EXCELLING STUDENTS FORM 3 END TERM 3 SERIES 1 EXAMS *(ALL SUBJECTS TESTED)*



EXCELLING STUDENTS FORM THREE END TERM THREE SERIES ONE 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 THREE
END TERM 3 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

AGRICULTURE (443/1)
PAPER 1
FORM THREE (3)
TIME: 2 HOURS

Instructions:
-This paper has three sections A,B and C.
- Answer all questions in sections A and B.
-Answer any two questions in section C.

For Examiners use:

SECTION	QUESTIONS	MAXIMUM SCORE	STUDENTS SCORE
A	1-19	30	
B	20-23	20	
C	24	20	
	25	20	
	26	20	
TOTAL		90	

1. Name two situations under which irrigation is practiced **(1mk)**

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2. Give a reason why ranching is an improvised pastoral nomadism **(1mk)**

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3. State two ways by which a soil of PH 3 can be raised to a PH of 6 **(1mk)**

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4. Outline two effects of adding organic matter to sandy soil **(1mk)**

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5. State **two** causes of forking in carrots **(1mk)**

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6.. Give **two** disadvantages of hydram pumps (1mk)

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7. Give four conditions that necessitate clearing of land. **(2mks)**

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8. State four factors that determine the depth of planting **(2mks)**

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9. State four minimum tillage practices **(2mks)**

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10. State **two** methods of harvesting Maize **(2mks).**

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11. Give **four** farming practices that may help in achieving minimum tillage**.** **(2mks)**

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12. A farmer plants maize on his piece of land measuring 40m by 30m at a seed rate of I seed per hole. If he used a spacing of 75cm by 25cm, Calculate this plant population. **(3mks)**

13. State four reasons for conserving forage **(2mks)**

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14. Give four benefits of a land title deed **(2mks)**

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15. State four steps of gully formation **(2mks)**

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16. State two characteristics of a good root stock for grafting **(1mk)**

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17. State two main causes of silage loses **(1mk)**

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18. State four aims of land settlement programmes in Kenya **(2mks)**

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19. Give two factors that influence the stage at which crop is harvested **(1mk)**

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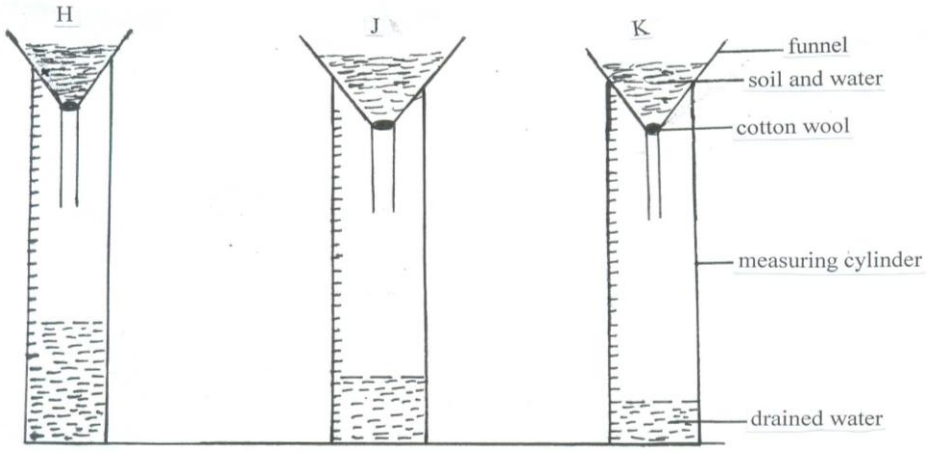
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SECTION B (20MARKS)

20. The illustrations below represent an experiment to compare the porosity and water holding capacity of three types of soils. Carefully study the experiment and then answer the questions that follow



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(a) Identify the soil in each of the funnels labeled **(3mks)**

H ……..

J……

K……..

(b) Which of the three types of soil can be said to have the highest porosity rate? **(½ mk)**

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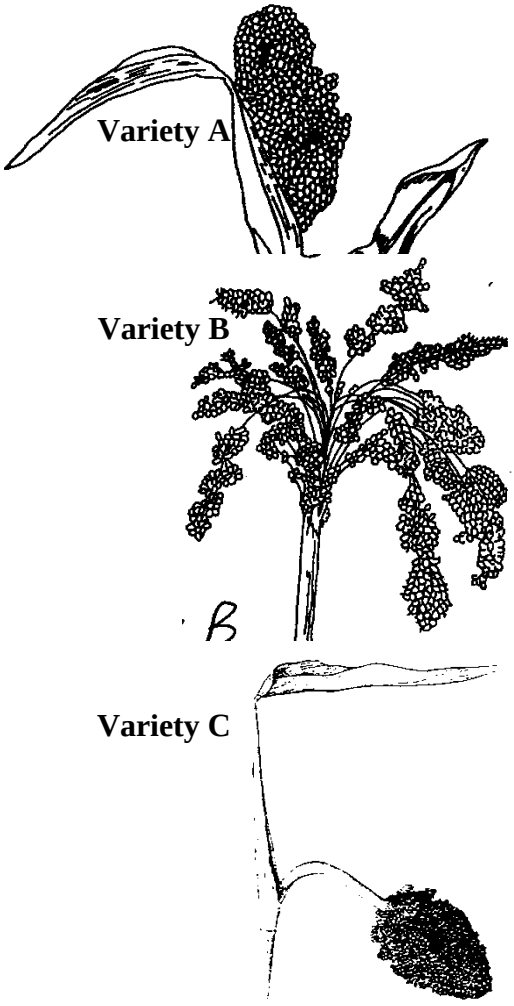
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(c) Which type of soil would be suitable for planting paddy rice? **(½mk)**

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21. The diagrams below represent some panicles of varieties of Sorghum crop growing in the field. Study them carefully and answer the questions that follow.



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a) Identify the types of panicles in each of the varieties represented by A,B and C

Variety **A** ……. **(1mk)**

Variety **B** …….. **(1mk)**

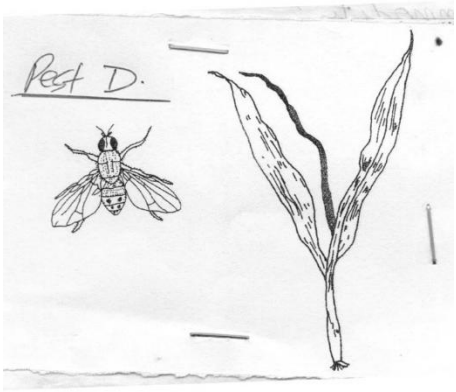
Variety **C** …… **(1mk)**

b) Which of the varieties named in (a) above is less easily damaged by bird pests **(1mk)**

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c) The diagram below represents a pest labeled D that infests Sorghum plants during early stages of establishment



i) Identify the pest **(1mk)**

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ii) State two methods of controlling the pest named in C(i) above **(2mks)**

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22. Study diagram below and answer questions that follow.



(i) Name the farming practice illustrated above. **(1mk)**

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(ii) Give the procedure followed to carry out the practice you have named in (i) above **(3mks)**

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(iii) State the importance of carrying out the farming practice named above. **(1mk)**

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23. The diagram below shows common weeds, study them and answer the questions that follow.



a) Identify the weeds J and K. **(2mks)**

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b) State the effects of weed labeled J to livestock. **(1mk)**

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c) Give **one** reason why it is difficult to control the weed labeled L? **(1mk)**

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SECTION C (40 MARKS)

Answer *only two* questions in this section in the spaces provided.

