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



EXCELLING STUDENTS FORM TWO END TERM TWO SERIES TWO EXAMS

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ORDER OF THE 14 SUBJECTS TESTED *(ALPHABETICALLY ARRANGED)*

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

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EXCELLING STUDENTS FORM TWO
END TERM 2 SERIES TWO EXAMS

NAME: ……

SHOOOL: ……..

ADM NO: ……. SIGN……..…….…. DATE: ……..

Term 2

AGRICULTURE

(QUESTION PAPER)

FORM TWO

TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES

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

b. *Sign and write the date of examination in the space provided above*

c. *This paper consist of three sections A, B and C (100mks)*

d. *Answer all the questions in sections A and B*

e. *Answer any two questions from section C*

f. *All answers should be written in the spaces provided*

g. *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	QUESTIONS	MAXIMUM SCORE	CANDIDATES SCORE
A	1-29	30	
B	30-35	30	
C	36	20	
	37	20	
	38	20	
TOTAL SCORE		**100**	

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SECTION A: (30 MARKS)

ANSWER ALL QUESTIONS IN THE SPACE PROVIDED

1. Name **two** activities carried out in agriculture as an art **(1mk)**

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2. Differentiate between pastoralism and aquaculture **(1mk)**

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3. Name **two** physical agents of weathering **(1mk)**

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4. State **two** characteristics of a fertile soil **(1mk)**

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5. State **two** care and maintenance practices carried out on planes **(1mk)**

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6. State **two** reasons for keeping correct and accurate farm records **(1mk)**

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7. **Name** the breeds of the livestock animals with the following characteristics

   i) Cattle with fluffy umbilical fold, large, dewlap produce 3000kgs of milk per lactation nd tolerate high temperatures……

   ii) Black pit, baconer, bear white colour on feet, nose and tail…….

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iii) White rabbit, ears, nose, paws and tail are black and very prolific……

iv) Sheep that is white, bear, blackhead, is polled with long legs and fat tail ……

8. State **two** importance of soil pH in crop production **(1mk)**

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9. State **two** functions of water in the body of livestock animals **(1mk)**

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10. List **two** factors that affect the digestibility of feeds **(1mk)**

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11. Differentiate between essential and non-essential amino acids **(1mk)**

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12. State **two** characteristics of an effective acaricide **(1mk)**

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13. State **two** disadvantages of multiple stem pruning **(1mk)**

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14. Give **two** advantages of row planting **(1mk)**

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15.<u>Differentiate</u> between intercropping and mixed cropping **(1mk)**

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16. State **<u>two</u>** factors that do not favour shifting cultivation **(1mk)**

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17. State **<u>two</u>** importance of organic farming **(1mk)**

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18. State **<u>two</u>** ways of increasing the amount of light obtained by plants during crop production **(1mk)**

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19. State **<u>two</u>** situations when burning is chosen as a method of bush clearing **(1mk)**

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20. State **<u>two</u>** disadvantages of minimum tillage **(1mk)**

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21. State **<u>two</u>** factors that increase the depth of planting in crop production **(1mk)**

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22. State **two** reasons of drainage in the soil **(1mk)**

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23. State **two** disadvantages of using inorganic fertilizers **(1mk)**

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24. State **two** factors considered when selecting a site for a nursery bed **(1mk)**

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25. State **two** disadvantages of mulching **(1mk)**

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26. Give **two** limitations of using plastic pipes to convey water in the farm **(1mk)**

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27. Give **two** reasons for treating water before use **(1mk)**

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28. Give **two** instances when opportunity cost does not exist **(1mk)**

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29. Study the following elements

Calcium, Magnesium, Sulphur, Nitrogen, Potassium, Phosphorous

Classify them into:

i) Liming elements **(½mk)**

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ii) Major nutrients **(½mk)**

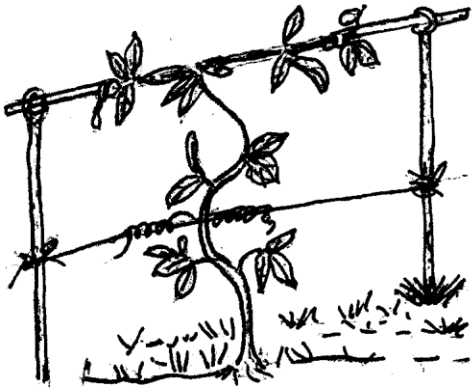
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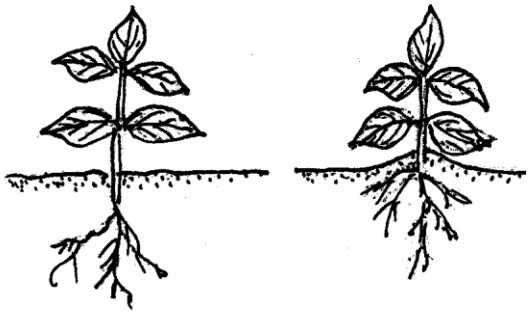
SECTION B (30 MARKS):

Answer all the questions in the spaces provided

30. Study the diagrams below carefully and answer the questions that follow



A



Before **B** after

i) **Name** the practice illustrated in A and B **(1mk)**

A ……

B ……

ii) State **two** other importance of practice B in Irish potatoes other than providing support **(2mks)**

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iii) **Name** practices similar to that in A done in

i. Banana

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ii. Tomatoes

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iv) **Define** the term used to collectively refer to all the practices named in (a) and (c) **(1mk)**

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31.a) Prepare 200kg sow and weaner meal 30% DCP using maize germ 10% DCP and fish meal 35% DCP. Show all your working (DCP-digestible crude protein) **(3mks)**

b) A suckling sow weighs 100 kilogram (kg) body weight and she has 10 piglets. For every kilogram of body weight the sow receives 25 grams of feed and for every piglet the sow receive 500 grammes of the feed, calculate the quantity of ration given in equal portions in the morning and the afternoon per day. **(2mks)**

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32. The photograph below illustrates a method of irrigation



a) Identify the method of irrigation illustrated above. **(1mk)**

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b)State two maintenance practices that are carried out on the equipment used in the method illustrated above. **(2mks)**

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c)Give one advantage drip irrigation has over the method of irrigation illustrated in crop disease control **(1mk)**

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33. The diagram below illustrates a final seedbed after a tertiary operation done during land operation done during land preparation. Study it carefully and answer the questions that follow.



a) Name the tertiary operation carried out on the seedbed **(½mk)**

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b) Describe how the tertiary operation named above is carried out **(1½mk)**

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c) Give two advantages of planting crops on the final seedbed illustrated above **(2mks)**

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34.Describe the procedure of transplanting tomatoes **(5mks)**

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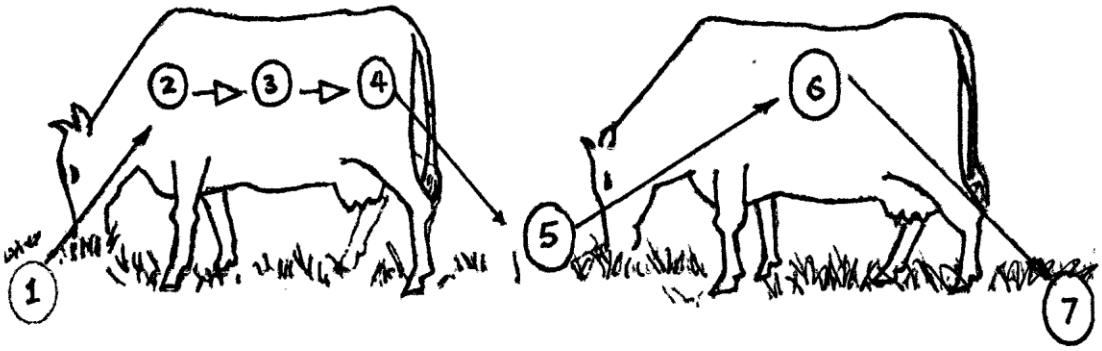
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35. Study the diagrams below and answer the questions that follow



a)Differentiate between ecto-parasite and endo-parasite **(1½mk)**

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b) Describe the development of ticks at 1, 2, 3, 4, 5, 6 and 7 **(3½mk)**

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c) Classify the tick on the basis of the life cycle **(½mk)**

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SECTION C (40 MARKS).

Answer any two questions in the space provided

36.a) State and explain **three** importance of high level of education and technology in Agriculture **(6mks)**

b) State and explain **three** importance of using drainage in land reclamation **(6mks)**

c) Give **three** reasons why land should be prepared early before the onsent of rains **(3mks)**

d) Explain **five** factors that affect the spacing of crops **(5mks)**

37. a) Differentiate between quarantine and isolation as used in livestock disease Control **(2mks)**

b) State **three** importance of keeping livestock healthy **(3mks)**

c) State and explain **five** predisposing factors to livestock diseases **(5mks)**

d) State eight signs of ill health in livestock **(8mks)**

e) Give **four** reasons for maintaining workshop tools and equipment **(2mks)**

38.a) Outline the procedure followed when hand-spraying cattle to ensure effective use of acaricide to control ticks **(6mks)**

b) Differentiate between roughage and a concentrate feed in livestock production **(2mks)**

c) State five microbial activities that takes place in a rumen **(2mks)**

d) Describe digestion in the four stomach compartments of the ruminant animal

i) Rumen (A pouch) **(4mks)**

ii) Reticulum (Honey comb) **(2mks)**

iii) Omasum (Many plies or book) **(3mks)**

iv) Abomasum (True stomach) **(1mk)**

THIS IS THE LAST PRINTED PAGE!

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EXCELLING STUDENTS FORM TWO
END TERM 2 SERIES TWO EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

Term 2 -

BIOLOGY

(QUESTION PAPER)

FORM TWO

TIME: 2HRS

INSTRUCTIONS

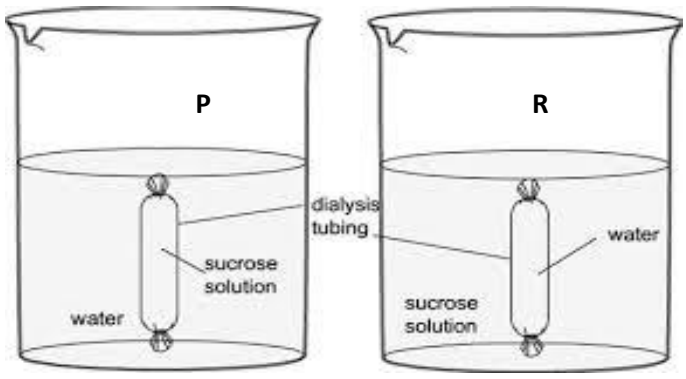
1. This paper has **TWO** sections: **A** and **B**
2. **All** Questions in Section **A** are **Compulsory**
3. Question **6** is Compulsory
4. Choose Either Question 7 **or** 8
5. Write your Answers in the Spaces Provided
6. Wrong Spelling of Technical Terms shall be **Penalized**

Section	Question	Max Score	Student's Score
	1	8	
	2	8	
	3	8	
	4	8	
	5	8	
	6	20	
	7 or 8	20	
TOTAL SCORE		80	

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SECTION A (40 MARKS)

1. The diagram shown below represent experiments used to investigate a physiological process. Observations were made after 20minutes



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

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b) In which beaker was there the following changes in the size of the visking tubing?

i) Reduction …… **(1mk)**

ii) Increase …….. **(1mk)**

c) Account for the observation expected in beaker labelled **R** **(2mks)**

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d) Which other artificial membrane could have been used instead of the visking tubing to get same results?

..... **(1mk)**

e) State **TWO** significance of the physiological process investigated to human beings **(2mks)**

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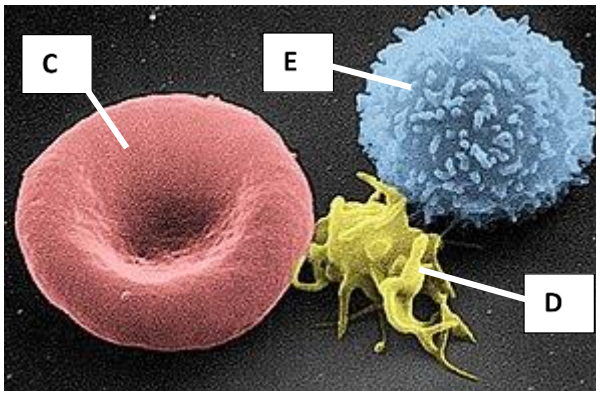
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2. The following is an illustration of the three blood cells in mammalian blood



a) Identify the cell labelled: **(2mks)**

i) **E** ……..

ii) **D** …….

b) State **TWO** ways by which the cell labelled **E** undertakes its functions **(2mks)**

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c) Name the enzymes released by cells **C** and **D** which are important in their functions

i) C……...…… **(1mk)**

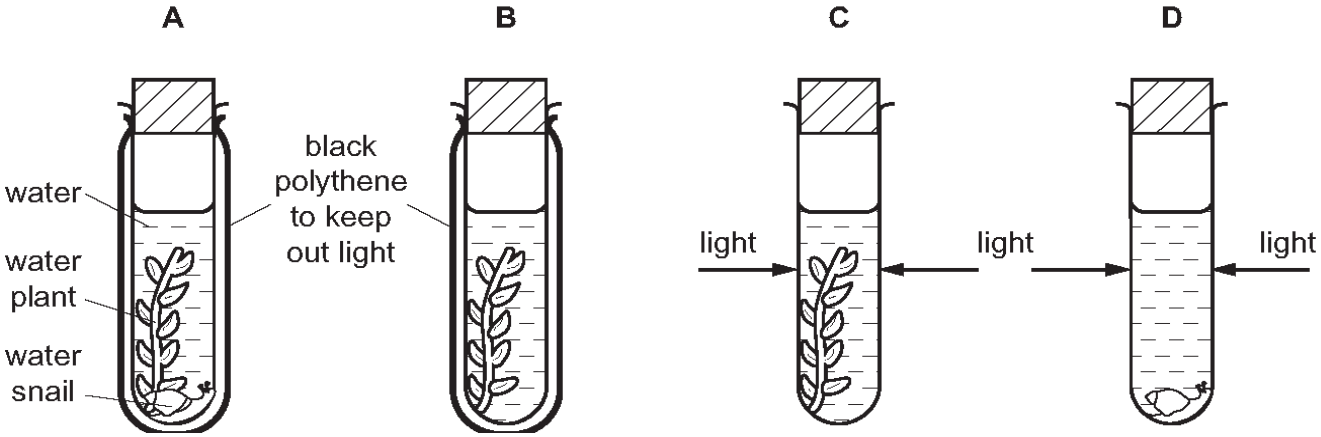
ii) D…….. **(1mk)**

d) Explain how absence of the following features adapt cell **C** to its functions: **(2mks)**

i) Nucleus: …….

