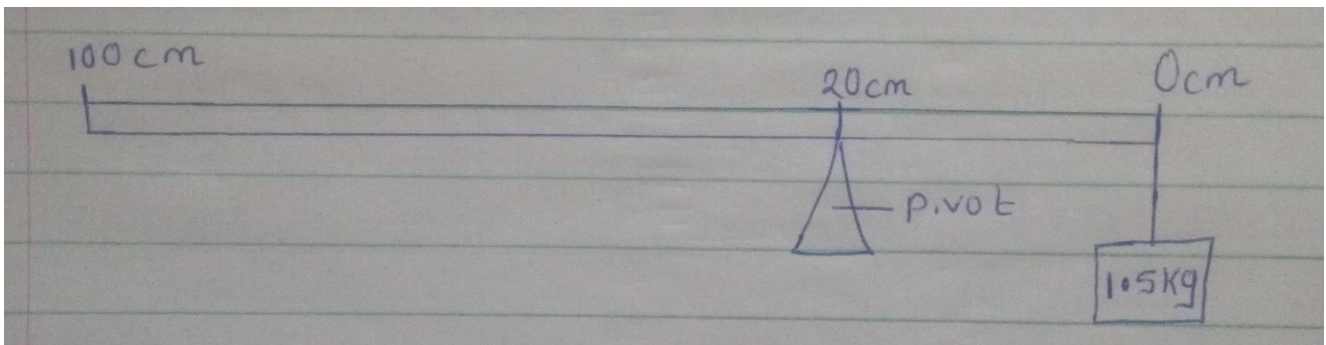
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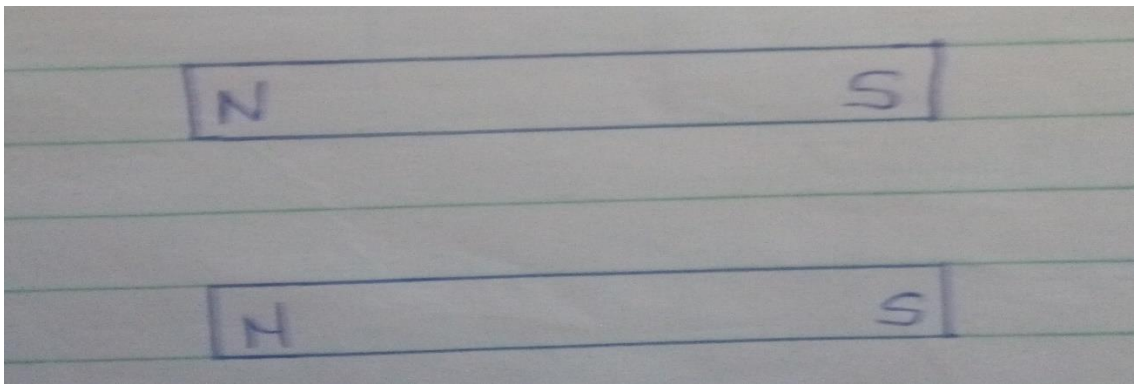
5. A uniform metal bar, 100 cm long balances at 20 cm mark when a mass of 1.5kg is attached at 0 cm mark.



Calculate the weight of the bar ($g = 10 \text{ N/kg}$)

(3mks)

6. Draw the magnetic field pattern of the two magnets below placed close together. (2 mks)



7. Define polarization

(1 mk)

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8. Give 2 uses of an electroscope.

(2 mks)

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9. At what angle would two mirrors be inclined to form 17 images.