24.(a) Describe the production of onions under the following sub headings

I.Ecological requirements **(3mks)**

II. Planting **(5mks)**

III. Field practices **(2mks)**

IV. Harvesting and marketing **(5mks)**

b) State **five** safety measures that a farmer must consider to prevent danger to other people and environment when using pesticides. **(5mks)**

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25a. Outline five uses of farm records **(5mks)**

b. Outline the harvesting of coffee under following subheadings

i) Stage of harvesting **(2mks)**

ii) Procedure of harvesting **(5mks)**

iii) Precautions when harvesting **(3mks)**

c. State **five** precautions taken when harvesting pyrethrum **(5mks)**

26a. Describe any **five** cultural methods of controlling weeds. **(5mks)**

b. Describe **eight** advantages of land consolidation and registration**.** **(8mks)**

c. Explain **seven** objectives of land reform under taken in Kenya**.** **(7mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

AGRICULTURE (443/2)
PAPER 2
FORM THREE (3)
TIME: 2 HOURS

INSTRUCTIONS TO THE CANDIDATES

1.Write your name, admission number and class in the spaces provided
2.Answer all questions in the spaces provided
3.Answer all questions in section A and B and two questions in section C
4.The exam carries 90 marks

FOR EXAMINERS USE ONLY

SECTION	QUESTION	MAXIMUM SCORE	CANDIDATES SCORE
A	1 – 16	30 MARKS	
B	17– 20	20 MARKS	
C	21	20 MARKS	
	22	20 MARKS	
	23	20 MARKS	
TOTAL		90 MARKS	

SECTION A (30 MARKS)

1.Give two benefits of providing enough nutrients to livestock for proper health. **(1mk)**

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2.Give two harmful effects of ticks in sheep. **(2mks)**

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3.State four roles of worker bees in a colony. **(2mks)**

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4. State the role of the crop in digestive system of a hen. **(2mks)**

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5. State <u>four</u> reasons for castration in pig production. **(2mks)**

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6. State <u>two</u> benefits of guard rails to piglets in a farrowing pen? **(1mk)**

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7. State the role of a foot bath in a cattle Dip. **(1mk)**

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8. Distinguish between the following practices as used in livestock production.

(a). Crutching and ringing in sheep production. **(2mks)**

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(b). Cropping and harvesting in fish farming. **(2mks)**

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9. Give **four** disadvantages of inbreeding. **(2mks)**

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10. Give **four** factors that a farmer may consider while carrying out culling in livestock production. **(2mks)**

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11. State **four** predisposing factors of pneumonia in lambs **(2mks)**

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12. Name **four** tools used in dehorning. **(2mks)**

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13. Give **two** ways in which infectious diseases can spread from one livestock to another within a farm. **(1mks)**

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14. State **four** reasons for castration in pig production. **(2mks)**

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15. State **four** characteristics of roughage livestock feeds. **(2mks)**

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16. State **four** roles of worker bees in a colony. **(2mks)**

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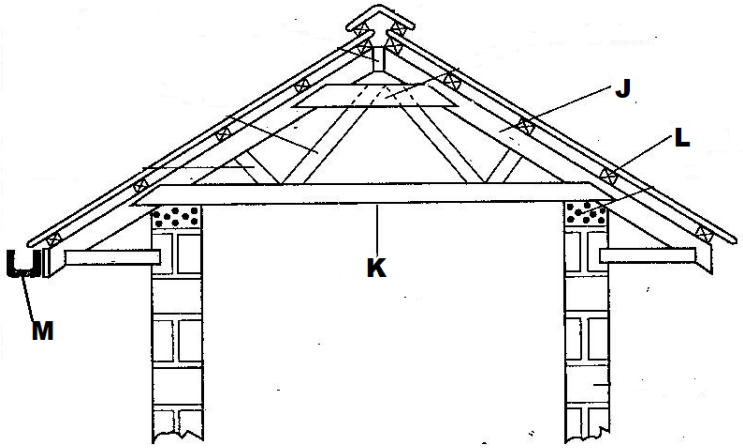
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SECTION B (20MARKS)

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



(a). Identify the parts labeled **(2mks)**

J ……

K ……

L ……

M ……

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(b) State **two** uses of the part labelled L. **(2mk)**

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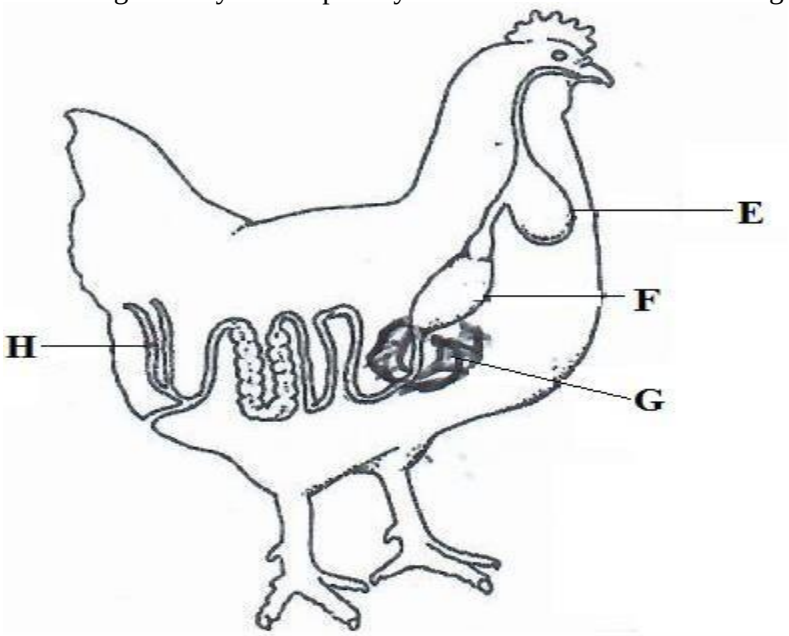
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(c) State **one** reason why it is important to have the structure labelled M at the edge of the roofing materials. **(1mk)**

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18. The diagram below shows the digestive system in poultry. Use it to answer the following questions.



(a) Name the parts labelled **E** and **H.** **(2mks)**

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(b) Give the function of part **F**. **(1mk)**

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(c) State **two** ways in which the part labelled **G** is adapted to its function**.** **(2mks)**

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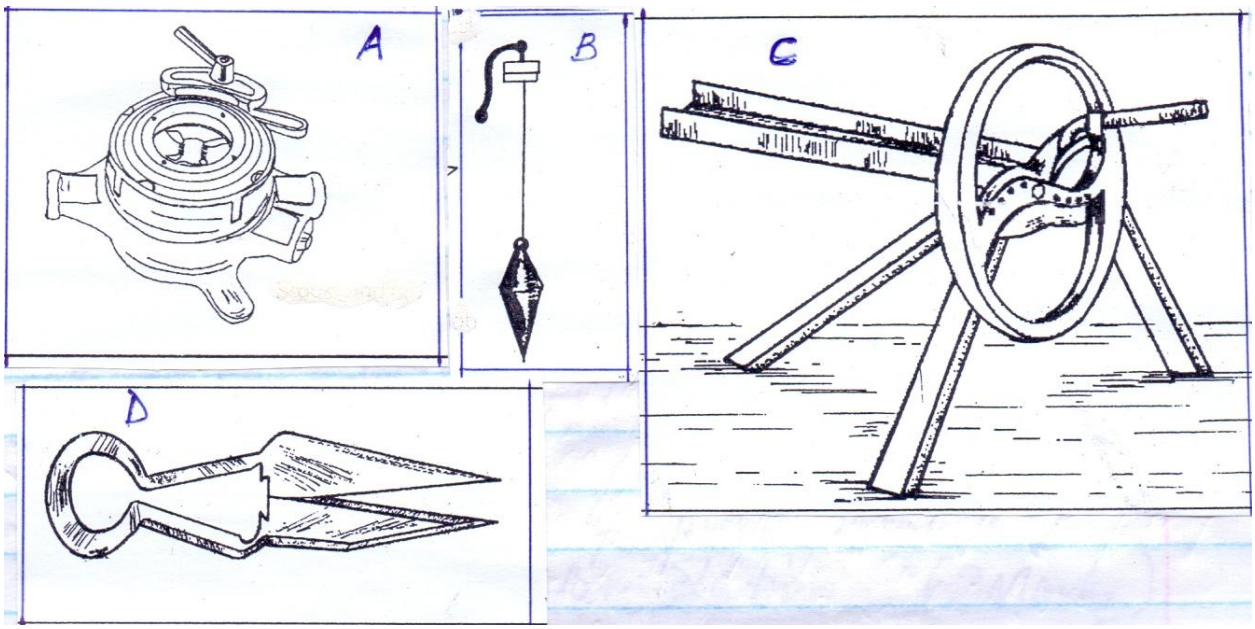
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19. The diagrams below represent some farm tools and equipment .Study them and answer the questions that follow.