ii) Mitochondria ……

3. The experimental set ups shown below were all placed in light and used to study a biological process



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a) i) In which set up will there be a decrease in concentration of Carbon (IV) oxide? **(1mk)**

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ii) Give a reason for your answer in ai) above **(1mk)**

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b) Why was a water plant used in this experiment and not one found growing on dry land? **(1mk)**

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c) Give reasons why the water snail in set up **A** will die after a few days **(2mks)**

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d) Name **TWO** structures used by plants for gaseous exchange **(2mks)**

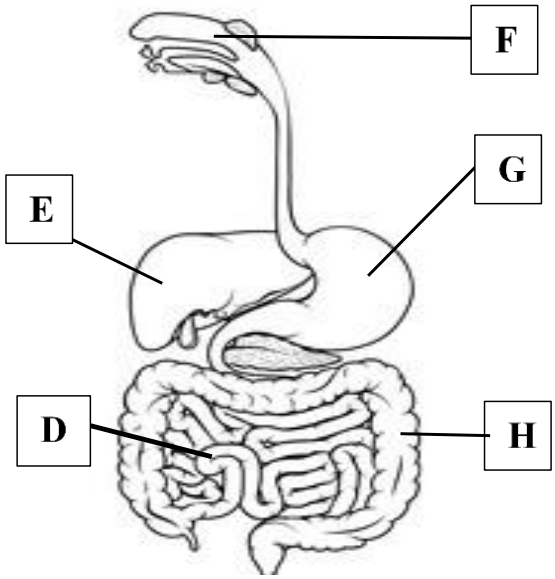
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4. The mammalian digestive system is shown below. Use it to answer the questions that follow



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a) Give **TWO** ways the digestive juice released in region **F** is suited to its functions **(2mks)**

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b) State **TWO** ways in which auto-digestion is prevented in organ labelled **G** **(2mks)**

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c) Explain how part **E** is important in the process of digestion **(2mks)**

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d) Name **TWO** substances that are absorbed in the region labelled **H** **(2mks)**

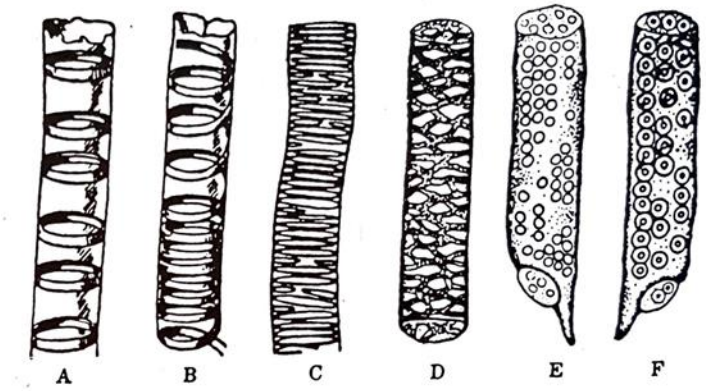
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5. The following diagrams represents a common tissue found in higher plants



a) i) Give **TWO** functions of the tissue represented above **(2mks)**

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ii) What are the adaptations of this tissue to its functions **(2mks)**

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b) The tissue represented above are of two types, state the name given to the following **(2mks)**

Diagram	Name of Tissue
A, B, C and D	
E and F	

c) i) Name the chemical that is responsible to the patterns seen in tissue **A, B, C** and **D** **(1mk)**

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ii) What is the significance of these patterns to the function of the tissue shown? **(1mk)**

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SECTION B (40 MARKS)

Qn 6 is Compulsory. Choose to do either Qn. 7 or Qn. 8

6. The table below shows results of an experiment carried out in a controlled environment to measure the rate of photosynthesis under different concentration of Carbon (IV) Oxide.

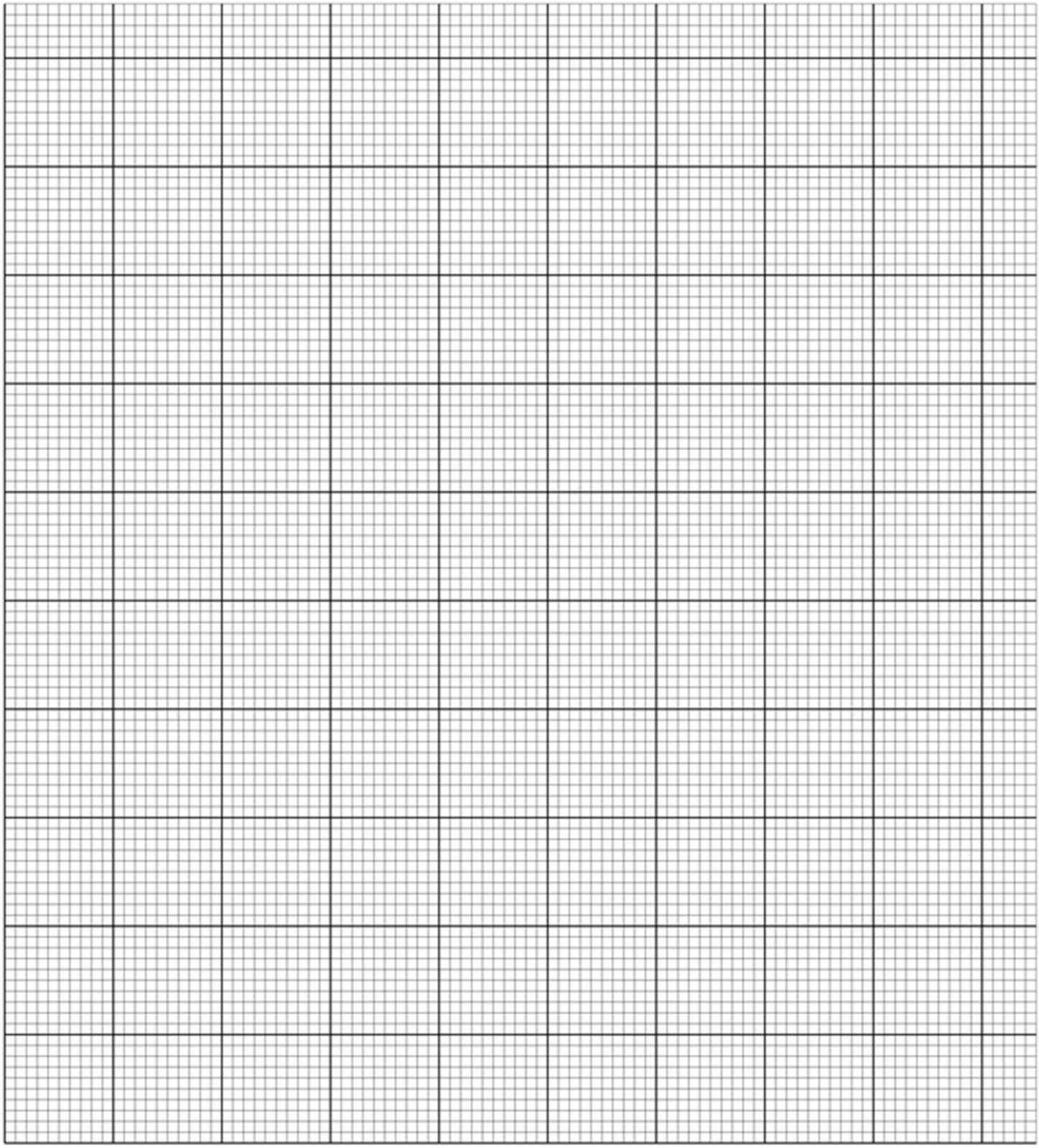
7.

Concentration of Carbon (IV) Oxide (%)	0	0.02	0.03	0.05	0.07	0.10	0.13	0.15	0.17	0.19	0.20
Rate of Photosynthesis (Arbitrary Units)	0	17.5	25	32.5	38	42.5	44	45	45	45	45

a) Using a suitable scale, plot a graph of the rate of photosynthesis against concentration of Carbon (IV) Oxide

(6mks)

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b) From the graph, what is the optimum concentration of Carbon (IV) Oxide? **(1mk)**

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c) Account for the rate of photosynthesis at the following concentration of Carbon (IV) Oxide:

i) 0.02% to 0.05% **(2mks)**

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ii) 0.15% to 0.20% **(2mks)**

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d) Determine the rate of photosynthesis at the following concentration of Carbon (IV) Oxide: **(2mks)**

i) 0.04% …….

ii) 0.08% ……

e) State **THREE** ways in which the rate of photosynthesis can be increased to beyond 46 arbitrary units in the experiment **(3mks)**

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f) i) Why was it necessary to carry out the experiment in a controlled environment? **(1mk)**

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ii) Write a word equation for the photosynthesis process **(1mk)**

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g) Give **TWO** reasons why photosynthesis needs light **(2mks)**

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8. a) Describe the adaptations of the ileum to its absorption function **(12mks)**

b) Describe the mechanism of inhalation in mammals **(8mks)**

9. a) Give the differences between aerobic and anaerobic respiration **(6mks)**

b) Describe how changes in various factors affect rate of enzymatic reactions **(14mks)**

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EXCELLING STUDENTS FORM TWO
END TERM 2 SERIES TWO EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

Term 2
BUSINESS STUDIES
FORM TWO (2)
Time: 2 Hours

ANSWER ALL QUESTIONS IN THIS PAPER

1. Outline **four** ways the economic environment influence business activities. **(4mks)**

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2. List **four** personal attributes of an office staff. **(4mks)**

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3. Highlight **four** limitations of the methods used by the consumer to protect themselves against exploitation. **(4mks)**

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4. Outline **four** benefits of bonded warehouses to the government. **(4mks)**

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5. Give the name of the insurance policy described in the following table**.** **(4mks)**

DESCRIPTION	NAME OF THE POLICY
Covers ships while on a specified voyage and time	
Covers a specified peril when the ship is either being loaded, offloaded or serviced	
Covers cargo against loss or damage while being transported by ship	
One policy used to cover a number of ships belonging to one organization	

6. Currently the government is selling state owned businesses to private investors. Highlight **four** benefits of such decisions. **(4mks)**

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7. State **four** essentials of effective communication. **(4mks)**

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8. Identify the level of production described by each of the following information **(4mks)**

DESCRIPTION	LEVEL OF OCCUPATION
A boy chasing hare for meat	
CIC insurance company selling their policies	
Carpenter making chairs for form ones	
Mr. Juma counseling form four students	

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9. Farmers in VOI transport their herds of cattle to Kenya meat commission (KMC) in Nairobi by train. Highlight FOUR advantages of railway over road transport. **(4mks)**

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10. State **FOUR** reasons why choice should be made in satisfying human wants. **(4mks)**

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11. Highlight four importance's of business studies to a society. **(4mks)**

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12. Highlight four circumstances under which sign language can be used to communicate. **(4mks)**

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13. Highlight four reasons why the government is involved in trading activities. **(4mks)**

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14. State four benefits of using computers in an office**.** **(4mks)**

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15. Highlight four contributions of entrepreneurs to the growth of the economy. **(4mks)**

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16. State and explain five circumstances under which a producer may prefer to directly sell their goods to the consumers. **(10mks)**

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17. Explain five differences between life assurance and general insurance. **(10mks)**

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18. Explain five factors that a firm may consider when choosing a means of transports. (10 marks)

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19. Explain five sources of finance for public limited company**.** **(10mks)**

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EXCELLING STUDENTS FORM TWO
END TERM 2 SERIES TWO EXAMS

NAME: ……..

SHOOOL: …….

ADM NO: ……. SIGN……..… DATE: ……..

Term 2
FORM 2
CHEMISTRY (233)
Time: 2 Hours

Kenya Certificate of Secondary Education

INSTRUCTIONS TO THE CANDIDATES:-

- Write your **name** and admission **number** on the spaces provided.
- Answer ***all*** the questions in the spaces provided.
- Mathematical tables and electronic used calculators may be
- All working **MUST** be clearly shown where necessary.

Question	Maximum score	Candidate's score
1-20	80	

1. The table below shows the atomic numbers of some elements represented by letter J to Q (letters not their actual symbols). Study and answer the questions that follow.