(2 mks)

10. What does formation of shadows show about light?

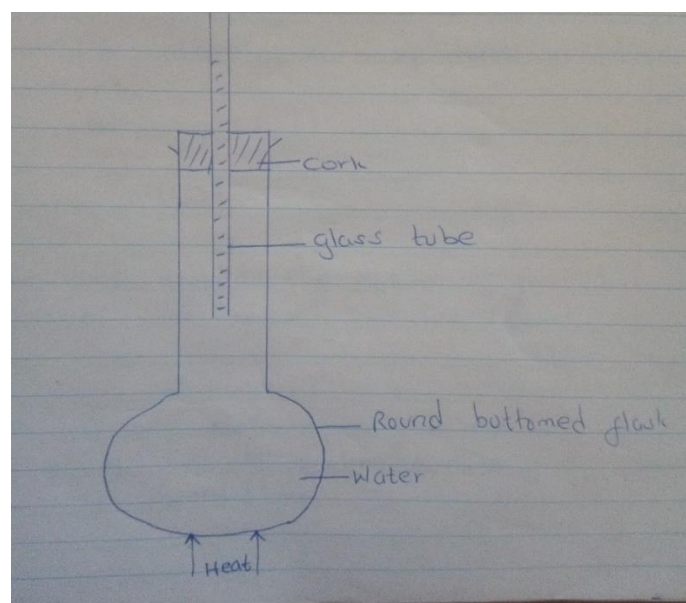
(1 mk)

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11. Explain why soft –board ceiling is better than concrete ceiling. (1 mk)

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12. The figure below shows water in a flask



As it is heated, it is observed that the level of water in the glass tube falls slightly first then later starts

Rising.Explain (2 mks)

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SECTION B

(55 MARKS)

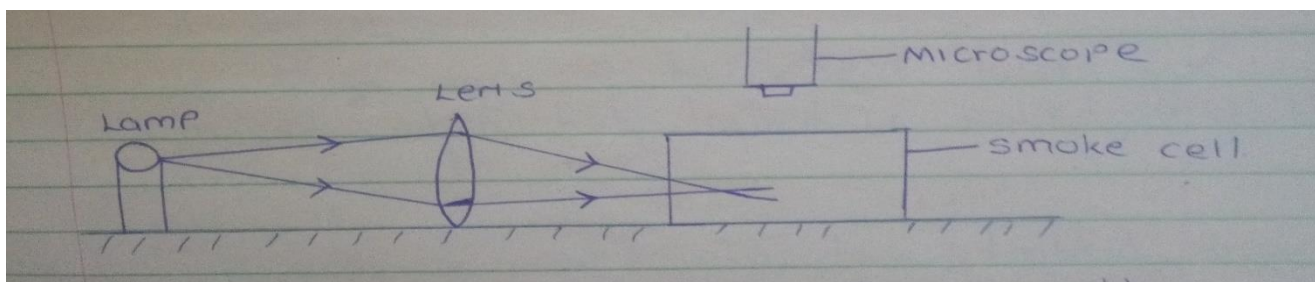
13. A) State the kinetic theory of matter

(1 mk)

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b) Brownian motion of smoke particles can be studied by using the apparatus shown in the figure below.

To observe the motion some smoke is closed in the smoke cell and then observed through the
Microscope.



Explain the role of each of these in the experiment.

i) Smoke particle

(1 mk)

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ii) Lens

(1 mk)

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iii) microscope

(1 mk)

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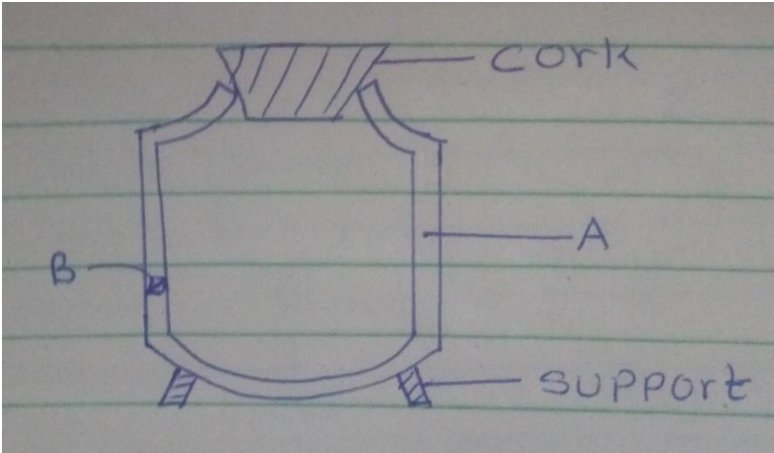
c) State and explain the nature of the observed motion of the smoke particles.