[a] Identify the tools labeled A and B **(2mks)**

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[b] State one use of each of the tools labeled C and D **(2 mks)**

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[c] Explain one maintenance practice carried out on tool D . **(1mk)**

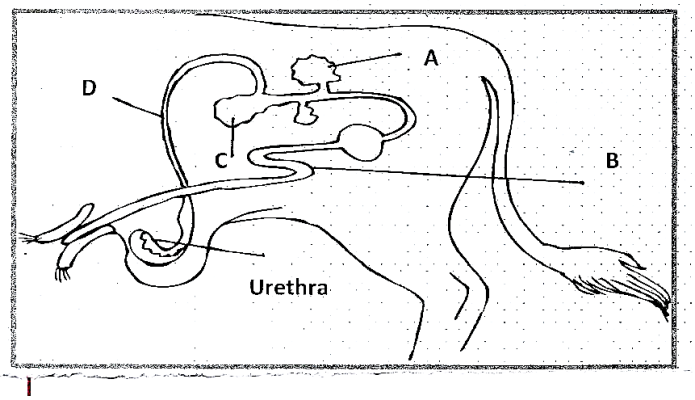
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20. Study the illustration below and use it to answer the questions below



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a) Label the parts A,B,C and D **(2mks)**

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b) Give the functions of parts B and C **(2mks)**

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c) Give the name of the part in the animal affected when the animal is attached by brucellosis **(1mk)**

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SECTION C (40 MARKS)
ANSWER ANY 2 QUESTIONS IN THIS SECTION

21. a) Describe brucellosis under the following subheadings:

i) Causal organism **(1mk)**

ii) Transmission **(1mk)**

iii) Symptoms **(4mks)**

iv) Control measures **(4mks)**

b) State the function of any five parts of a zero grazing unit in dairy farming. **(5mks)**

c) Explain **five** factors that should be considered when choosing tools and equipment to use in the farm. **(5mks)**

22. (a) State **five** functions of water in the body of an animal. **(5mks)**

(b) Discuss **five** factors that affect digestibility of feed in livestock. **(10mks)**

(c) Give **five** reasons for keeping livestock healthy. **(5mks)**

23. (a) State **ten** general characteristics of beef cattle. **(10mks)**

(b) Discuss **five** factors that determine the amount of maintenance ration and animal should be given. **(10mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

BIOLOGY(231/1)

FORM THREE (3)

Time: 2 *Hours*

INSTRUCTIONS

1.All Questions are Compulsory

2.Write your Answers in the Spaces Provided

3.Wrong Spelling of Technical Terms shall be Penalized

Max Score	Student's Score
80	

1.Define the term guttation (1mk)

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2.a) Name the muscle that regulates entry of food bolus into the stomach **(1mk)**

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b) How is parotid gland important in starch digestion? **(2mks)**

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3.a) Why are proteins said to be amphoteric? **(1mk)**

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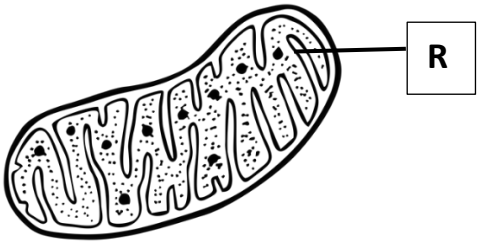
b) Under which condition does the body resort to using protein as a respiratory substrate? **(1mk)**

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4. Use the diagram shown below to answer the question that follows



a) Name the organelle shown above **(1mk)**

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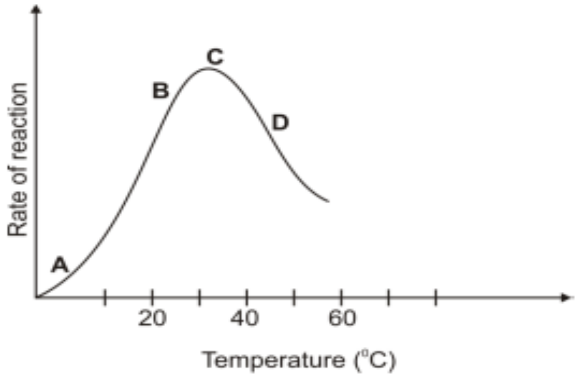
b) Name structure **R** and give its importance to the functioning of the organelle shown? **(1mks)**

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5. The illustration shown below is a graph of enzymatic reaction



a) Account for the rate of reaction shown at **D** **(2mks)**

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b) Why is the rate of reaction maximum at **C**? **(1mk)**

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6.a) Name an enzyme and co-enzyme important in blood clotting **(2mks)**

i) Enzyme ……

ii) Co-enzyme ……..

b) How is blood clotting important in defense of the body? **(1mk)**

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7.a) Why are members of Kingdom Monera referred to as Prokaryotes? **(1mk)**

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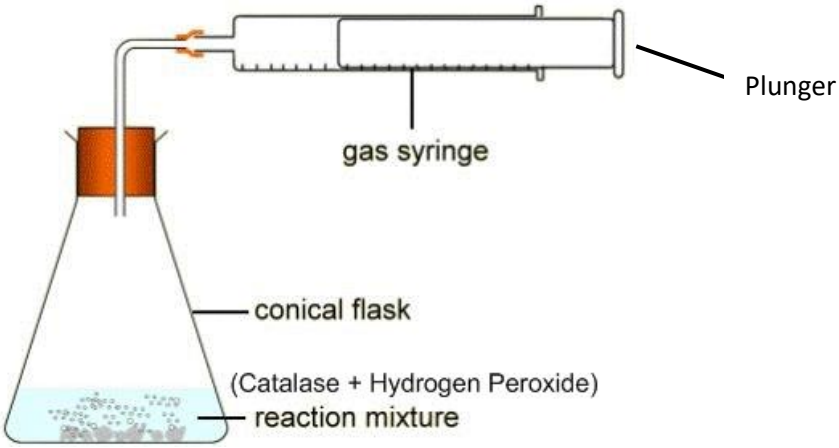
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b) Distinguish Class Insecta and Arachnida in terms of the following features **(3mks)**

Feature	Insecta	Arachnida
Antennae		
Number of legs		
Cephalothorax		

8.Form 3 students in Garisa High school used the set up below to investigate a physiological process



a) Account for the observation made on movement of the plunger after 5 minutes **(2mks)**

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b) State the importance of the physiological process investigated to human body? **(1mk)**

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9. State the importance of the absence of the following organelles in the erythrocytes

i) Nucleus **(1mk)**

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ii) Mitochondria **(1mk)**

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10. Even after Susan had placed a few living fish, crabs and some worms in an aquarium filled with water, his teacher of Biology told him that the aquarium did not qualify to be referred as an ecosystem. Give **TWO** reasons why the teacher made that observation. **(2mks)**

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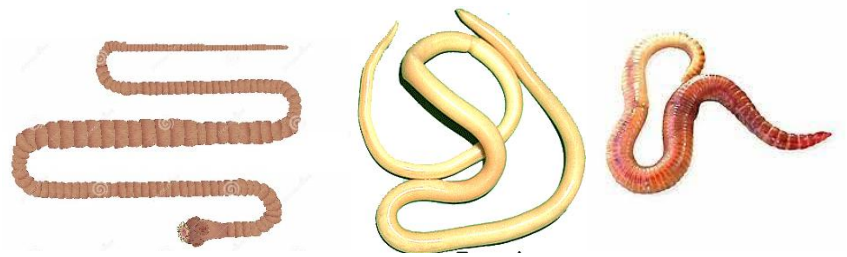
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11. The following are common worms encountered by learners in their ecology lesson. Construct a 2-step dichotomus key using the following features **(4mks)**

(i) Body Segmentation

(ii) Suckers



Tapeworm Roundworm Earthworm

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12. Describe double fertilization in flowering plants **(4mks)**

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13. Use the diagram shown below to answer questions that follow



a) Give **TWO** reasons why the jaw shown above is of a carnivorous animal **(2mks)**