Element	**J**	**K**	**L**	**M**	**N**	**P**	**Q**
Atomic Number	**11**	**17**	**15**	**14**	**12**	**20**	**19**

a) Write the electronic configuration of

(i) M (**1mk**)

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(ii) P^{2+} (**1mk**)

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b) Write the formula of the compound formed when L combines with N (**1mk**)

……

……

c) How would reactivities of element N and P with chlorine compare? Explain. (**2mks**)

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d) Element N combines with oxygen to form an oxide. Using dots (•) and crosses(x) to represent the outermost electrons, show how the two elements combine. (**2mks**)

e) Select the most reactive metal and non-metal and give reason for your answer. (**2mks**)

Metal _____

Reasons _____

Non metal _____

Reason _____

f) State one physical and one chemical property that elements J and Q have in common (**2mks**)

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g) What name is given to the group of elements to which element M belongs? (**1mk**)

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h) (i) Element K consists of two isotopes with relative abundances 75% and 25% and mass number 35 and 37 respectively find the relative atomic mass of K. (**2mks**)

(ii) Why is the relative atomic mass of K not a whole number? (**1mk**)

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2. a) (i) Describe how Lead(II) nitrate is prepared in the Laboratory starting from Lead (II) Oxide. (**3mks**)

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(ii) Write an equation for the reaction that takes place. (**1mk**)

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b) When Lead (II) nitrate crystals is heated strongly the crystals crackle and split because of the gas accumulating inside

(i) State three other observations that are made (**3mks**)

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(ii) Write an equation for the reaction that takes place when Lead (II) nitrate is strongly heated. (**1mk**)

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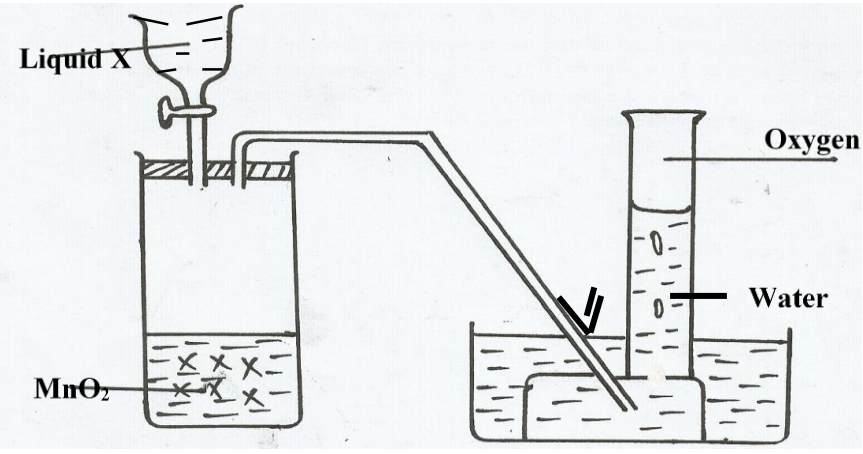
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d) Lead (II) ions react with iodide ions according to the equation, white an equation for this reaction (**1mk**)

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3. The diagram below shows oxygen can be prepared in a laboratory. Study it and answer the questions that follow.



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a) Name the liquid **X** **(1mk)**

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b) Write a balanced chemical equation to show how oxygen is produced in the boiling tube. **(1mk)**

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c) Give one industrial use of oxygen **(1mk)**

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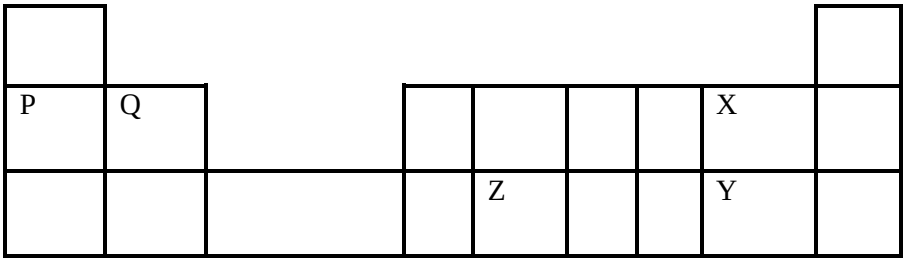
4. Metal **X**reacts with cold water slowly while Y does react with neither cold water nor hot water. Metal **Z** reacts with both cold water and hot water vigorously and explosively respectively. Arrange these metals in order of increasing reactivity **(2mk)**

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5. The grid below shows part of the periodic table. The letters do not represent the actual symbols of elements.



(a) Compare

(i) Atomic Radii of**P** and **Q** (**1mk)**

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……

(ii) Reactivity of **X** and **Y** **(1mk)**

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……

(b) Write the chemical formula of a compound formed by **Q** after reacting with **X**. (**1mark**)

……

……

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6. Using dots**(.)** and crosses **(x)** show the bonding

(i) NH_4^+ (**1mk**)

(ii) H_2O (**1mk**)

7. Name the following processes;

a) When anhydrous calcium chloride is left in an open beaker overnight a solution is formed. **(1mk)**

……

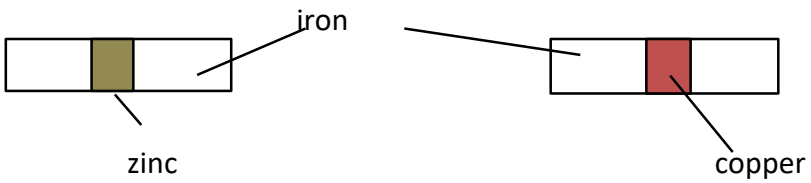
……

b) When sodium carbonate decahydrate crystals are left in an open beaker for some days it turns into a powder. **(1mk)**

……

……

8. In an experiment, two pieces of iron sheets were wrapped in each case with zinc and copper metal sheets as shown below. They were left in the open for some months.



(I) (II)

State and explain the observations made in the experiments; **(3mk)**

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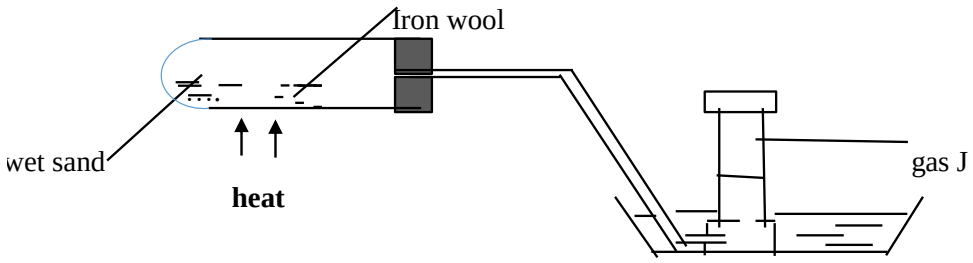
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9. Study the diagram below and answer the questions that follow.



a) Name gas J **(1mk)**

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……

b) Explain why its important to heat the wet sand before heating the iron wool. **(1mk)**

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……

c) Name the product formed in the combustion tube. **(1mk)**

……

……

10. Solutions can be classified as acids, bases or neutral. The table below shows solutions and their pH values

Solution	pH– values
K	1.5
L	7.0
M	14.0

(a) Select any pair that would react to form a solution of pH 7 **(1Mk)**

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(b) Identify two solutions that would react with aluminium hydroxide. Explain (**2Mks)**

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11. Oxygen gas can be prepared in the laboratory by heating potassium nitrate.

(a) Write the equation of reaction to show the decomposition of potassium nitrate **(1Mk)**

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(b) State two physical properties of oxygen gas **(1Mk)**

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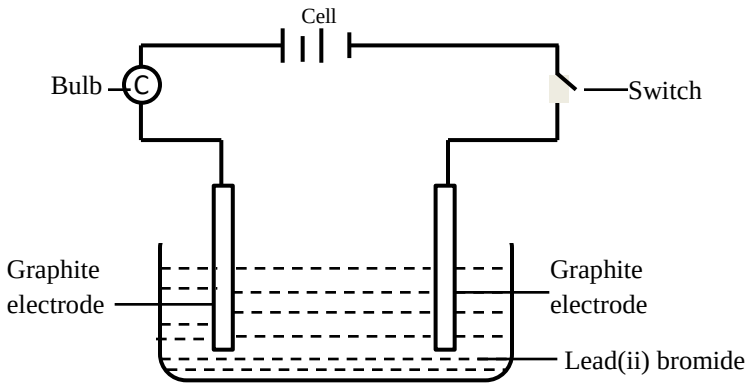
(c) Outline one industrial use of oxygen gas **(1Mk)**

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12. Study the set-up below for electrolysis of molten lead(ii) bromide using graphite electrodes.



(a) Write ionic equations for reactions that took place at

I Anode **(1Mk)**

……

……

II. Cathode **(1Mk)**

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(b) State the observation made at each electrode

I. Anode **(1Mk)**

……

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……

II. Cathode **(1Mk)**

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(c) State and explain the observations made on the electrolyte **(1Mk)**

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13. (a) State the role of the following parts during fractional distillation of a mixture of water and ethanol

(i) Glass beads in the fractionating column **(1Mk)**

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(ii) Fractionating column **(1Mk)**

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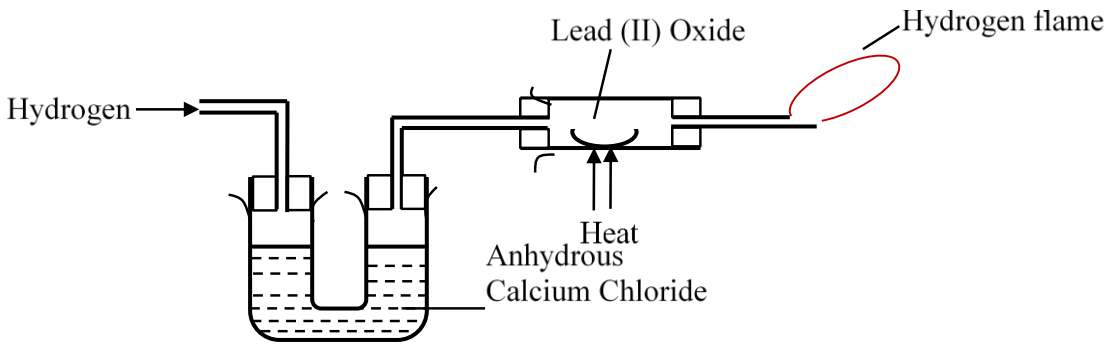
(b) State any one application of fractional distillation **(1Mk)**

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14.



(i) Write an equation for the reaction that takes place in the tube **(1Mk)**

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(ii) What property of hydrogen makes this reaction possible? **(1Mk)**

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(iii) What would you expect to happen, if sodium oxide (Na_2O) was used instead of Lead (II) oxide? **(1Mk)**

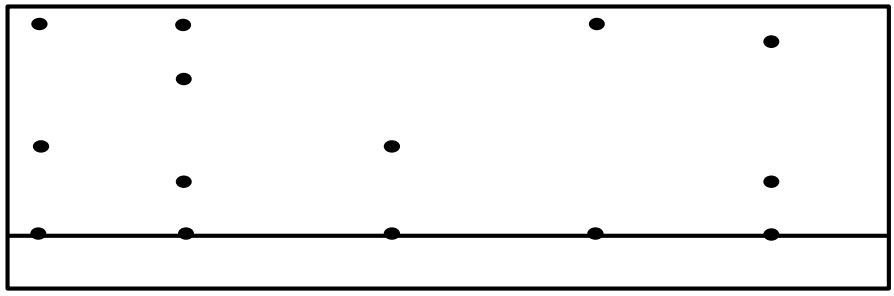
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15. The chromatogram of two inks and three dyes is drawn below.



Ink A	INK B	RED DYE	BLUE DYE	YELLOW DYE

(a) Name the colours of ink A **(1Mk)**

……

……

(b) Suggest how separated components can be recovered **(1Mk)**

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(c) Suggest two reasons why separations occur in this method **(1Mk)**

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16. (a) Why is reaction between calcium and dilute sulphuric (VI) acid not used in preparation of hydrogen gas **(2Mks)**

……

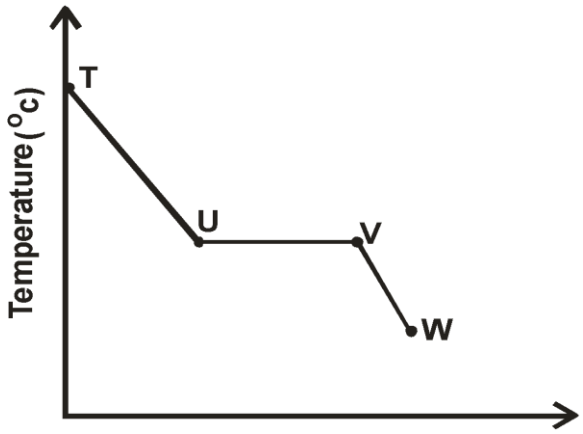
……

(b) Calcium is an element in period 2, what do members of the period have in common? **(1Mk)**

……

……

17. The sketch below shows a graph of temperature against time obtained when a gaseous substance was cooled.



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Explain what happens to the gaseous substance between:

a) T and U **(1mk)**

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U and V **(1mk)**

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V and W **(1mk)**

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18. Diamond and graphite are both allotropes of carbon. Explain why graphite is a good conductor of electricity while diamond is not. **(2mks)**

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19. a) Give name of process that take place when lead(II)nitrate is heated **(1mk)**

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(b) Aluminium carbonate does not exist. Give a reason **(1mk)**

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(c) Ammonium carbonate decomposes when heated. Write a chemical equation to represent this decomposition **(1mk)**

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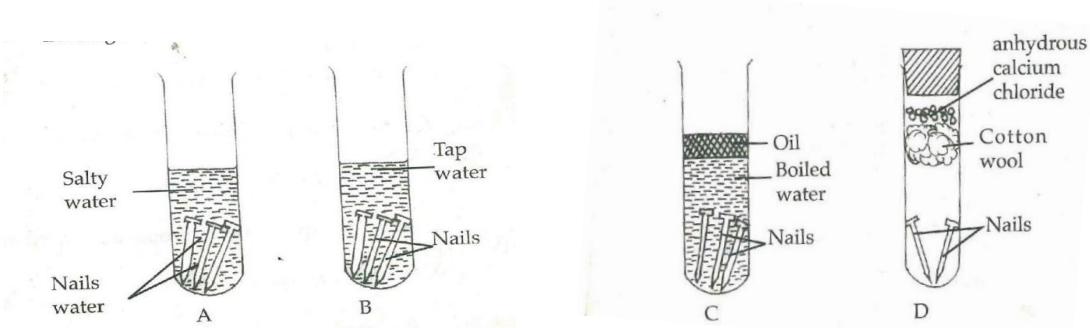
20. a) Give the chemical name of rust **(1mk)**

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……

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b) A form one student set up the following experiments to investigate the conditions necessary for rusting.