(2 mks)

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d) What will be observed on the motion of smoke particles if the temperature surrounding the smoke cell is raised. (1 mk)
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14. The figure below shows a cross section of a vacuum flask.



a) Name parts, labeled. (2 mks)

A.....

B.....

B) Boiling water is poured into two identical vacuum flasks A and B. Flasks A is partially filled while Flask B is completely filled. Both are closed tightly. State with reasons the flask in which water is likely to have a higher temperature eight hours later. (2 mks)

15. a) An uncharged metal rod brought close but not touching the cap of a charged electroscope causes a decrease in the divergence of the leaf. Explain. (2 mks)

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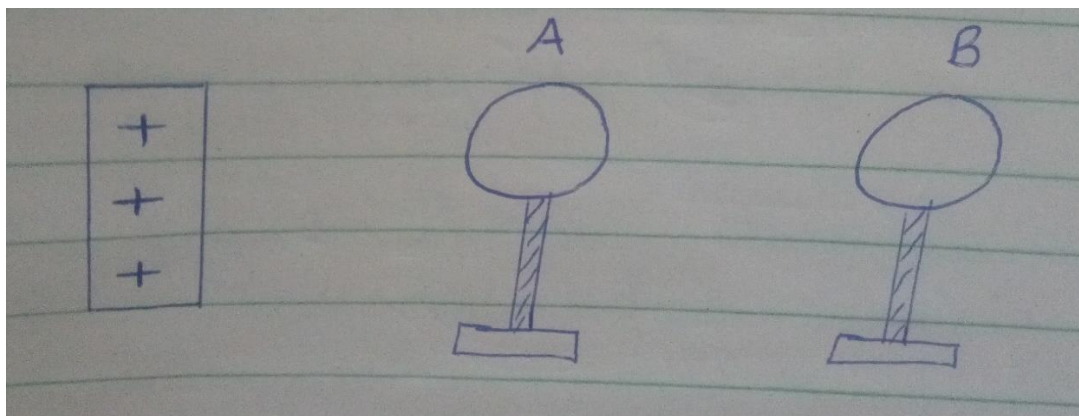
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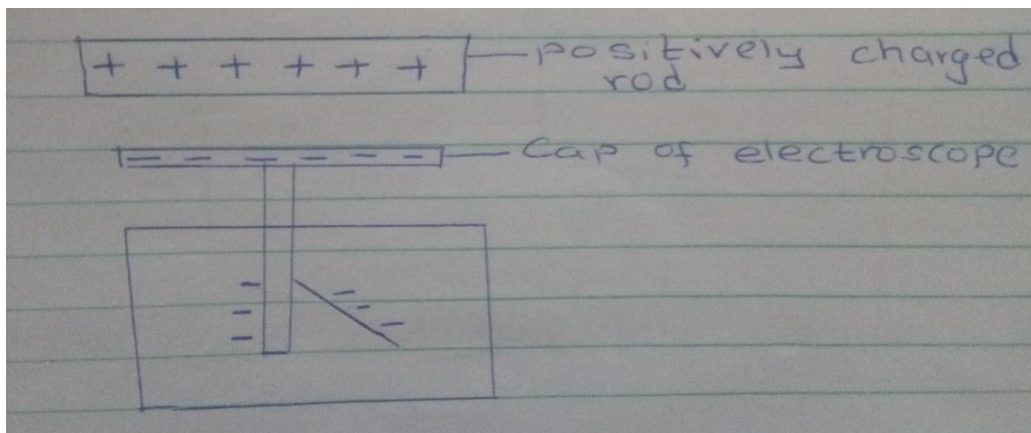
b) A positively charged rod is brought close to two spheres A and B, held by insulated handles as shown below.



Indicate the charge on sphere A and B.

(2 mks)

c) The figure below shows a highly positively charged rod being moved slowly downwards towards the cap of a negatively charged leaf electroscope. It is observed that the leaf initially falls then rises.