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b) Use **X** to label the tooth used in seizing prey on the diagram above **(1mk)**

14. A photograph of a common animal is shown below



a) Give the name of the Class to which the animal shown above belongs **(1mk)**

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b) Give **TWO** reasons for your answer in a) above **(2mks)**

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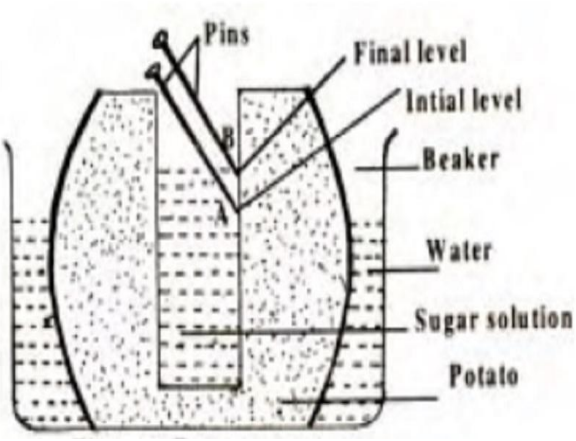
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15. The diagram shows the position of the pin after an experiment



a) Which physiological process was being investigated **(1mk)**

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b) Account for the observation made in the experimental set up above **(3mks)**

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16. The table below shows the nitrogenous wastes released by various animals

Animal	Nitrogenous Waste
Human Beings	Urea
Desert Rat	Uric acid
Freshwater Fish	Ammonia

a) What is the advantage of a desert rat excreting its nitrogenous waste as uric acid? **(1mk)**

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b) Explain why freshwater fish excretes its nitrogenous waste as Ammonia **(2mks)**

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17. a) Name the tissue in the pancreas that forms insulin **(1mk)**

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b) Describe how glucagon hormone helps regulate blood sugar **(2mks)**

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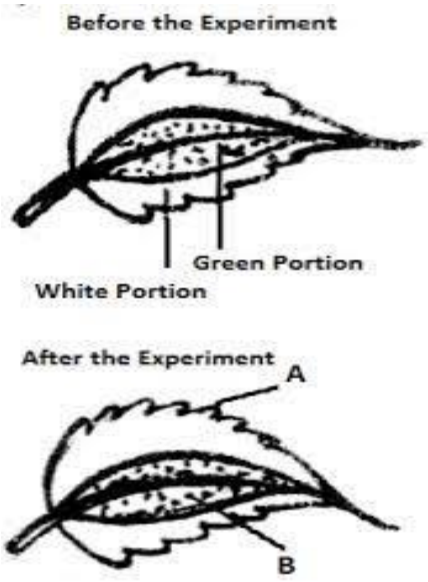
18. a) Samson observed 9 cells along the diameter of field view of microscope that had a radius of 1.5mm. Determine the diameter of one cell in micrometers **(3mks)**

b) Why is fine adjustment knob used when the high power objective lens is in position? **(1mk)**

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19. The diagram shown below shows a leaf that was used to study photosynthesis. After the experiment, drops of Iodine solution were placed on the processed leaf



a) Which food substance was being tested for? **(1mk)**

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b) Fill in the table below to show the colours observed in the following regions **(2mks)**

Region	Colour
A	
B	

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c) Account for observation made on part of the leaf labelled **A** **(2mks)**

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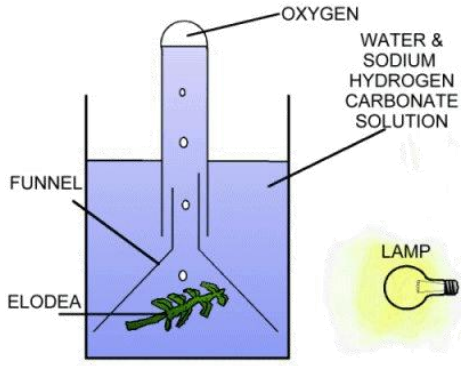
20. State the economic importance of the following metabolic wastes from plants **(3mks)**

i) Papain ……

ii) Colchicine ……

iii) Tannin ……

21. The experiment set up shown below was used to investigate a physiological process



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

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b) Why was Sodium Hydrogen Carbonate added in the water **(2mks)**

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c) How can one confirm that the gas released in the experiment is Oxygen **(1mk)**

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22. Give **TWO** advantages of using glucose as a respiratory substrate **(2mks)**

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23. Account for the following observations about human reproductive system **(2mks)**

a) The male releases millions of spermatozoa in one ejaculation during copulation

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b) The semen is alkaline

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24. a) Why is blood group **AB** said to be a universal recipient? **(2mks)**

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b) State **TWO** precautions observed before blood transfusion **(2mks)**

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25. State the role of the following during seed germination

a) Water **(1mk)**

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b) Oxygen **(2mks)**

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……

26. Give the differences between insect-pollinated and wind-pollinated flowers in terms of the following features **(3mks)**

Feature	Insect pollinated	Wind-pollinated
Size of pollen grain		
Length of Filament		
Size of petals		

END

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EXCELLING STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

BIOLOGY (231/2)

FORM THREE (3)

Time: 2 *Hours*

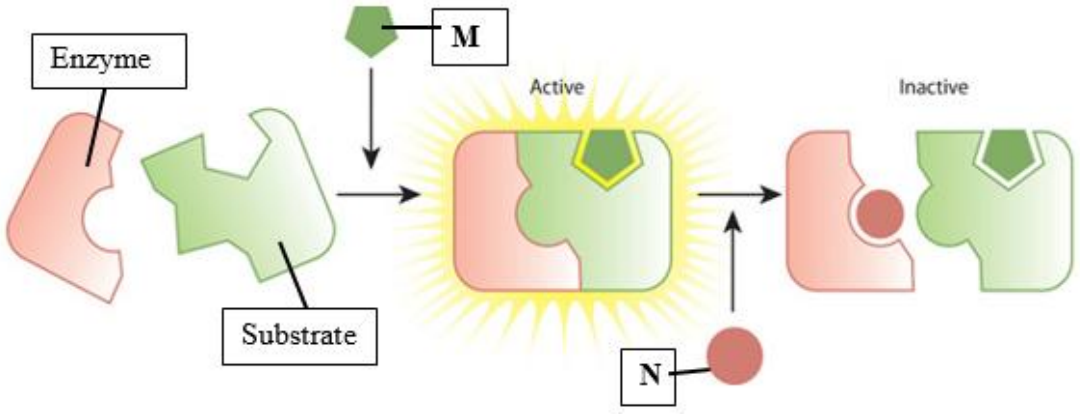
INSTRUCTIONS

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
A	1	8	
	2	8	
	3	8	
	4	8	
	5	8	
B	6	20	
	7 or 8	20	
TOTAL SCORE		**80**	

SECTION A (40 MARKS)

1. The diagram shown below is an illustration of enzyme-substrate interaction



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a) Identify the following in the reaction above **(2mks)**

i) M ……..

ii) N ……..

b) What is the effect of removal of element **N** in the reaction above? **(1mk)**

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c) i) Why are enzymes denatured by high temperatures? **(1mk)**

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ii) Provide **TWO** properties of enzymes **(2mks)**

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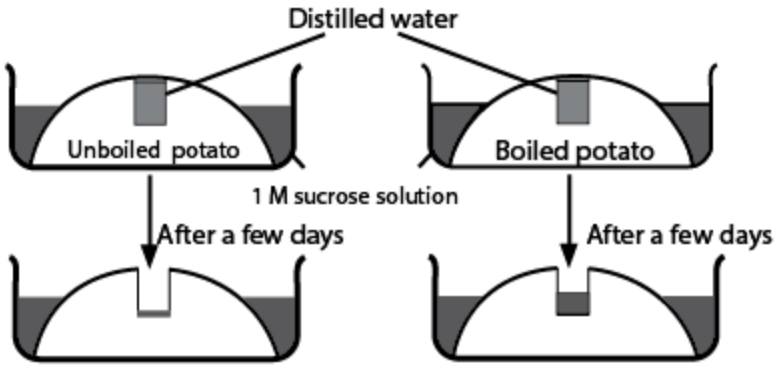
……

d) If the reaction shown above is blood clotting process and the substrate is prothrombin. Give the correct identity of the following: **(2mks)**

i) Enzyme …..……..

ii) M …….