(i) State the observations made each of the test tubes after four days. (**3mks**)

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(ii) Why was the water in test tube C

a) Boiled (**1mk**)

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b) Covered with oil **(1mk)**

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(iii) State the purpose of anhydrous calcium chloride in test tube D (**1mk**)

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(iv) From the above experiment, give the conditions necessary for rusting (**2mks**)

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(v) Name a substance that accelerates rusting. (**1mk**)

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(vi) State 2 methods used to prevent rusting. **(2mks**)

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(vii) Explain why cars in Mombasa rust faster than in Nairobi. (**1mk**)

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EXCELLING STUDENTS FORM TWO
END TERM 2 SERIES TWO EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

Term 2

COMPUTER STUDIES

(QUESTION PAPER)

FORM TWO

TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES:

- Answer ALL questions.

QUESTIONS	MAX SCORE	Score
1-30	100	

1. Explain why it is important to carry out the following disk management tools in the computer.

a. Formatting. **(2mks)**

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b. Scanning. **(2mks)**

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c. Defragmentation. **(2mks)**

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d. Partitioning. **(2mks)**

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2. State **three** ways of protecting the computer laboratory against unauthorized access. **(3mks)**

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3. Give **three** reasons why it is important to follow the correct procedure when shutting down the computers. **(3mks)**

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4. What are special PC operational Keys? **(1mk)**

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5. Study the root directory below and answers the questions that follows.

C:\\Hum\Geo\F1\Endyear.Doc

a. Identify the name of drive in which the file is saved. **(1mk)**

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b. Identify the directory. **(1mk)**

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c. State the number of sub-folders in the directory. **(1mk)**

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d. Name the application program that would be used to open the file. **(1mk)**

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e. What would happen when one try to delete F1 when the Endyear document is opened? **(1mk)**

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f. Give **three** features of Endyear.Doc. **(3mks)**

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6. Differentiate between electronic spread and manual spreadsheet. **(4mks)**

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7. State **four** advantages of electronic spreadsheet. **(4mks)**

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8. Explain why it is important to look at the print preview of a document before printing. **(2mks)**

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9. Describe the following parts spreadsheet window. **(3mks)**

a. Formula bar

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b. Worksheet

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c. Cell pointer

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10. The formula =$F15*G9 is typed in cell M20, and copied to cell R26, what will be the formula displayed. **(3mks)**

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11. Explain the following functions as used in spreadsheet. **(4mks)**

a. SumIf

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b. Count

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c. Min

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d. Rank

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12. Define the following parts of a chart. **(4mks)**

a. Chart area

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b. Axes

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c. Legend

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d. Chart title.

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13. Define mail merging as used in Ms. Word. **(2mks)**

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14. List **four** page formatting features. **(4mks)**

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15. Explain the importance of the following formatting features on a document. **(4mks)**

a. Columns

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b. Section break

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c. Bullets and numbering

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d. Drop cap

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16. Differentiate between: **(6mks)**

a. Line spacing and character spacing

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b. Ignore and change all

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c. Toggle case and sentence case.

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17. State **three** factors that determine the cost of a computer. **(3mks)**

18. Define authenticity as used in software consideration. **(2mks)**

19. Differentiate between system software and application software. **(4mks)**

20. State **three** advantages of using USB cables. **(3mks)**

21. Give **four** factors to consider when selecting a printer. **(4mks)**

22. List **four** differences between impact printer and non-impact printer. **(4mks)**

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23. Differentiate between pixel and resolution. **(2mks)**

24. Give **three** characteristics of LCD monitor. **(3mks)**

25. What is a buffer memory? **(1mk)**

26. List **three** factors to consider when selecting an input device. **(3mks)**

27. Define computer. **(1mk)**

28. Define the term peripheral device. **(1mk)**

29. What is a cursor? **(1mk)**

30. Give **three** characteristics of fourth generation computers. **(3mks)**

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EXCELLING STUDENTS FORM TWO
END TERM 2 SERIES TWO EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

Term 2
CHRISTIAN RELIGIOUS EDUCATION
FORM TWO (2)
Time: 2½ Hours

Instruction: Answer ALL the question in the spaces provided

1(a) Give reasons why the Bible is referred to as the "Word of God" **(6mks)**

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(b) State **EIGHT** consequences of sin according to Genesis chapter 3 – 11. **(8mks)**

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2.a) Describe the background to the call of Abraham (Gen 11:27-32) **(7mks)**

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b) Outline ways in which David promoted the worship of Yahweh in Israel **(7mks)**

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c) Outline **SIX** signs by Prophet Elijah which prove that Yahweh was the true God. **(6mks)**

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3.a) Give the characteristics of the suffering servant of Yahweh according to prophet Isaiah (Isaiah 53). **(6mks)**

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b) Outline the message of Zachariah in the Benedictus Lk 1:67-80. **(6mks)**

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c) State **SIX** teachings of Jesus about John the Baptist. **(6mks)**

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d) In what ways does the church win people to the kingdom of God? **(6mks)**

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4.a) Mention ways in which John the Baptist prepared the way for the Messiah. **(6mks)**

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b) State reasons why Jesus was rejected in Nazareth. **(4mks)**

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c) In what ways are church leaders put to test today? (**6mks)**

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5a) Describe the raising of the widow's son at Nain. Luke 7:11-17 **(8mks)**

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b) State **SIX** virtues Christians can learn from raising of the widow's son at Nain. **(6mks)**.

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6 a) Explain **SIX** roles performed by Ancestors in Traditional African communities. **(6mks)**

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b) What changes have taken place in land ownership in Kenya today? **(6mks)**

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EXCELLING STUDENTS FORM TWO
END TERM 2 SERIES TWO EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

Term 2
ENGLISH
FORM TWO (2)
Time: 2 Hours

Instructions to the candidates

i. Write your name and admission number in the spaces above.

ii. Answer all the questions in the spaces provided.

iii. Check to ascertain that the paper has all questions.

iv. The paper has 8 printed pages.

FOR EXAMINER'S USE ONLY

QUESTION	SCORE	CANDIDATE'S SCORE
	20	
2.	20	
3.	10	
4.	10	
5.	20	
TOTAL	80	

1. <u>FUNCTIONAL WRITING</u> (20 MARKS)

Imagine you are to visit a relative who stays in Mombasa for 4 days.
Prepare a list of items you will carry to his place.

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2. <u>ORAL SKILLS</u> (20 Marks)

1. Read the poem below and answer the question that follows.

<u>BURY ME IN A FREE LAND</u>

Make me a grave wherever you will,
In a lowly plain, or a lofty hill;
Make it among earth's humblest graves,
But not in a land where men are slaves,
I could not rest if around my grave,
I heard the steps of a trembling slave;
His shadow above my silent tomb
Would make it a place of fearful gloom
I could not rest if heard the thread
Of a gang to the shambles led,
And the mothers shriek of wild despair
Rise like a curse on trembling air.

<u>Questions</u>

i) Identify and describe the rhyme scheme in the poem above. **(3mks)**

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ii) Identify and illustrate three sound devices used in the poem above that makes it rhythmic. **(6mks)**

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iii) Mention two ways that would help you know that the audience is fully participating during the recitation of the poem? **(3mks)**

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iv) How would you say the last line of the poem? **(2mks)**

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2. Identify the silent letter in each of the following words. **(3mks)**

I.Receipt
II. Scratch
III. Badge
IV.match
V.Debt
VI. Paradigm

3. Give another word that is pronounced the same as the following **(3mks)**

i. Weak **……**

ii. One **……..**

iii. Flour **…….**

iv. Blue **……**

v. Ate **…….**

vi. Due**…….**

3. Read the poem below and then answer questions that follow. **(10MKS)**

Your love flows through my veins
like the Nile River flows through
the sands of Egypt.
Your love flows through my veins
like rivers that break off into endless streams
and water the gardens of the green stems
of torn covered rose bushes.

In my veins, you flow, as a sparrow
flies through the blue skies in beauty.
You are the blood that flows through my veins
and later settles deep in my heart
and embraces me with a hug of intimacy.

Love flows through my veins
like endless notes played by the sweetest composer
along with his private orchestra playing a lovely melody.
Rivers, streams break off and flow into lakes and oceans,
Like my veins that lead to my heart,
you are always there flowing through my veins.
Your love flows through my veins.

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(a) Who is the speaker in this poem? **(2mks)**

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(b) Describe what the poem above is about. **(4mks)**

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(c) Identify **three** instances of similes in the poem. **(3mks)**

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(d) Give this poem a suitable title. **(1mk)**

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4. CLOZE TEST 10 MARKS

Fill in the blank spaces with the most appropriate word

I used to enjoy reading horror stories until I realized (1)_____much they affected me. I had to study late in the (2) _____to prepare for my examination. I used to be alone (3) _____the hall when everyone else was (4)_____. Very slight noise frightened me. I imagined that there was (5)_____ behind me while I was memorizing the Math's formulae. Every(6)_____ the curtains fluttered in the wind, my heart would skip a (7) _____. When my neighbours dog barked, I broke (8) _____ in goose bumps because dogs (9) _____assumed to be able to see spirits that are invisible to the human (10) _____

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5. GRAMMAR **20 MARKS**

(a)Rewrite the following sentences according to the instructions given. Do not change their meanings.

(4marks)

i. I go to church every week.

Replace the underlined words with one word.

……

……

ii. Not all the times I travel to South Africa.

Replace the words in bold with one word

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iii.I drank the porridge without sharing with anyone.

Replace the group of underlined words with a single word

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iv.I gave she a mango?

Correct the mistake

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(b) Use the most appropriate form of the word in brackets to fill the blank space. **(4mks)**

i. He is my **……**.friend. (child)

ii. The speaker expected all of us to demonstrate **……..** (kind)

iii.……will make you successful in life. (honest)

iv. What a provocative **……**.that was! (laugh)

(c) Write the correct form of the adjective given in brackets. **(4mks)**

i. The singer's fingers were **……t**han Martha's. (sensitive)

ii. Kiprop used the **……**materials he could. (good)

iii. George ground the nus into the **……..**powder. (fine)

iv. The **……..**moment came when the principal asked Faith to dance. (exciting)

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(d) Without using the words underlined, rewrite the following as questions beginning with the words in brackets.

(4mks)

i. People handle old machines <u>carefully</u>. (how)

……

……

ii. I saw them <u>yesterday</u>. (when)

……

……

iii. Guitarists <u>sometimes</u> play duets. (how often)

……

……

iv. Some students play <u>everywhere</u> in the field. (where)

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……

(e)Fill in the most <u>suitable preposition</u>. **(4mks)**

i. The students went **……..**the classroom.

ii. He is worried **……..**his results.

iii. Let me pay **……..**Jeff.

iv. He has been expelled **……..**school for his indiscipline

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EXCELLING STUDENTS FORM TWO
END TERM 2 SERIES TWO EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

Term 2

GEOGRAPHY

(QUESTION PAPER)

FORM TWO

TIME: 2 3/4 HOURS

INSTRUCTIONS' TO STUDENTS

- *This paper has **two** sections **A** and **B***
- *Answer **ALL** the questions in section **A** and **B**.*

SECTION A

*Answer **all** the questions in this section.*

1.(a) State **three** reasons why it is important to study Geography. **(3mks)**

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(b) What is the relationship between Geography and biology? **(2mks)**

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2.(a) What is weather forecasting? **(2mks)**

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(b) List **three** elements of weather. **(3mks)**

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3.(a) State two characteristic of the core of the earth**.** **(2mks)**

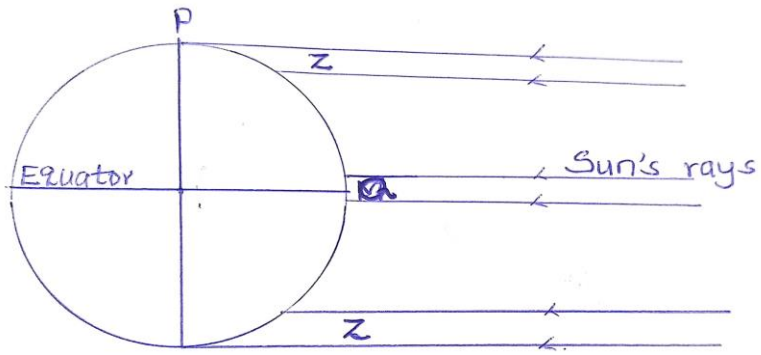
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(b) The diagram below shows the angles of the sun rays at different latitudes when the sun is at the equator. Use it to answer the question (i) and (ii)



(i) Name the part of the earth surface marked **P** **(1mk)**

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……

(ii) Give two reasons why the intensity of the insolation is higher at Q than Z? **(2mks)**

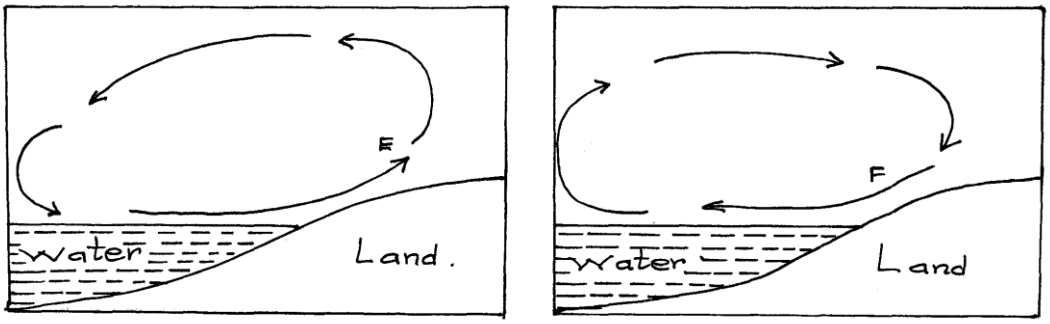
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4.a) Use the diagram below to answer the following questions



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i)Name the air currents marked E. **(1mk)**

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ii.) Describe how the current marked F occurs. **(3mks)**

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b.) Give a reason why air cools as it rises. **(2mks)**

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5. Describe how a maximum-minimum thermometer works. **(4mks)**

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SECTION B

*Answer question **6** and any other **TWO** questions from this section.*

6. Study the map of Nyeri (1:50000) provided and then answer the questions below.

(a) What

(i) type of map is Nyeri? **(1mk)**

……

……

(ii) is the name of the map? **(1mk)**

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(iii) is the title of the map? **(1mk)**

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(b)(i) Give two types of scales used in Nyeri map **(2mks)**

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(ii) Name two districts covered by the map **(2mks)**

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(iii) Give the sheet index to the North and to the South of Nyeri map **(2mks)**

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(c)(i) Give two methods used to represent relief in Nyeri map **(2mks)**

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(ii) Name three ways that can be used to locate a place in Nyeri map **(3mks)**

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(iii) Give the vertical interval of the map **(2mks)**

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(d) (i) Calculate area of Nyeri forest in square km **(3mks)**

(ii) Measure the length of the National park boundary up to the edge of the forest in km **(2mks)**

(iii) Name four types of vegetation shown in the map **(4mks)**

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7. (a) (i) Differentiate between rocks and minerals. **(2mks)**

(ii) Describe the following characteristics of minerals.