Explain this observation.

(2 mks)

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16. a) State the right – hand grip rule.

(1 mk)

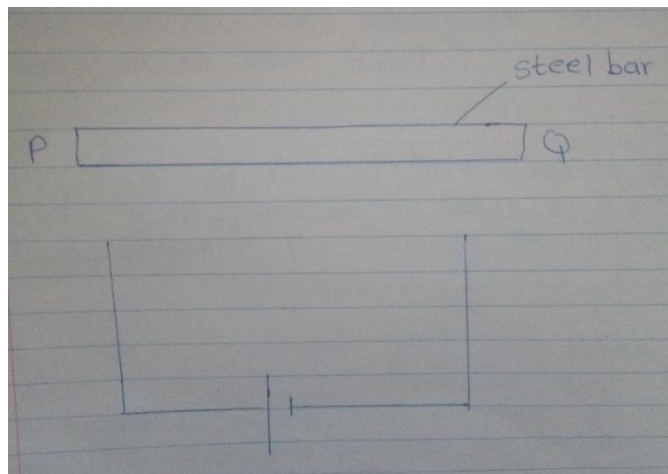
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b) State and explain the functions of the keeper in storing magnets.

(2 mks)

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c) The figure below shows a steel bar to be magnetized



Complete the circuit such that both poles P and Q acquire opposite polarity (North – South respectively)

(2 mks)



d) Name 2 methods of magnetization of a magnetic material. (2 mks)

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17. a) A micrometer screw gauge which had an error of +0.02mm was used to measure the diameter of a spherical marble. If the actual diameter was 3.67mm.

i) What was the reading indicated on the instrument. (2 mks)

ii) Draw the micrometer screw gauge showing that reading in (i) above. (2 mks)

b) Fifty drops of olive oil have a volume of 1.0cm^3 . If a drop of oil forms an oil patch of diameter 20 cm, determine the size of the molecule. (3 mks)

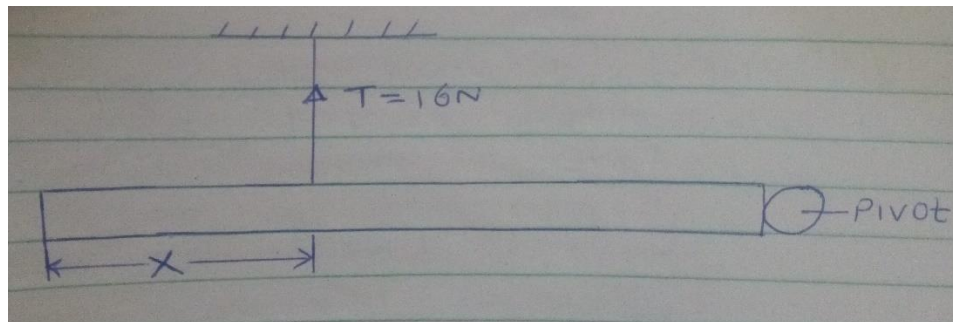
c) A burette was initially filled with a liquid of density 0.8g/cm^3 to 12ml. The liquid is allowed to run out for some time. If the volume of liquid removed from the burette has a mass of 14g. Determine the final reading on the burette. (3 mks)

18. a) State the principal of moments

(1 mk)

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b) The figure below shows a uniform metre rule pivoted and supported as shown. If the mass of the rule is 2.4kg, Find the distance X. (3 mks)



c) A solid weighs 18.5N on the surface of the moon.