2.The following diagram shows a set up before and the results after the experiment.



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

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b) Account for the observation made in the unboiled potato **(2mks)**

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c) State **TWO** importance of the physiological process investigated to a human cell **(2mks)**

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d) Which property of the cell membrane of cells is revealed by the results shown by:

i) Boiled potato **(1mk)**

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ii) Unboiled potato **(1mk)**

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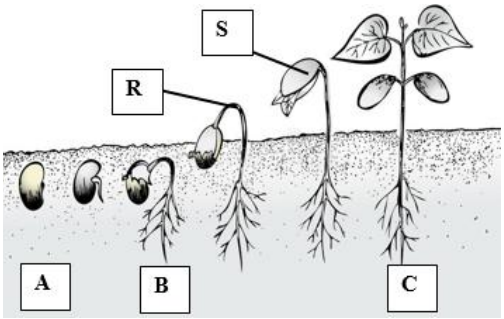
e)How is active transport different from the physiological process investigated above? **(1mk)**

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3.The following is an illustration of germination process of a seed



a) Identify the type of germination represented above **(1mk)**

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b) Give **TWO** reasons for your answer in a) above **(2mks)**

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c) Account for the expected change in dry weight of the cotyledon at stages **A** and **B** **(2mks)**

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d) Explain the significance of part **R** being curved **(1mk)**

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e)Explain why stage **C** has the highest dry weight compared to the other stages **(2mks)**

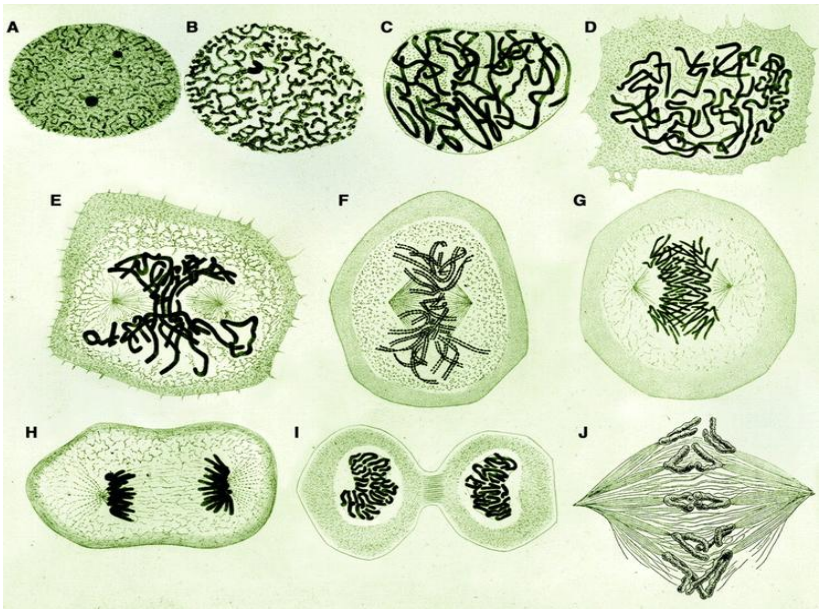
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4.The following is an illustration of various stages of cell division in a cell



a) Give a reason to show that the process illustrated above is:

i) Mitosis **(1mk)**

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……

ii) Taking place in an animal. **(1mk)**

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b) With a reason identify the stage labelled **F**: **(2mks)**

Stage……

Reason ……

c)What is the significance of the stage labelled **H** in cell division process **(1mk)**

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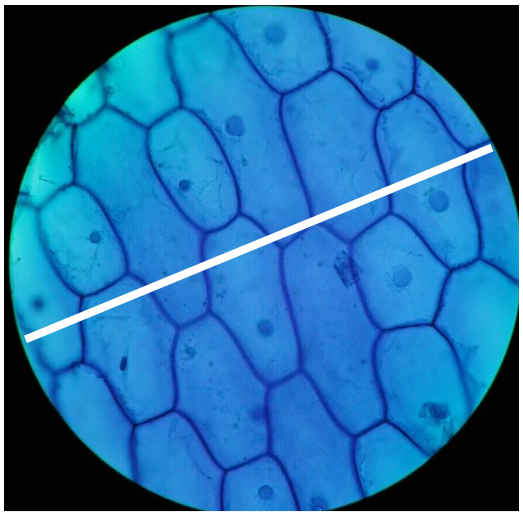
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d) State the differences between meiosis and mitosis in terms of the following **(3mks)**

Feature	Meiosis	Mitosis
Number of Daughter Cells		
Crossing over		
Nucleus of Daughter cells		

5.The following diagram shows onion cells as observed in a field of view of a light microscope



a) Determine the following along the white line that run across the field of view: **(2mks)**

i) Number of cells ……..

ii) Diameter of field of view …….. **mm**

b) i) From the information generated in a) above determine the diameter of one cell in micrometers **(3mks)**

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ii) If the field of view has a total magnification of **X1500**. Determine the actual diameter of one cell **(2mks)**

iii) Give **ONE** weakness of this method of calculating size of a cell **(1mk)**

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SECTION B (40 MARKS)

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

6. The table shown below is the result of an experiment on the effect of temperature on the rate of photosynthesis of different batches of plants of same species by measuring the volume of Oxygen gas released at different temperatures

Batch	Temperature (^{0}C)	Volume of Oxygen (cm^3)
1	10	18
2	15	21
3	20	25
4	25	35
5	30	48
6	35	48
7	40	38
8	45	20
9	50	5
10	55	0

a) On the graph provided, draw a graph of volume of Oxygen produced against temperature **(6mks)**

b) Account for the shape of the graph at temperature of:

i) 10-20^{o}C **(3mks)**

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ii) 40-50 ^{o}C **(3mks)**

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c) i) Determine the following from the graph

i) Optimum temperature for the process of photosynthesis in the plant studied **(1mk)**

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ii) Volume of Oxygen produced at 23 ^{o}C **(1mk)**

d) Write a word equation to represent photosynthesis process **(1mk)**

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e) Apart from temperature, give **THREE** factors that increase rate of photosynthesis **(3mks)**

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f) Explain how optimum temperature during photosynthesis increases biodiversity in an ecosystem **(2mks)**

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7.a) Outline various ways of controlling air pollution **(4mks)**

b) Describe adaptations of the mammalian heart to its functions **(16mks)**

8.a) Explain the effect of increased physical body activity on the following organs: **(13mks)**

i) Heart

ii) Kidneys

b) Outline structural differences that exist between members of Class Dicotyledonae and Class Monocotyledonae **(7mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

BIOLOGY (231/3)

FORM THREE (3)

Time: $1\frac{3}{4}$ *Hours*

INSTRUCTIONS TO CANDIDATES:

(a) Write your **name, admission number** and **school** in the spaces provided above.
(b) **Sign** and write the **date** of examination in the spaces provided above.
(c) Answer all the questions in the spaces provided.
(d) You are required to spend the first **15** minutes of the **1¾** hours allowed for
(e) this paper reading the whole paper carefully before commencing your work.
(f) This paper has **three** questions.
(g) Students should check the question paper to ascertain that all the papers are printed as indicated and that no questions are missing.
(h) Candidates should answer the questions in English.

FOR EXAMINER'S USE ONLY:

Question	Maximum Score	Candidate's Score
1	14	
2	14	
3	12	
Total Score	40	

1. You are provided with specimen T.

a) Cut a 1 cm slice from the specimen and remove its peel. Place the soft inner part into a boiling tube labelled A. Cut another 1 cm slice from the specimen and remove its peel. Using a pestle mash the soft inner part into a paste. Place the paste into a boiling tube labelled B.

Add 4 cm^3 of dilute hydrogen peroxide solution into each of the boiling tubes A and B.