- Color. **(2mks)**
- Hardness. **(2mks)**

(b) (i) What are igneous rocks? **(2mks)**

(ii) State ***three*** differences between plutonic and volcanic rocks. **(3mks)**

(c) Describe the formation of the following rocks.

(i) Mechanically formed sedimentary rocks. **(3mks)**

(ii) Chemically formed sedimentary rocks. **(3mks)**

(d)(i) Identify the missing type of rocks. **(3mks)**

Original rock	Metamorphic rock
Limestone	(i)
(ii)	Graphite
Granite	(iii)

(ii) Suppose you were to carry out a field study on rocks at the Kenyan coast. State ***two*** reasons as to why you would ask for permission from the school administration. **(2mks)**

(iii) What reasons would you give for the widespread of sedimentary rocks at the coastal plain? **(3mks)**

8.(a) (i) Name three types of faults. **(3mks)**

(ii) Apart from compressional forces, explain two other processes that may cause faulting. **(4mks)**

(b) With the aid of diagrams, describe how compressional forces may have led to the formation of the Great Rift Valley. **(8mks)**

(c) Explain three ways in which faulting is of significance to human activities. **(6mks)**

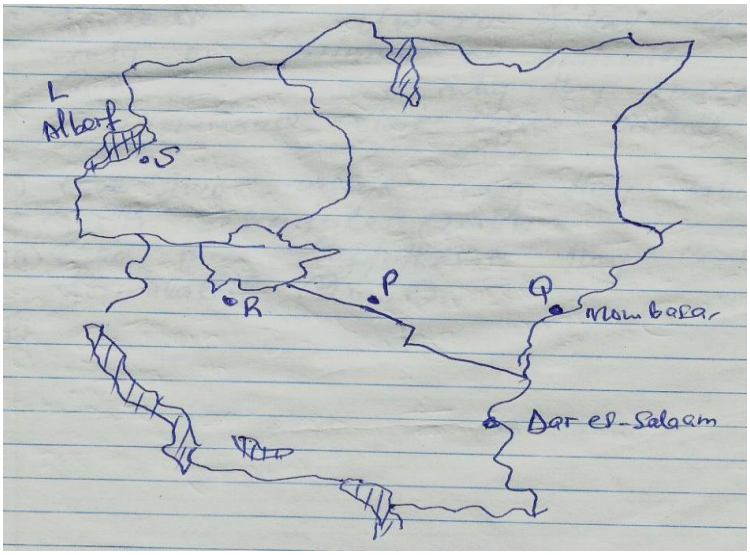
(d) suppose you are to carry out a field-study on a faulted are

(i) State two methods you would use to collect data. **(2mks)**

(ii) Name two features resulting from faulting you are likely to observe. **(2mks)**

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9. Use the map of East Africa to answer questions a(i) and (ii)



(a)(i) Name the minerals mined at the following marked areas S, P, and Q. **(3mks)**

(ii) Give **three** types of minerals. **(3mks)**

(b) Describe how vertical shaft method of mining is carried out. **(4mks)**

(c)(i) Mention **two** ports through which some of the minerals mined in East Africa are exported. **(2mks)**

(ii) Explain **three** ways in which mining affects the environment. **(6mks)**

(d) Students of a school carried a field study on mining of diatomite in Nakuru County.

(i) Give **two** reasons why they carried out a reconnaissance visit before actual study. **(2mks)**

(ii) Give **two** reasons why they formulated a work scheduled. **(2mks)**

(iii) Give **three** hypothesis they could have formulated. **(2mks)**

10. a) What is vulcanicity? **(2mks)**

b)i) Apart from sill name other intrusive volcanic features. **(3mks)**

ii.) Describe how the following features are formed

- A sill. **(5mks)**
- Plug dome.

(5mks)

iii) Differentiate between a lava and a magma. **(2mks)**

c)Explain four negative effects of vulcanicity on physical environment. **(8mks)**

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EXCELLING STUDENTS FORM TWO
END TERM 2 SERIES TWO EXAMS

NAME: ……

SHOOOL: ……..

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

Term 2
HISTORY AND GOVERNMENT (311)
FORM TWO (2)
Time: 2½ Hours
Instructions to Candidates

(a) This paper consists of **three** sections **A, B** and **C.**

(b) Answer **ALL** QUESTIONS in section **A,THREE** from Section **B** and **ALL QUESTIONS** from Section **C.**

(c) Answers to all the questions must be written legibly in the answer booklet provided.

(d) Candidates should answer the questions in English

FOR EXAMINERS USE

SECTION	QN	MAX	SCORE
A (25 Marks)	1-17	25	
	18	15	
	19	15	
	20	15	
	21	15	
	22	15	
	23	15	
	24	15	
GRAND TOTAL		100%	

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SECTION A (25 MARKS)

ANSWER ALL THE QUESTIONS IN THIS SECTION

1. Identify two forms of oral sources of information on History and Government. **(2mks)**

2.Give the most important development of man in the Middle Stone Age Period. **(1mk)**

3.State two disadvantages of the Open field system practiced before Agrarian Revolution. **(2mks)**

4.State two reasons why African slaves were preferred to other races. **(2mks)**

5.Give one advantage of animal transport. **(1mk)**

6.Identify one traditional form of communication. **(1mk)**

7.Give two factors that facilitated the spread of iron working in Africa. **(2mks)**

8.Give two advantages of using the steam engine in the transport industry in the 19^{th}century. **(2mks)**

9.Give the main reason why Mijikenda lived in kayas **(1mk)**

10. Name the two winds which were used by the early visitors to and from the East African coast up to 1500 A.D. **(2mks)**

1**1.**Define the term dual citizenship **(1mk)**

12. Outline two political responsibilities of a Kenyan citizen **(2mks)**

13. Identify two groups that monitor Human Rights in Kenya **(2mks)**

14. Identify the main method of trade in Africa during the pre-colonial period **(1mk)**

15. Give one example of a regional trade **(1mk)**

16. Identify one peaceful method of conflict resolution **(1mk)**

17.Name the Deputy President Elect of the Republic of Kenya in accordance with General Elections held on 9^{th} of August 2022. **(1mk)**

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SECTION B (ANSWER ANY THREE QUESTIONS IN THIS SECTION)

(45 MARKS)

18.a) State three distinct features of the Homo Habilis. **(3mks)**

b) Describe the culture of the Early man during the Middle Stone Age period. **(12mks)**

19(a) Give five reasons which led to the migration of the Cushites from their original homeland into Kenya during the pre-colonial period **(5mks)**

(b) Explain five results of interaction between the Cushites and Bantus in Kenya during the pre-colonial period **(10mks)**

20.(a) State five reasons why Seyyid said moved his capital from Muscat to Zanzibar **(5mks)**

(b) Describe five factors which influenced the Akamba to participate in the long-distance trade **(10mks)**

21 a) Give three advantages of using railway transport over road transport. **(3mks)**

b. Explain six effects of telecommunication on modern society. **(12mks)**

SECTION C (30 MARKS)

ANSWER ALL THE QUESTIONS FROM THIS SECTION

22a) State five values of good citizenship. **(5mks)**

b) Explain Five reasons that can lead to Kenyan citizenship being revoked. **(10mks)**

23 a) List three items acquired from Europe during the Trans-Atlantic trade **(3mks)**

b) Explain six social-political impacts of the Trans-Atlantic trade on the people on African communities **(12mks)**

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EXCELLING STUDENTS FORM TWO
END TERM 2 SERIES TWO EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

TERM 2

HOME SCIENCE

FORM TWO (2)
PAPER 1 THEORY (441/1)

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) ***This paper consists of 14 printed pages***
g) ***Students should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing***
h) ***Students should answer the questions in English***

For examiner's use only

Section	Question	Maximum Score	Student's Score
A	1- 21	40	
B	22	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** reasons for airing clothes before storage. **(1mk)**

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2. Name **four** parts of a sewing machine. **(2mks)**

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3. Give **two** effects of lack of calcium in a child. **(2mks)**

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4. Highlight **two** qualities of a good water bottle. **(2mks)**

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5. Mnene had a packed lunch of chips and ready-made juice. What **two** food groups were lacking in his meal? **(1mk)**

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6. Mention **two** qualities of good deep frying oil. **(2mks)**

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7. Give **four** diseases that can be spread by mosquitoes. **(2mks)**

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8. Suggest **two** reasons why salt is fortified. **(2mks)**

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9. Give **two** reasons for repairing clothes. **(2mks)**

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10. Mention **two** qualities of a good wooden spoon. **(1mk)**

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11. Identify **three** functions of carbohydrates in the body. **(3mks)**

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12. Give **two** ways of storing dressmakers' pins. **(1mk)**

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13. Suggest **two** disadvantages of using a plain cemented floor in a living room. **(2mks)**

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14. State **two** reasons for finishing wooden surfaces. **(2mks)**

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15. Highlight **three** disadvantages of cooking with charcoal. **(3mks)**

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16. Mention **two** conditions which might lead to breeding of flies in a home. **(2mks)**

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17. Give **two** functions of a clothes horse. **(2mks)**

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18. List **four** irons that may be found in a home. **(2mks)**

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19. Suggest **three** qualities of a good floor mop. **(3mks)**

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20. Name **two** water borne disease. **(1mk)**

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21. Suggest **four** possible causes of hypertension. **(2mks)**

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SECTION B: (20 marks)

COMPULSORY

Answer question 22 in the spaces provided after the question

22. You are helping in preparations for your younger brother's 10^{th} birthday.

a) Give the procedure you will follow in cleaning the polished floor of the room you will use for the party. **(10mks)**

b) Describe how you launder a fast coloured cotton table to be used during the party. **(10mks)**

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SECTION C: (40 marks)

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

23.

a) Discuss **four** causes of malnutrition in Kenya. **(8mks)**

b) Highlight **five** symptoms of vitamin C deficiency. **(5mks)**

c) Give **three** functions of proteins in the body. **(3mks)**

d) Explain **four** points on care of a gas cooker. **(4mks)**

24.

a) Suggest **five** reasons why people buy second-hand clothes. **(5mks)**

b) Explain **six** ways of avoiding environmental pollution. **(6mks)**

c) Outline **five** signs of anaemia. **(5mks)**

d) Mention **four** rules to observe when deep frying food. **(4mks)**

25.

a) Identify **four** nutrients found in maize. **(4mks)**

b) Give **five** ways of making dormitories safe for students. **(5mks)**

c) Discuss **four** reasons why linen is not suitable for making a swimming costume. **(8mks)**

d) Suggest **three** ways of shortening the cooking time of dry maize. **(3mks)**

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EXCELLING STUDENTS FORM TWO
END TERM 2 SERIES TWO EXAMS

NAME: ……..……

SHOOOL: ……..……

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

Term 2

ISLAMIC RELIGIOUS EDUCATION (314)

FORM TWO (2)

Time: 2 Hours

.**INSTRUCTIONS**:

1. This paper contains eight (8) questions.

2. Answer all questions

3. Write your answers in the answer sheet provided.

4. All answers must be in English.

1a. Explain the reason why Zaid bin Thabit was choosen as the head of the panel of compilation of Qur'an **(6mks)**

b. State the attributes mentined in Ayatul Kursi. **(5mks)**

c. Explain the teaching of the last three verses of Suratul Baqarah **(7mks)**

2a. Explain the two componets of hadith. **(4mks)**

b. Enumerate ways through which the sahabas assisted in transmission of Hadith. **(6mks)**

3a. Describe the performance of Hajj from 8^{th} to 13^{th} Dhul Hijja **(10mks)**

b. Explain the different types of saumu **(10mks)**

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4a. Name the scriptures of Allah with their prophet in order. **(5mks)**

b. Why is prophet Muhammad (PBUH) considered as the final and seal of prophets? **(5mks)**

c. Explain the three types of shirk **(6mks)**

5a. Giving examples explain the two dimensions of akhlaq in islam **(4mks)**

6a. List the rights of a Muslim girl child **(6mks)**

b. what are the conditiond for marriage ? **(5mks)**

7a. Write four terms of the first pledge/convenant of Al Aqaba. **(4mks)**

b. Why is Hijrah regarded as a turning point in the Islamic history **(7mks)**

c. What are the themes found in the prophet's farewell speech? **(4mks)**

8a. Enumerate the lessons we can learn from Sheik Abdallah al Farsy. **(6mks)**

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EXCELLING STUDENTS FORM TWO
END TERM 2 SERIES TWO EXAMS

JINA: ……..……

SHULE: ……..