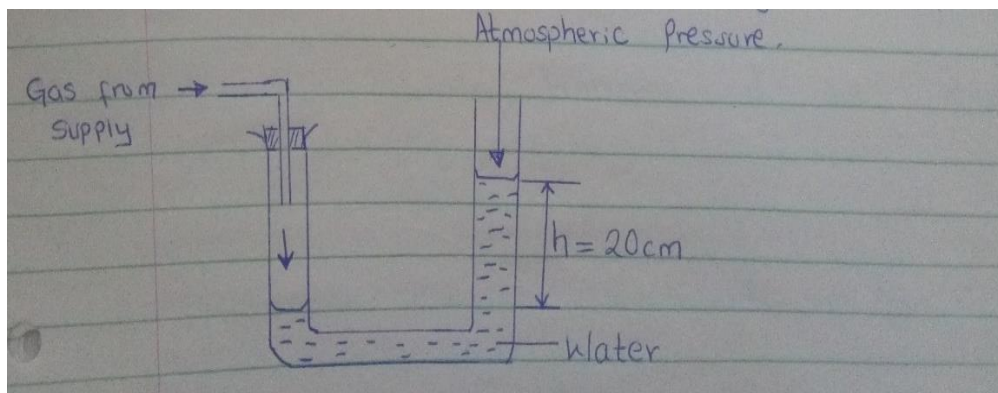
The force of gravity on the moon is 1.7N/kg. Determine the mass of the solid.

(3 mks)

19. Taking the density of water as 1000kg/m^3 and atmospheric pressure as $103,000\text{ N/m}^2$,

Determine the pressure of the gas used.

(3 mks)



b) State 2 factors that affect the pressure in liquids.

(2 mks)

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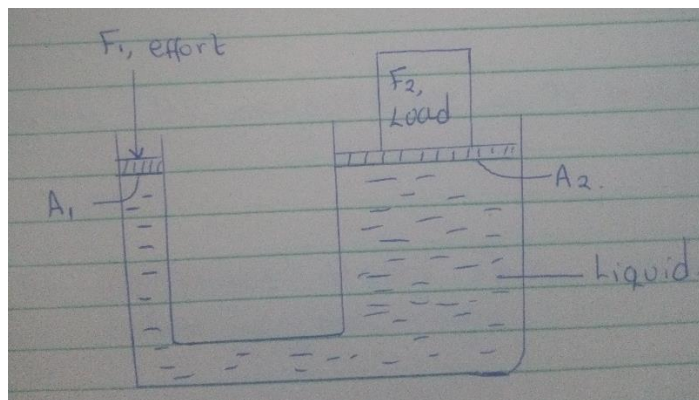
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c) The figure below show a hydraulic lift If $A_1 = 0.25\text{m}^2$, $A_2 = 10\text{m}^2$ and F_1 is 100N. Determine F_2 .

(3 mks)



20. a) Differentiate between luminous and non-luminous sources of light.

(1 mk)

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b) Differentiate between transparent and translucent objects.

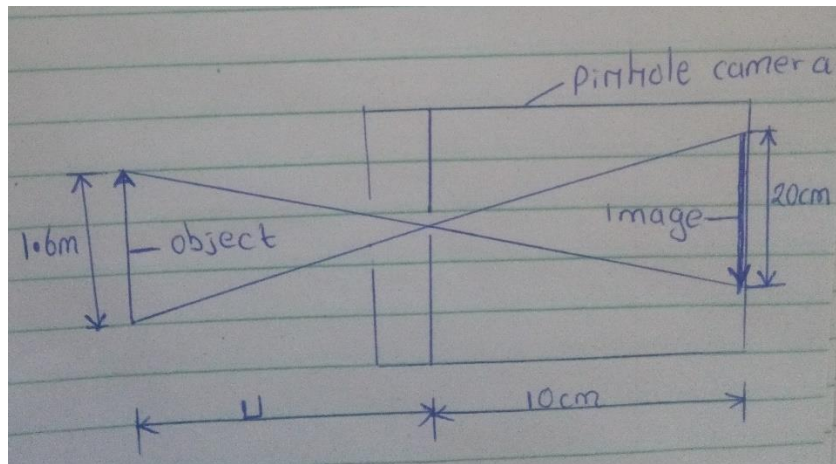
(1 mk)

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c) The figure below shows a pinhole camera.



i) At what minimum distance from pinhole must an object stand if a full length image is required.

(3 mks)

ii) Determine the magnification of the image.

(2 mks)

iii) From the magnification obtained above comment on the nature of the image.

(1 mk)

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