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i) Record your observations **(2mks)**

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ii) Account for the results in 1. a) i) above **(2mks)**

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iii) Write an equation for the breakdown of hydrogen peroxide **(1mk)**

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b) Cut a 2 cm slice from specimen T and remove its peel. Place the soft inner part in a mortar, and using a pestle mash it into a fine paste. Add a little of distilled water and stir the mixture. Pour the mixture into a beaker and allow it to stand for 2 minutes. Using the reagents provided, test for the food substances in the mixture. Record procedure, observation and conclusion in the table below **(9mks)**

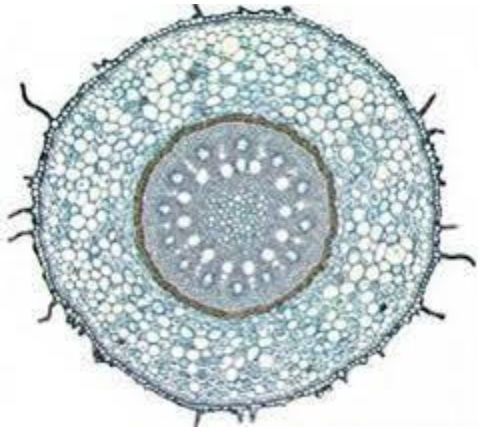
Food substance being tested	Procedure	Observation	Conclusion
Starch			

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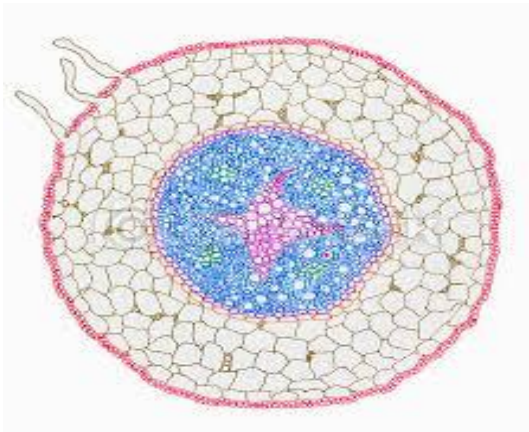
Vitamin C			
Reducing Sugar			

2. The following photomicrographs K and L illustrate cross sections of an organ as found in different plants. Use the photomicrographs to answer the questions below.

K



L



(a) Name the organ from which the above cross- sections have been obtained giving a reason for your answer.
(2mks)

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(b) Label the following parts on the photomicrograph K**;** **(3mks)**

Xylem

Phloem

Endodermis

(c) State the differences between cross section K and cross section L**.** **(2mks)**

cross section K	cross section L

(d) Identify any two differences between xylem and phloem. **(2mks)**

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(e) State two adaptations of xylem to their function. **(2mks)**

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(f) Name a tissue present in photomicrograph K that is absent in photomicrograph L. **(1mk)**

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(g) Give the function of each of the following tissues; **(2mks)**

Cortex ……

Endodermis ……

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3. Below are photographs labelled **L_1, L_2, L_3, L_4** and **L_5** of twigs obtained from plants. Examine them.

L_1



L_2



L_3



L_4



L_5



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a) Using observable features in the photographs, complete the dichotomous key given below **(2mks)**

i. a) Leaves compound …… go to 2

b) _____ …….. go to 3

ii. a) Leaf bipinnate …… Mimosaceae

b) Leaf trifoliate …… Oxalidaceae

iii. a) Leaf with network venation …… go to 4

b) _____ …….. go to 5

iv. a) Leaf with entire margin ……..Nyctaginaceae

b) Leaf with serrated margin ……Verbenaceae

v. a) Leaf with solid petiole …… Agavaceae

b) Leaf with sheath like petiole ……Graminae

b) Use the completed dichotomous key to identify the family to which each plant belongs. In each case show the steps you followed to arrive at the identity **(10mks)**

Specimen	Steps	Identity
L1		
L2		
L3		
L4		
L5		

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EXCELLING STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

BUSINESS STUDIES (565/1)

FORM THREE (3)

Time: 2 *Hours*

ANSWER ALL QUESTIONS IN THIS PAPER

1. State the level of production that each of the following activities belong **(4mks)**

Activity	**Production level**
(a) Harvesting sand	……..
(b) Marking exams	……..
(c) Welding work	……..
(d) Oil Retailing	……..

2. State **four** circumstances under which a firm may be located near a raw material source **(4mks)**

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3. For each of the following transactions. State the account to be debited and the account to be credited **(4mks)**

Transaction	A/c to be debited	A/c to be credited
(i) Cash deposited in business Bank account		
(ii) Owner withdrew cash for personal use		
(iii) Purchase of goods on credit		
(iv) Purchase of furniture by cheque		

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4. Outline **four** drawbacks that accrue to a society that practice subsistence production **(4mks)**

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5. Give **four** benefits that are likely to result from the new standard Gauge Railway line in Kenya **(4mks)**

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6. State **four** measures that a trader should take to ensure smooth functioning of his private warehouse **(4mks)**

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7. Describe **four** channels that can be used to distribute coffee from Kenya to a consumer in USA **(4mks)**

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8. Highlight **four** barriers associated with written communication **(4mks)**

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9. Give **four** reasons why a firm may not realize any benefits from free publicity **(4mks)**

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10. Outline four disciplines incorporated in the business studies course **(4mks)**

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11. List four types of partners in a partnership formed by professionals **(4mks)**

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12. Highlight four factors that may cause a shift in supply curve to the left **(4mks)**

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13. State four consequences of poor arrangement of goods in a warehouse **(4mks)**

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14. Complete the following table by filling in the blank spaces **(4mks)**

PROFIT	DRAWINGS	INITIAL CAPITAL	ENDING CAPITAL
	5,000	200,000	250,000
40,000		350,000	380,000
50,000	15,000		400,000
60,000	10,000	500,000	

15. Outline four circumstances under which a commodity may be distributed directly to the consumers **(4mks)**

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16. State four challenges that a country with a young population experience. **(4mks)**

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17. A car and a garage was insured for shs. 1,500,000 instead of shs. 2,000,000. Later the property was destroyed and a loss of shs. 1,000,000 was suffered. Determine the amount of claim, giving a reason for your answer. **(4mks)**

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18. Classify the following staff as under: Senior, Junior, or Subordinate **(4mks)**

	STAFF	CATEGORY
a)	Clerk	_____
b)	Accountant	_____
c)	Personal Secretary	_____
d)	Messenger	_____

19. Outline four roles of Kenya Bureau of standards in Consumer protection **(4mks)**

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20. Highlight **four** features of oligopoly market structures. **(4mks)**

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21. The following features relate to warehousing. Indicate the most suitable type of warehousing described. **(4mks)**

i) Mostly situated entry points and are available at a fee **.....**

ii) Warehouse designed to suit ones particular needs **.....**

iii) Used to store locally produced goods until excise duty is paid. **.....**

iv) Warehouse used to store non dutiable goods originating from within or outside the Country

…….....

22. State whether each of the following transactions will increase, decrease or have no effect on the business capital. **(4mks)**

	Transaction	Effect on capital
i)	Bought stock on credit	_____
ii)	Owner withdrew some goods for personal use	_____
iii)	Business made profit during the year	_____
iv)	Paid wages by cheque	_____

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23. State four factors that determine the size of a country's national income. **(4mks)**

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24. The information given below was extracted from books of accounts of Vijana Traders as at 30th June 2021.