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

KISWAHILI

MUHULA WA PILI

KIDATO CHA PILI

MUDA: SAA 2:30

Maagizo:

1. Jibu maswali yote.
2. Majibu yote yaandikwe katika nafasi ulizoachiwa katika karatasi hii ya maswali
3. Majibu yote **lazima** yaandikwe kwa lugha ya Kiswahili
4. Karatasi hii ina kurasa 9 zilizopigwa chapa
5. **Watahiniwa lazima wahakikishe kuwa kurasa zote za karatasi hii zimepigwa chapa sawasawa na kuwa maswali yote yamo.**

Matumizi ya mtahini pekee

SEHEMU	UPEO	ALAMA
UFAHAMU	15	
UFUPISHO	15	
MATUMIZI YA LUGHA	40	
ISIMUJAMII	10	
JUMLA	80	

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A. UFAHAMU (alama 15)

Soma taarifa ifuatayo kisha ujibu Maswali

Ulimwengu mzima ulisimama ghafla na shughuli za kawaida zikakwama katika mataifa yote duniani. Walimwengu walipata kibarua kigumu mno huku shughuli za uchukuzi wa kimataifa zikitatizika kwa njia zisizomithilika. Ikumbukwe pia kuwa masomo yalitatizika pakubwa huku viwango vyote vya shule vikifungwa.

Vituo vya afya navyo vilifurika kwa msongamano mkubwa wa watu huku wahudumu wa afya wakilemewa na idadi kubwa ya wagonjwa. Wahudumu hao walijipata kwenye wadi na vyumba vya wagonjwa mahututi na wengine wengi walifariki . Wengineo walikosa nafasi ya matibabu au ya kulazwa katika hospitali walizohudumu.

Uchumi uliathirika pakubwa. Watu wengi walipoteza kazi zao. Wengine walitumwa nyumbani kwa likizo bila malipo nao wengine wakikatwa mishahara kwa asilimia kubwa. Biashara nazo hazikusazwa na gonjwa hili kwani nyingi zilifungwa wengine wakipata hasara chungu nzima. Benki zilijipata kwa njia panda kwa wateja kushindwa kulipa mikopo.

Usisahau kuwa maelfu ya watu walipoteza maisha yao huku wengine wengi wakiendelea kukabiliana na makali ya ugonjwa wa Covid-19 ambayo kwa sasa ni uhakika kuwa umejua kuwa ndio ninaozungumzia. Kenya, kama mataifa mengine ulimwenguni inaendelea kukabiliana na janga hili.

Miongoni mwa dalili za mapema za maambukizi ya gonjwa hili ni kukohoa, kushindwa kupumua au ugumu wa kupumua, joto jingi au baridi kali mwilini, maumivu ya misuli au mwili, kutapika au kuendesha, kupoteza hisia za kuonja na kunusa miongoni mwa mengine. Yeyote anayeonyesha dalili hizi anashauriwa kujitenga na kwenda hospitalini mara moja.

Ni muhimu kujilinda dhidi ya virusi hivi. Vaa barakoa kila wakati unapoenda kwenye watu. Kumbuka kuosha mikono yako kwa maji yanayotiririka na sabuni au kuitakasa. Epuka mikusanyiko ya watu na uzingatie umbali wa mita moja unapokumbana na watu. Kaa nyumbani kama inawezekana. Wenye magonjwa mengine kama shinikizo ya damu, ukimwi, saratani, kisukari miongoni mwa mengine na pia watu wenye umri wa juu wanashauriwa na wataalamu wa afya wawe makini zaidi kwani wamo hatarini zaidi.

Hebu tugeukie mikakati mbali mbali iliyowekwa na serikali ya Kenya tangu kuliporipotiwa kisa cha kwanza nchini. Serikali ilitangaza kufungwa kwa shule. Kando na kufungwa huko, kafyu ya saa moja usiku hadi saa kumi na moja asubuhi iliwekwa hapo awali, hatua iliyolegezwa baadaye. Kufungwa kwa uchukuzi wa kimataifa ulitangazwa huku uchukuzi nchini ukidhibitiwa kwa kupunguzwa kwa idadi ya watu kwenye uchukuzi wa uma. Mikusanyiko ya watu ulipigwa marufuku nazo kanisa zikifungwa japo kwa muda. Idadi ya watu katika arusi na mazishi ilipunguzwa mno. Maeneo ya burudani pia yalifungwa kwa muda nayo maeneo ya maabadini yalifungwa miongoni mwa mikakati mingine.

Baada ya miezi kadhaa, makali ya janga hili tandavu yalizidi kuwakumba wakenya huku kufungwa kwa nchi kukiendelea kuathiri shughuli ya kawaida za kujikimu. Serikali iliweka mikakati ya kuinua uchumi. Wakenya wa viwango vya chini walitumiwa pesa za kujikimu huku wafanyibiashara wadogo wakiinuliwa kwa mikopo. Serikali pia ilizirai benki kuzungumza na wadeni wao na kuwasogezea nyakati za kulipa. Ikumbukwe pia serikali ilipunguza au kuondoa ushuru kwa Wakenya wenye kipato cha chini. Serikali pia ililazimika kulegeza mikakati kadhaa ili kuwapa Wakenya nafasi ya kujichumia. Saa za Kafyu zilipunguzwa huku uchukuzi wa kitaifa na kimataifa ukifunguliwa upya. Shule pia zilianza kufunguliwa japo kwa watahiniwa. Wamiliki wa maeneo ya burudani walinufaika na kufunguliwa kwa maeneo hayo. Viongozi wa kidini na wafuasi wao walikuwa na kila sababu ya kutabasamu baada ya serikali kuwafungulia maeneo ya kuabudu.

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Wakenya wanaendelea kuhimizwa kufuata kanuni za wizara ya Afya dhidi ya Covid -19. Hii inaendelea huku Wakenya wakilaumiwa kwa kutovaa barakoa, kuendelea kutangamana katika mikutano ya kisiasa, kutoosha wala kutakasa mikono, kutozingatia saa za kafyu miongoni mwa mengine.

Ulimwengu unaendeleza mchakato wa kutafiti na kutafuta chanjo ya korona huku baadhi ya mataifa yakitangaza kupiga hatua kubwa na kwamba tutakwamuliwa hivi karibuni. Kujilinda kunabaki kuwa chanjo kuu.

Maswali

a. Thibitisha kwamba Covid-19 umezuia utangamano wa kimataifa. **(Alm1)**

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b. Eleza kinaya inayojitokeza kwa Covid-19 na wahudumu wa afya. **(Alm1)**

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c. Covid -19 imesababisha madhara mengi ya kiuchumi. Thibitisha ukweli wa kauli hii kwa hoja tatu. **(Alm3)**

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d. Taja dalili zozote mbili za maambukizi ya virusi vya korona. **(Alm1)**

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e. Eleza matendo matatu kulingana na kifungu hiki ambayo yanamweka mtu kwenye hatari ya maambukizi ya ugonjwa huu **(Alm3)**

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f. Taja mikakati miwili iliyowekwa na serikali ya Kenya kukabiliana na virusi hivi**.** **(Alm2)**

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g. Serikali ya Kenya ililegeza mikakati yake vipi? **(Alm1)**

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h. Eleza maana ya maneno yafutayo jinsi yalivyotumika kifunguni **(Alm2)**

i) Kafyu

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ii) Mchakato

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B. **UFUPISHO (alama 15)**

Katika kipindi cha miezi kadhaa iliyopita, kumekuwa na mfumko wa bei ya bidhaa muhimu hivi kwamba idadi kubwa ya raia wanalala njaa.Uchunguzi uliofanywa na mashirika ya kijamii kuhusu bei ya bidhaa hizo umeonyesha kuwa familia za kawaida zinatumia nusu ya mapato yao kununua chakula .Bila shaka yoyote,hili ni janga linaloendelea kutokota .Tunafahamu kuwa kupanda kwa bei ya petroli kimataifa kumechangia kuongezeka kwa bei hiyo ya vyakula ,kwa namna moja au nyingine.

Mbali na vyakula ,gharama ya kupangisha nyumba,maji,stima na mafuta imepanda kwa muda wa miezi sita iliyopita kati ya Februari na Julai 2022. Kwa mujibu wa Benki ya dunia, kupanda kwa bei ya vyakula kumesukuma familia nyingi katika lindi la umaskini.

Ingawa serikali haina uwezo wa kuthibiti baadhi ya sababu zinazochochea kuongezeka kwa bei ya vyakula nchini,haipaswi kutulia tuli ikisubiri suluhisho litokee kisadfa. Inasikitisha kwamba viongozi wetu wanatumia muda mwingi kuchapa siasa huku raia wa kawaida wakiendelea kuumia. Iweje basi kwamba katika vikao vyao vya hadhara wanasiasa wanatumia muda mwingi kuzungumzia maswala ya kugawana wananchi na kufichua njama za kuwaangamiza wapinzani wao badala ya kueleza namna watakavyokabiliana na janga lililopo la njaa.Ni lini watafahamu kwamba huwezi kumtawala mtu mwenye njaa.

Kwa muda mrefu ,baa la njaa limekuwa likihusishwa na maeneo ya kaskazini mwa nchi yetu; lakini kama uchunguzi ulivyoonyesha, familia nyingi nchini zinaumia na wengi hawawezi kumudu bei ya bidhaa muhimu kama sukari ,unga,mafuta ya kupikia na kadhalika.

Wakati umewadia kwa serikali kuchukua hatua madhubuti kwa kuwa, kama ilivyo ,ni vigumu kumtawala mtu aliye na tumbo tupu na mbaye hajijui wala hajitambui kuhusu atakapopata lishe.

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MASWALI

(a) Ukizingatia taarifa uliyosoma, fafanua athari za mfumko wa bei kwa wananchi. **(alm5)**
(maneno 35)

MATAYARISHO

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MAJIBU

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(b) Eleza mambo muhimu anayoyazungumzia mwandishi katika aya za mwisho nne.
(Maneno 55-60) **(alm8)**

MATAYARISHO

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MAJIBU

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C. MATUMIZI YA LUGHA.(alama 40)

a) Taja ala zinazotumiwa katika sauti zifuatazo. **(alm1)**

(i) dh.....

(ii) m.....

b) Unda neno lenye sauti zifuatazo **(alm1)**

kipasuo sighuna cha midomoni,irabu ya mbele juu,kitambaza, irabu ya mbele juu

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c) Tofautisha shadda na kiimbo **(alm2)**

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d)

i)Mofimu ni nini? **(alm1)**

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ii) Tambua mofimu katika fungutenzi hili **(alm3)**

kilichoangukiwa

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e) Tumia nomino za aina ulizopewa katika sentensi moja. **(alm2)**

(i) nomino mahususi.

(ii) nomino ya wingi.

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f) Tunga sentensi sahihi na ubainishe kiima na kiarifu. **(alm2)**

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g) Fuata maagizo:Wanafunzi walitosheka na chakula **(alm2)**

Anza kwa : Chakula

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h) Changanua sentensi ifuatayo kwa kielelezo cha matawi. **(alm4)**

Askari jela amefikishwa mahakamani.

i) Tumia ngeli ya ku- katika sentensi ya wingi. **(alm2)**

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j) Tunga sentensi na uonyeshe kirai nomino, kirai kivumishi na kirai kielezi **(alm3)**

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k) Onyesha matumizi mawili ya herufi kubwa **(alm2)**

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l) Andika katika ukubwa. **(alm2)**

Mji huu una watu wengi.

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m) Kanusha sentensi ifuatayo **(alm2)**

Mwanafunzi akitia bidii atapita mtihani

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n) Bainisha matumizi ya 'na' katika sentensi ifuatayo **(alm2)**

Askari na jambazi wana silaha kali.

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o) Tunga sentensi moja kutofautisha vitate vifuatavyo. **(alm2)**

i) Mji
ii) Mchi

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p) Andika katika kinyume **(alm1)**

Juma alimwoa Frida mwaka jana.

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q) Andika katika usemi wa taarifa **(alm2)**

"Hamjambo wanafunzi wangu,"mwalimu alisema.

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r) Tungia kiunganishi 'maadamu' sentensi sahihi **(alm2)**

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s) Eleza maana ya misemo ifuatayo. (alama 2)

(i) kupiga domo

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(ii) kupiga kijembe

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D. ISIMU JAMII (ALAMA 10)

Mhusika.
X:Hebu sema majina yako kamili?
Y:Mussa bin Maksuudi.
X:Ulisema unataka kukata rufani? Kulingana na kifungu sheria nambari 2 (a), una haki hii.
Y:Ikiwezekana mheshimiwa.
X:Usitie shaka umepata presidential amnesty.
Y:Alhamdulillahi, Nitaenda Msikitini Ijumaa kuabudu na kumshukuru Mungu.

Maswali

(a) Tambua muktadha wa mazungumzo haya. **(alm2)**

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(b) Tambua wahusika **(alm2)**

X……

Y……

(c) Eleza sifa zozote sita za lugha inayotumika katika mazungumzo haya. **(alm.6)**

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EXCELLING STUDENTS FORM TWO

END TERM 2 SERIES TWO EXAMS

NAME: …….

SHOOOL: ……...……

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

END TERM 2

MATHEMATICS (121)

FORM TWO (2)

TIME: 2 ½ HOURS

INSTRUCTIONS TO THE CANDIDATES

- *Write **your name** and **index number** in the spaces provided above*
- *This paper contains two sections; **Section** 1 and **Section 11**.*
- *Answer all the questions in **section 1** and only **five** questions from **Section 11***
- *All workings and answers must be written on the question paper in the spaces provided below each question.*
- *Marks may be given for correct working **even if** the answer is wrong.*
- *Non programmable silent electronic calculators and KNEC Mathematical tables may be used **EXCEP**T where stated otherwise.*
- *Show all the steps in your calculations, giving your answers at each stage in the spaces below each question.*
- *This paper consists of **15** printed pages. Candidates should check carefully to ascertain that all the pages are printed as indicated and no questions are missing.*

FOR EXAMINERS'S USE ONLY

Section 1

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

Section 1I **GRAND TOTAL**

Question	17	18	19	20	21	22	23	24	**Total**
Marks									

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SECTION 1 (50 MARKS)

Answer all questions in the spaces provided.

1. Evaluate without using a calculator $\dfrac{\left(2\frac{3}{7}-1\frac{5}{6}\right)\div\frac{5}{6}}{\frac{2}{3}of\,2\frac{1}{4}-1\frac{1}{7}}$ **(4mks)**

2. Solve for x **(3mks)**

$\frac{3^x}{9}=\frac{1}{3^{1-2x}}$

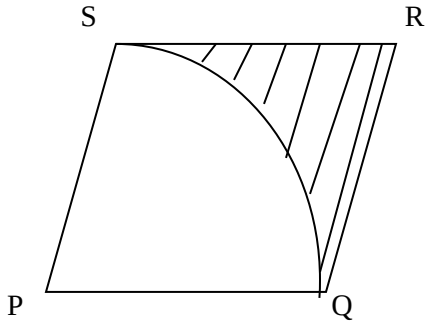
3. A straight line L_1 is perpendicular to another line L_2 whose equation is 3y+4x=12. If the two lines meet at point P which lines on the x-axis, find:

(i) The co-ordinate of point P **(2mks)**

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(ii) The equation of line L_1 in the form y=mx+c **(2mks)**

4. The figure below shows a rhombus PQRS with PQ= 9cm and ‹SPQ=60^0. SXQ is a circular arc, centre P.



Calculate the area of the shaded region correct to two decimal places. (Take Pie = 22/7) **(3mks)**

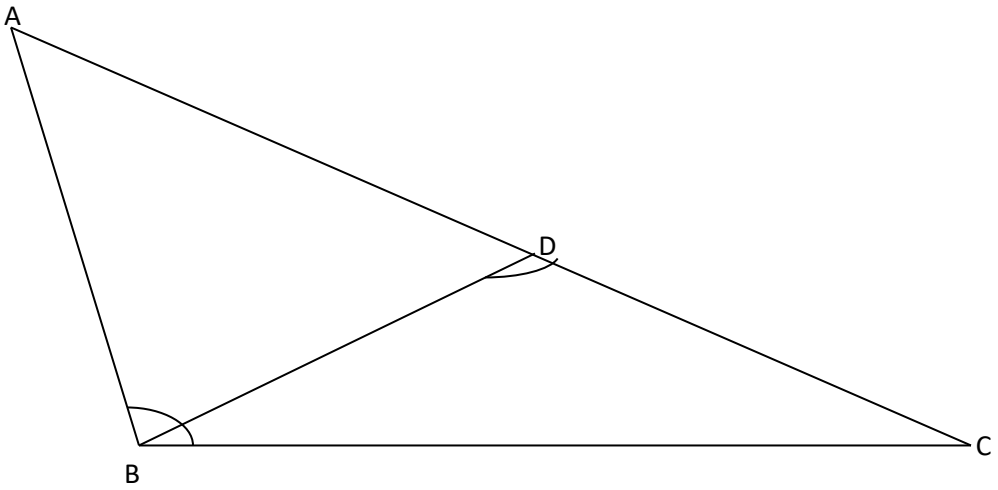
5. Evaluate using logarithms. **(4mks)**

$$\sqrt[4]{\frac{723.9\times\log 8.765}{3400+23.4}}$$

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6. Mr. Kaunda who deals in electronics sells a radio to a customer at Kshs. 1,440 after giving him a discount of 10% but finds that he still makes a 20% profit. Find the profit Mr. Kaunda would make if he does not give a discount. **(3mks)**

7. The figure below shows a triangle ABC not drawn to scale, D is a point on line AC. Given that BC=14cm, DC=7cm and ∠ABC=∠BDC. Find the length of AD. **(3mks)**



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8. Patricia a student at Bidii mixed Secondary bought 5 pens and 3 exercise books from Solving supermarket at Kshs. 135, at the same time Jane her class mate also bought 4 pens and 5 exercise books and spent Ksh. 25 more than Patricia. Find the cost of each pen and exercise book **(3mks)**

9. Evaluate using mathematical tables only expressing your answer to 4 significant figures

$$\frac{4}{0.2356} + (0.9873)^3$$ **(3mks)**

10. 200 cm^3 of acid is mixed with 300 cm^3 of alcohol. If the densities of acid and alcohol are 1.08g/cm^3 and 0.8 g/cm^3 respectively, calculate the density of the mixture. **(3mks)**

11. Given that $\sin (3x-35)^o - \cos (x+20)^o = 0$ and x is an acute angle, find its value **(2mks)**

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12. A Kenyan company received US dollars 100,000. The money was converted into Kenyan shillings in a bank which buys and sells foreign currencies as follows

Buying (In Kshs)	Selling (In Kshs)
1 US dollar 77.24	77.44
1 Sterling pound 121.93	122.27

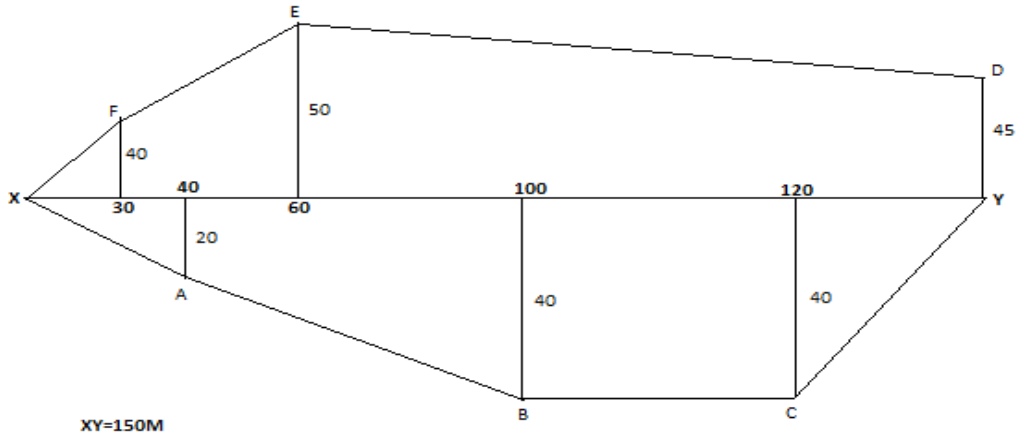
a) Calculate the amount of money in shillings the company received. **(2mks)**

b) The company exchanged the Kenyan Shillings calculated in (a) above into Sterling Pounds to buy a car from Britain. Calculate the cost of the car to the nearest Sterling Pound. **(2mks)**

13. The sum of the interior angles of a polygon is 1980^0. Find the number of sides the polygon has. **(3mks)**

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14. The diagram below is a sketch of a rice field (not drawn to scale), use it to generate a surveyor's field book. (All measurements are in metres) **(4mks)**



15. The principal of a secondary school would wish to cover the floor of the new administration block using the square tiles. The floor is a rectangle of sides 12.8m by 8.4m. Find the area of each of the largest tiles which can be used to fit exactly without breaking **(3mks)**

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16. A two – digit number is such that the sum of the digit is 12. If the digits are interchanged the value of the new number formed is fifteen more than twice the value of the original number. Find the original number? **(3mks)**

SECTION B (50 MARKS)

Answer ONLY FIVE questions in this section in the spaces provided

17. A trader bought 2 cows and 9 goats for a total of Ksh. 98,200. If she had bought 3 cows and 4 goats, she would have spent Ksh. 2, 200 less.

(a) Form two equations to represents the above information. **(2mks)**

(b) Determine the cost of a cow and that of a goat. **(4mks)**

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(c) The trader later sold the animals she had bought making a profit of 30% per cow and 40% per goats.

i) Calculate the total amount of money she received**. (2mks)**

ii) Determine corrects to 4 significant figures the percentage profit the trader made from the sale of animals. **(2mks)**

18. Four towns **W, A, N** and **G** are such that W 15km from **A** on a bearing of 158^{o}, **N** is to the west of **A** and 20km away while **G** is to the South of **N** and on a bearing of 240^{o} from **W**.

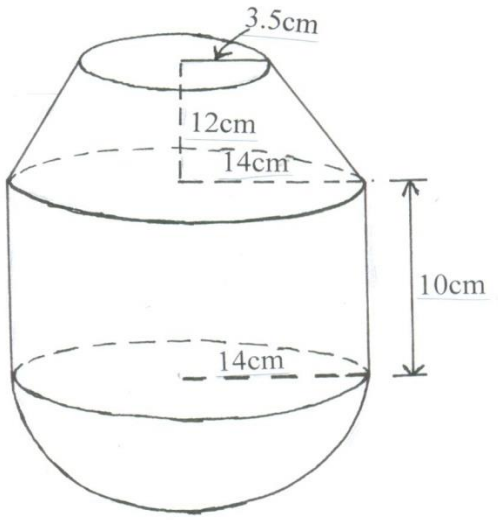
(a) Using a scale of 1:400,000 draw a scale diagram showing the relative positions of the four schools. **(5mks)**

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(b) Using your diagram determine the distance and bearing of **G** from **A** **(2mks)**

(c) A mast is to be erected so that its equidistant from **A** and **N** and 20km from **G** on the same diagram show the position of the mast and find its distance from **W.** **(3mks)**

19.



A right frustrum of base radius 14cm, top radius 3.5cm and height 12cm is stuck onto a cylinder of base radius 15.4cm and height 10cm and further attached to a hemisphere to form a closed solid as shown above.

(Use $\pi = {}^{22}/_{7}$)

Find

(a) The full height of the solid. **(1mk)**

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(b) The volume of the solid. **(4mks)**

(c) The total surface area of the solid. **(5mks)**

20. Using a pair of compass and ruler only construct.

(a) Triangle PQR in which PQ =5cm$\angle$QPR = 30^0 and $\angle$PQR=105^0. **(3mks)**

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(b)A circle that passes through the vertices of the triangle PQR. Measure its radius**.** **(3mks)**

(c) The height of triangle PQR with PQ as the base. Measure the height. **(2mks)**

(d) Determine the area of the circle that has outsides the triangle correct to 2 decimal places **(2mks)**

21. Lines L_1 is given by equation $y = -2x + 4$ and L_2 is $3x - y = 1$ intersect at T.
(a) Determine the co-ordinates of T. **(2mks)**

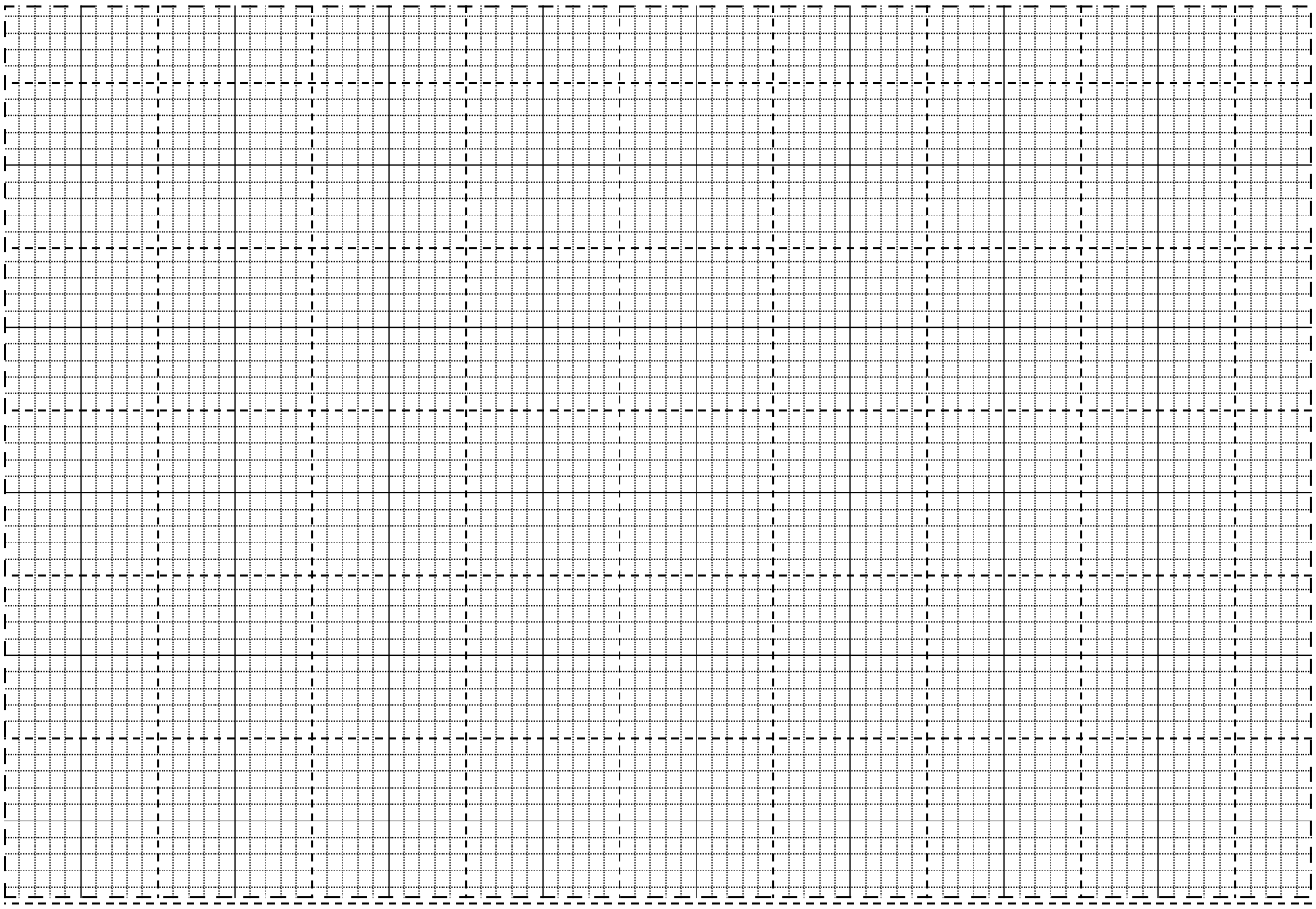
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(b) Another line, L_3 is perpendicular to line L_2 and passes through point N(5,8).Determine its equation and leave the answer in the form of ax + by=c where a, b, and c are integers**.** **(4mks)**