	Sh.
Land and building	450,000
Motor vehicles	640,000
Debtors	30,000
Creditors	80,000
Bank over drafts	400,000
Net profit	104,000
Drawings	104,000

Using the information above, prepare Tenda Traders Balance Sheet as at 30th June 2021. **(4mks)**

25. Outline four limitations of consumers association. **(4mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

BUSINESS STUDIES (565/2)
FORM THREE (3)
Time: $2\frac{1}{2}$

1. (a) Explain **five** advantages that may be associated with operating a tied shop. **(10Mks)**

(b) Explain **five** challenges of a young population. **(10Mks)**

2.(a) Explain five factors that may have led to the increasing use of *boda boda* as a meansof passenger transport in Kenya **(10Mks)**

(b) With the aid of a diagram, explain the effects of an increase in supply to the equilibrium price and quantity. **(10mks)**

3.(a) Explain five benefits of entrepreneurship to the Kenyan economy **(10Mks)**

(b) On 1st March, 2021, Faulu Traders had sh. 18,000 in cash and a bank overdraft of sh. 6,700. During the month, the following transactions took place:

March 2:	Made cash sales sh. 14,500
3:	Kimani, a debtor settled his account of sh. 45,000 by cheque less 5% cash discount
4:	Paid salaries sh. 5,000 by cash
6:	Sold goods worth sh. 3,000 to Mumo on credit
8:	Settled Rehema's account of sh. 6,000 by cheque less 3% cash discount
12:	Bought goods worth sh. 4,000 on credit from Otieno
18:	Received a cheque of sh. 8,460 from Achieng after deducting 10% cash discount
22:	Withdrew sh. 9,500 from the bank for office use
24:	Cash sales paid direct into bank sh. 3,400
28:	Withdrew sh. 2,500 from the bank for family use
31:	Banked all the money except sh. 3,600

Required: Prepare a duly balanced three column cash book **(10mks)**

4.(a) Explain five reasons that may make an insurance company refuse to compensate the insured in the event that a risk occurs. **(10Mks)**

(b) Explain five circumstances under which a manufacturer would sell his goods directly to a consumer. **(10Mks)**

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5.(a) Explain five factors which constitute the external business environment which may negatively affect the operations of a business **(10Mks)**

(b) Explain five differences between a private limited company and a public corporation **(10Mks)**

6.(a) Explain 5 advantages of written communication **(10Mks)**

(b) The following balances were extracted from the books of Onyonka Traders on 1st January 2021.

	Ksh
Capital	600,000
Creditors	180,000
Motor van	200,000
Furniture	200,000
Stock	60,000
Debtors	80,000
Cash	240,000

The following transactions took place during the year ended 31st December 2021:
Sold furniture worth Ksh 60,000 for which Ksh 20,000 cash was received and the balance was due at the end of the year.

Brought 35,000 cash from private sources into the business
Purchased goods worth Ksh 200,000 for which cash of Ksh 40,000 was paid and the balance was still outstanding at the end of the year.

Cash Ksh 10,000 was taken from the business by the proprietor to buy a present for the daughter

Required:
Outline the effect of each transaction on the items of the balance sheet **(10mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

CHEMISTRY

PAPER 1 (233/1)

FORM THREE (3)

Time: 2 Hours

Instructions to candidates

(a) Write your name, admission number, index number, and stream in the spaces provided above.

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

(c) Answer **ALL** the questions in the spaces provided.

(d) Candidates **MUST** answer all questions in English.

(e) KNEC mathematical tables and silent non-programmable electronic calculators may be used.

(f) Candidates should **check** the question paper to ascertain that **ALL** the pages are printed as indicated and that **NO QUESTIONS ARE MISSING**

FOR EXAMINER'S USE ONLY.

QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
1 – 26	80	

1.The table below shows the number of valence electrons in atoms of elements **W, X,** and **Y**.

Element	W	X	Y
No. of valence electrons	1	5	2

a) Elements **W** and **Y** cannot combine to form a compound. Explain **(1mk)**

……

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b) The carbonate of **W** was heated in a test tube, using a Bunsen burner flame. State and explain the observations made. **(2mks)**

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2.One mole of ethyne reacted with one mole of hydrogen chloride gas:

a) Draw the structure and give the name of the compound formed **(2mks)**

b) Excess hydrogen was bubbled through the product in the presence of nickel catalyst. Three drops of acidified potassium manganate (VII) were then added to the product of reaction. State the observation made when this oxidising agent was added. **(1mk)**

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3.A certain carbonate has the formula **WCO_3**. If 1g of the carbonate reacts completely with $20cm^3$ of 1M hydrochloric acid, calculate the relative atomic mass of **W** **(3mks)**

(O =16, C = 12)

4.Starting with aqueous magnesium sulphate, describe how you would obtain a sample of magnesium oxide. **(3mks)**

5.Under certain conditions, ethanol and butanoic acid react to form a compound with a pleasant smell.

a) State the conditions necessary for the reaction to occur (1 mark)

……

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b) Name the process that forms the pleasant-smelling compound (1 mark)

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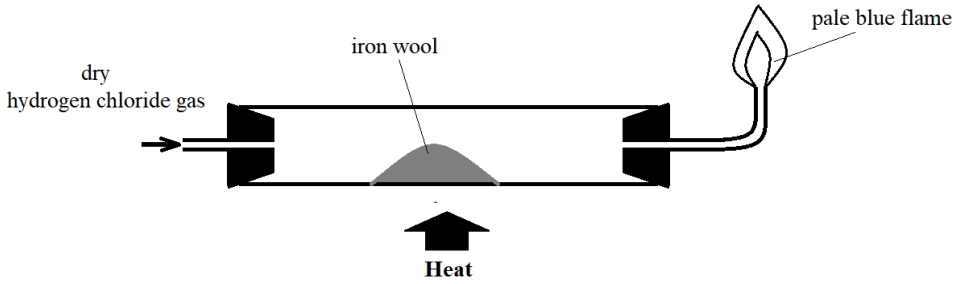
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c) Name the compound formed in the reaction above. (1 mark)

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……

6.Iron wool was heated in the presence of hydrogen chloride gas as shown in the diagram below



a) State the observation that was made in the combustion tube **(1mk)**

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……

b) The flame at the nozzle burns quietly. Explain this observation **(1mk)**

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c) Write an equation for the formation of the flame at the nozzle **(1mk)**

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7.

a) At room temperature and pressure hydrogen fluoride is a volatile liquid, while hydrogen chloride is a gas. Explain **(2mks)**

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b) Name the group of compounds to which hydrogen fluoride and hydrogen chloride belong. **(1mk)**

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8.Sodium chloride and aluminium chloride are chlorides of metals found in period 3 of the Periodic table. State and explain the observations made on methyl orange indicator when the compounds were added to separate samples of water in test tubes. **(3mks)**

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9. Concentrated sulphuric (VI) acid was added to a sample of table sugar.

a) State and explain the observation made. **(2mks)**

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b) Give an example of application of the reaction in **a)** above **(1mk)**

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10. Manganese (IV) oxide is mixed with hydrogen peroxide to form oxygen gas and mixed with concentrated hydrochloric acid to form chlorine gas in the laboratory.

a) State the role of manganese (IV) oxide in

i) Preparation of Chorine **(1mk)**

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ii) Preparation of Oxygen **(1mk)**

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b) Write chemical equations for the reactions that lead to:

i) Production of Oxygen **(1mk)**

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ii) Production of Chlorine **(1mk)**

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11. A white **powder J** was heated. A colourless gas was formed, and fumes of a brown gas observed along with a yellow **residue V** which cooled to form a white substance. When sodium hydroxide solution was added to cold **residue V**, a white precipitate which dissolved in excess sodium hydroxide to form a colourless **solution X** was observed.

a) Identify

i) Powder J _____ **(½mk)**

ii) Residue V _____ **(½mk)**

b) Why does **residue V** react with sodium hydroxide? **(1mk)**

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c) Write an equation that leads to the formation of the colourless **solution X** **(2mks)**

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12. Hydrogen sulphide gas is considered more poisonous than carbon (II) oxide. However, carbon (II) oxide poisoning accounts for more fatalities than hydrogen sulphide gas. Explain this observation **(2mks)**

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13. The melting point of halogens increases down the group, while that of the alkali metals decreases down the group. Explain this observation. **(3mks)**

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14. Dry chlorine gas is bubbled through a solution of sodium sulphite. Describe a test that shows chemical change took place. **(3mks)**

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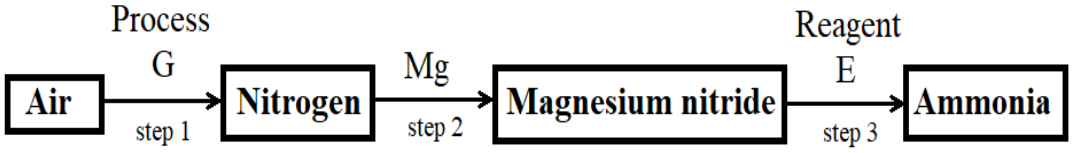
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15. The sequence below shows how air can be used as a raw material for obtaining ammonia.