(c) Determine the equation of a perpendicular bisector of a line segment passing through points T and N. **(4mks)**

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22. (a) On a graph paper, plot the points A (1,2), B (2,2), C(2,1), D(3,3) and join them to form a quadrilateral ABCD. **(2mks)**



(b)(i) On the same grid, draw a quadrilateral A'B'C'D' which is the image of ABCD under enlargement center P (1, 1) and scale factor 3. Write down coordinates of A'B'C'D'. **(4mks)**

(ii) On the same axes, draw a quadrilateral A''B''C''D'' with vertices A'' (-2,1) B''(-2,2) C''(-1,2) and D''(-3,3). **(2mks)**

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(c) Describe transformation which maps ABCD onto A'' B'' C'' D''**.** **(2mks)**

23. A flag post stands on the top edge of a vertical cliff. From a boat on the sea, the angle of elevation of the top of the post is found to be 32^0. After the boat advances a distance'd' metres towards the cliff, the angle of elevation of the top and bottom of the post are 65^0 and 62^0 respectively. If the height from the base of the cliff to top of the post is 80 metres, calculate;

a) The height of the post. (8 marks)

b) The distance 'd' in metres **(2mks)**

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24. A small field was surveyed and the measurements recorded in a surveyor's field book as in the table below.

		100	0	F
		65	40	D
E	30	50		
		30	25	B
C	20	20		
A	0	0		

i) Using a scale of 1cm to represent 10m, make an accurate drawing of the map of the field. **(4mks)**

ii) Find the area of the field **(6mks)**

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EXCELLING STUDENTS FORM TWO
END TERM 2 SERIES TWO EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

Term 2
PHYSICS (232)
FORM TWO (2)
Time: 2 Hours

Instructions
(a) Write your name, admission number and stream in the spaces provided above.
(b) Sign and write the date of the examination in the spaces provided above.
(c) This paper consists of **two** sections **A** and **B.**
(d) Answer **all** the questions in sections **A** and **B** in the spaces provided.
(e)All working **must** be clearly shown.
(f) Silent non-programmable electronic calculators may be used.
(g)This paper consists of 11 printed pages.
(h)Check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.
(i)Answer the questions in English.

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Section	Questions	Maximum Score	Candidate's Score
A	1-14	25	
	15	11	
	16	11	
	17	12	
	18	11	
	19	10	
	Total Score	**80**	

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SECTION A (25 MARKS)

1. State two conditions that must be met for a body to be at equilibrium. **(2mks)**

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2. The figure1 below shows an open end manometer connected to a gas cylinder.

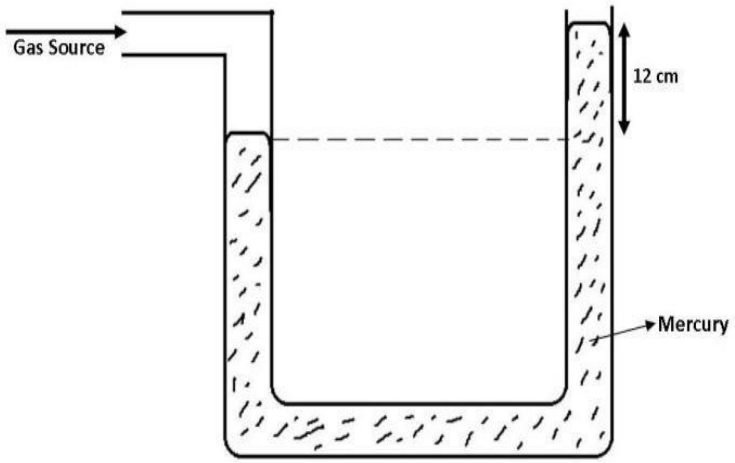


Figure 1

The atmospheric pressure at that point is 760 mmHg. Assuming that there is no loss in pressure from the gas cylinder, calculate the pressure of the gas in the cylinder. **(3mks)**

3. Why is repulsion of poles considered the surest test for determining polarity? **(2mks)**

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4. State two effects of a force on motion of a body**.** **(2mks)**

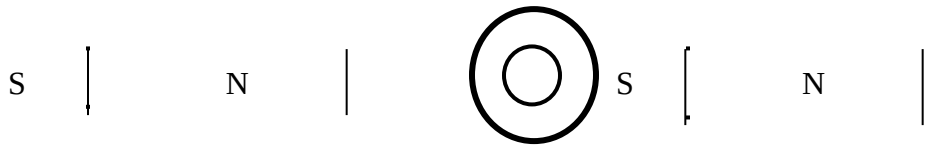
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5. Sketch magnetic field pattern for the arrangement of magnets below**.** **(1mk)**



copper ring

6.(a) Study the arrangement of layers of water in a lake in a temperate region as shown below, hence name the phenomenon. **(1mk)**

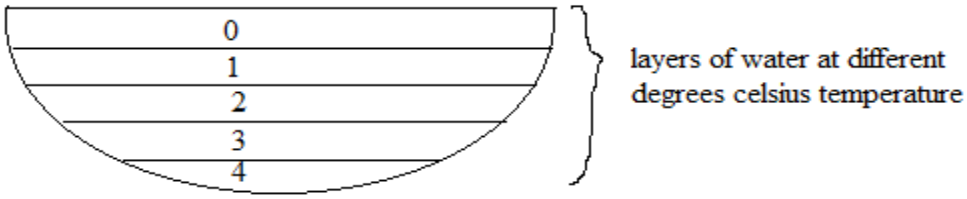


Figure 3

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(b) When a metallic ball is heated it doesn't pass through the ring as before when both were at room temperature. Explain**.** **(1mk)**

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7. Why is it wrong to quote the SI unit of weight as kilogram? **(1mk)**

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8. How much force must be applied on a blade of length 4 cm and thickness 0.1 mm to exert a pressure of 5×10^6 Pa? **(2mks)**

9. Highlight two differences between weight and mass**.** **(2mks)**

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10. State two factors that affect thermal conductivity of a material. **(2mks)**

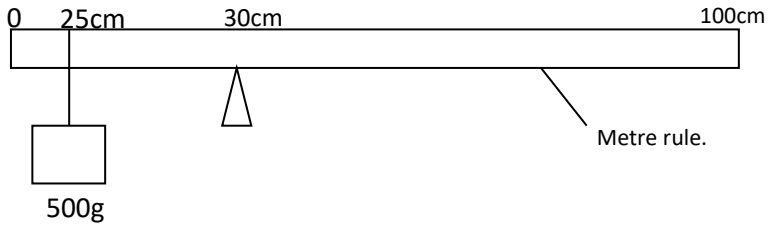
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11. A metre rule whose centre of gravity is at the 50 cm mark balances at the 30 cm mark when a mass of 500 g is placed at the 25 cm mark as shown in the figure below.



Determine the mass of the meter rule **(2mks)**

12. Why is it possible to add salt water without a substantial change in its volume? **(1mk)**

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13. State Coulomb's Law **(1mk)**

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14. A student stands in front of a plane mirror. Give two characteristics of his image on the mirror. **(2mks)**

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SECTION B (55 MARKS)

15.(a) Define moment of force. **(1mk)**

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(b) Explain why people have a preference for carjacks with long handles**.** **(2mks)**

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(c)A uniform bar of length 40 cm, 12 cm wide and 5 cm thick is made of a material of density 150 kgm^{-3}, determine

i) The weight of the bar**.** **(3mks)**

ii) If the bar is pivoted at the 10 cm mark along the length, calculate the force required at the zero cm mark to keep the bar in equilibrium (Take 0 cm mark to be to the left) **(3mks)**

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(d)Anti-parallel forces have many applications in life. Give two of such. **(2mks)**

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16 (a) What is a primary cell**?** **(1mk)**

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(b) Primary cells suffer two cell defects; polarization and local action. Explain how each is minimized. **(2mks)**

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(c)A current of 1.2 A is found to flow through a circuit in 2 minutes. Determine, how much charge in Coulombs flew? **(2mks)**

(d) A lead -acid accumulator is due for recharging under two conditions. Highlight the conditions. **(2mks)**

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(e) It is advisable to have domestic wiring for bulbs done in parallel and not series. State two reasons why series is not preferred**.** **(2mks)**

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(f) Sketch a diagram of a circuit with two cells in series connection, connecting wires and a bulb. **(2mks)**

17 (a) Describe an experiment that you can use to distinguish a magnet from a magnetic material given a string, complete stand, bar magnet with known poles, the magnet and a piece of iron . **(3mks)**

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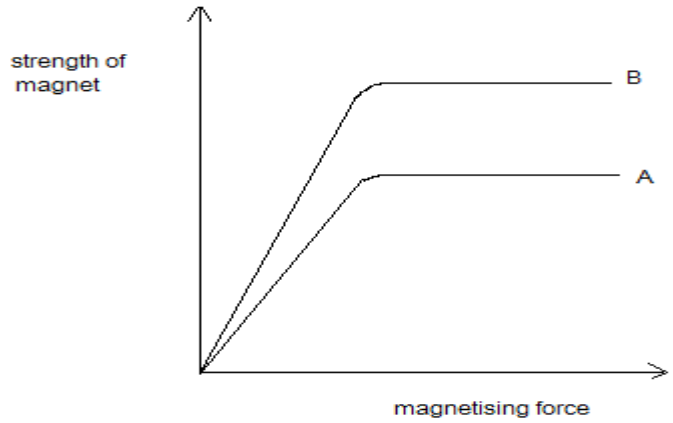
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(b)Use the diagram below to answer the questions that follow.



i) Which material is easier to magnetise. Explain **(2mks)**

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ii) Which material forms a stronger magnet. Explain **(2mks)**

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(c) Explain how shape of the core affects strength of an electromagnet. **(2mks)**

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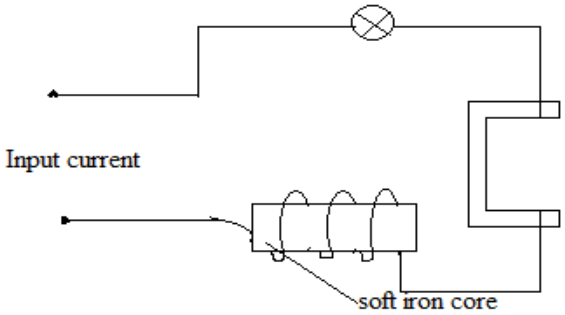
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(d) The circuit below shows a circuit breaker.



Explain briefly how it works. **(3mks)**

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18. The figure 5 below shows an image, I formed by an object placed in front of a convex mirror

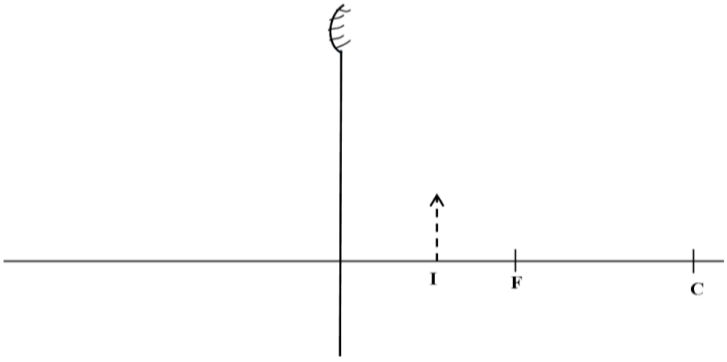


Figure 5

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(a) On the same diagram, draw appropriate rays and locate the object. **(3mks)**

(b) Explain why large convex mirrors are placed at certain points in supermarket **(2mks)**

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(c) An object 2.5 m tall is at a point 8m from a pinhole camera. If the distance of the screen is 8.16m from the object, calculate the size of the image **(3mks)**

(d) An oil drop of diameter 0.003 cm spreads on the surface of water with lycopodium powder to form a circular film of radius 0.5 m. Determine the size of an oil molecule. **(3mks)**

19.(a)Spray painting is preferred for use in painting cars. Explain **(2mks)**

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(b) It is safer to carry petrol in a metallic container than in a plastic one. **(2mks)**

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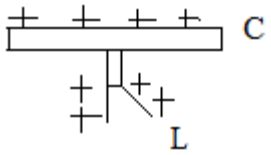
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(c)A gold –leaf electroscope is positively charged as shown below where C is the cap and L is the gold-leaf. State and explain what happens to L when a negatively charged rod is brought near C without touching. **(2mks)**



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(d) State two uses of an electroscope**.** **(2mks)**

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(e)Using a well labeled diagram, describe how to charge a pith ball on an insulating handle negatively using a charged rod**.** **(2mks)**

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