a) Name **Process G** **(1mk)**

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b) Name **Reagent E** **(1mk)**

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c) Write a balanced chemical equation for the reaction in **step 2** **(1mk)**

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16. If 280cm^3 of nitrogen gas diffuses through a porous membrane in 70 seconds. How long will 400cm^3 of carbon (IV) oxide diffuse through the same membrane? **(3mks)**

(C = 12, O = 16, N = 14)

17. The following results were obtained from an experiment to determine the quantity of water of crystallization in the crystals of $ZnSO_4 \bullet XH_2O$:

Mass of crucible	21.30g
Mass of crucible + crystals	27.04g
Mass of crucible + residue	24.52g

Determine the value of **X** **(3mks)**

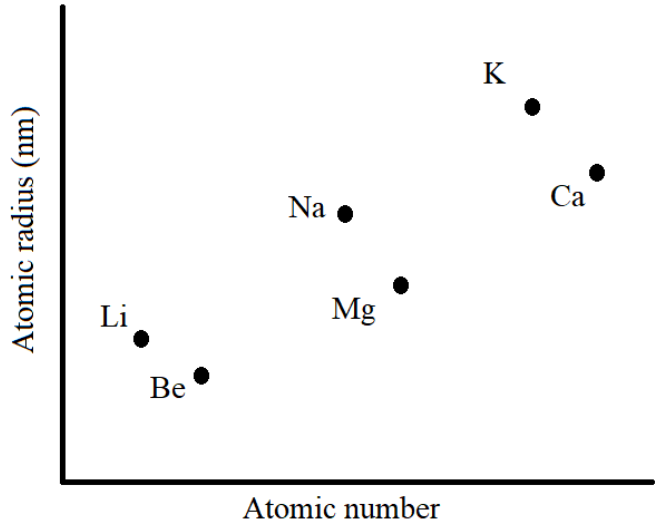
(Zn = 65, S = 32, O = 16, H = 1)

18. Determine the volume of hydrogen gas, at room temperature and pressure, produced in a class experiment when 4.333g zinc granules react completely with excess dilute sulphuric (VI) acid. **(3mks)**

(Zn = 65, Molar Gas Volume at R.T.P. = 24dm^3)

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19. The graph below shows the atomic radii of some elements in groups I and II plotted against their atomic numbers.



Explain:

a) The trend shown by Li, Na, and K. **(1mk)**

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b) Why the atomic radii of elements Be, Mg, and Ca are **lower** than those of Li, Na, and K **(2mks)**

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20. An element **Y** forms an ion $\mathbf{Y^{3-}}$. This ion contains 18 electrons.

a) State the group and period of this element. Explain **(2mks)**

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b) Write the formula of the compound which would be formed if **Y** reacts with chlorine. **(1mk)**

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21.

a) State Gay-Lussac's law. **(1mk)**

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b) When $30cm^3$ of a gaseous hydrocarbon reacted completely with $90cm^3$ of oxygen, $60cm^3$ of carbon (IV) oxide was produced. If all volumes of the gases were measured at room temperature, determine the formula of this hydrocarbon. **(2mks)**

22. The oxide of an element G contains 47.06% oxygen by mass. Determine the empirical formula of the oxide (G = 27, O = 16) **(2mks)**

23. Name and draw **two** structural isomers of pentyne **(4mks)**

Name	Name
Structure	Structure

24. Sulphur is soluble in ethanol but not in water. Sodium chloride is soluble in water but not in ethanol. Sand is insoluble in both ethanol and water. Describe how to obtain sand from a mixture of sand, sodium chloride, and sulphur. **(2mks)**

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25. Ammonium chloride reacts with calcium hydroxide in the Solvay Process to generate ammonia gas.

a) Write a chemical equation for the reaction **(1mk)**

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b) Calculate the volume of ammonia produced, at room temperature, when 2.14g of ammonium chloride reacts with calcium hydroxide. **(2mks)**

(N =14, H = 1, Cl = 35.5, Molar Gas Volume = 24dm^3)

26. Calcium oxide is used as a drying agent in the laboratory.

a) Calcium oxide is not suitable for drying hydrogen chloride gas. Explain **(2mks)**

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b) Name **one** suitable drying agent for hydrogen chloride gas. **(1mk)**

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c) In terms of structure and bonding, why is graphite used as a lubricant? **(2mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

CHEMISTRY
PAPER 2 (233/2)
FORM THREE (3)
Time: 2 Hours

Instructions;

1. Write **your name** and **Admission number** in the spaces provided above.
2. **Sign** and write **the date of examination** in the spaces provided above.
3. Answer all the questions in the spaces provided.
4. Mathematical tables and silent electronic calculators many be used.
5. All working **must** be clearly shown where necessary.

FOR EXAMINER'SUSE ONLY

QUESTION	MAXIMUM SCORE	SCORE
1	14	
2	13	
3	08	
4	13	
5	12	
6	13	
7	07	
Total score	80	

Turn Over

1 The diagram below shows part of the periodic table. The letters do not represent the actual symbols of the elements. Study it and answer the questions that follow.

A								
	B			C				D
E			F		G		H	
I								

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(a) Select from the table;

(i) The most reactive metal **(1mk)**

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(ii) The least reactive element **(1mk)**

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(b) State and explain the trend in :

(i) Reactivity of elements **A** and **E**. **(2mks)**

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(ii) Atomic radii of elements **F** and **G**. **(2mks)**

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(c) What name is given to the elements in the same group as element **H**? **(1mk)**

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(d) Write down the formula of the sulphite of element **E** **(1mk)**

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(e) The atomic number of an **element J** is 8. Locate **element J** on the grid. **(1mk)**

(f) Name the type of structure present in :

(i) Chloride of **F** **(1mk)**

……

……

(ii) Element **C** **(1mk)**

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(g) A sample of the oxide of **I** was dissolved in distilled water. Both blue and red litmus papers were dipped into this solution. State and explain the observations made. **(2mks)**

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(h) Give **one** use of element **B** **(1mk)**

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2 (a) One of the naturally occurring allotropes of carbon is graphite.

(i) Give the other allotrope of carbon. **(1mk)**

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(ii) Name **one** use of the allotrope in **a (i)** above **(1mk)**

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(iii) Name **one** other element which exhibit allotropy **(1mk)**

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(b) Fullerenes are synthetic allotropes of carbon obtained by manipulating carbon using laser beams. Given that the molecular formula of fullerene is C_{60} , determine its molar mass. (C=12.0) **(2mks)**

(c) Carbon (IV) oxide may be prepared by reacting dilute sulphuric (VI) acid and a carbonate.

(i) Explain why lead (II) carbonate wouldn't be suitable for use in this reaction. **(2mks)**

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(ii) State and explain the observations made when carbon (IV) oxide is bubbled through a solution of calcium hydroxide. **(2mks)**

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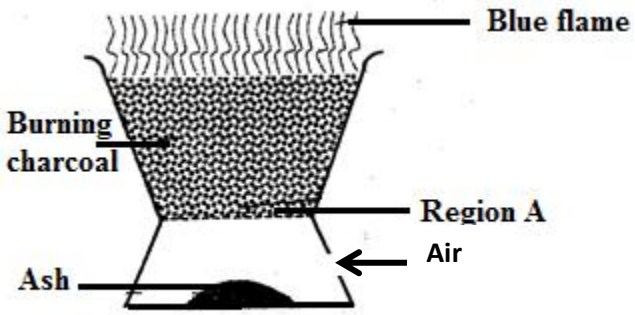
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(iii) Name **one** use of carbon (IV) oxide other than in fire extinguishers. **(1mk)**

……

……

(d) The diagram below shows a Jiko when in use. Study it and answer the questions that follow.



(i) Write the equation taking place at region **A**. **(1mk)**

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(ii) Why is not advisable to place such a Jiko in a closed room? **(2mks)**

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3 (a) What is the effect of impurities on the;

(i) Boiling point of water **(1mk)**

……

……

(ii) Melting point of naphthalene **(1mk)**

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(b) Why is rock salt poured on roadways during winter in some countries in Europe? **(1mk)**

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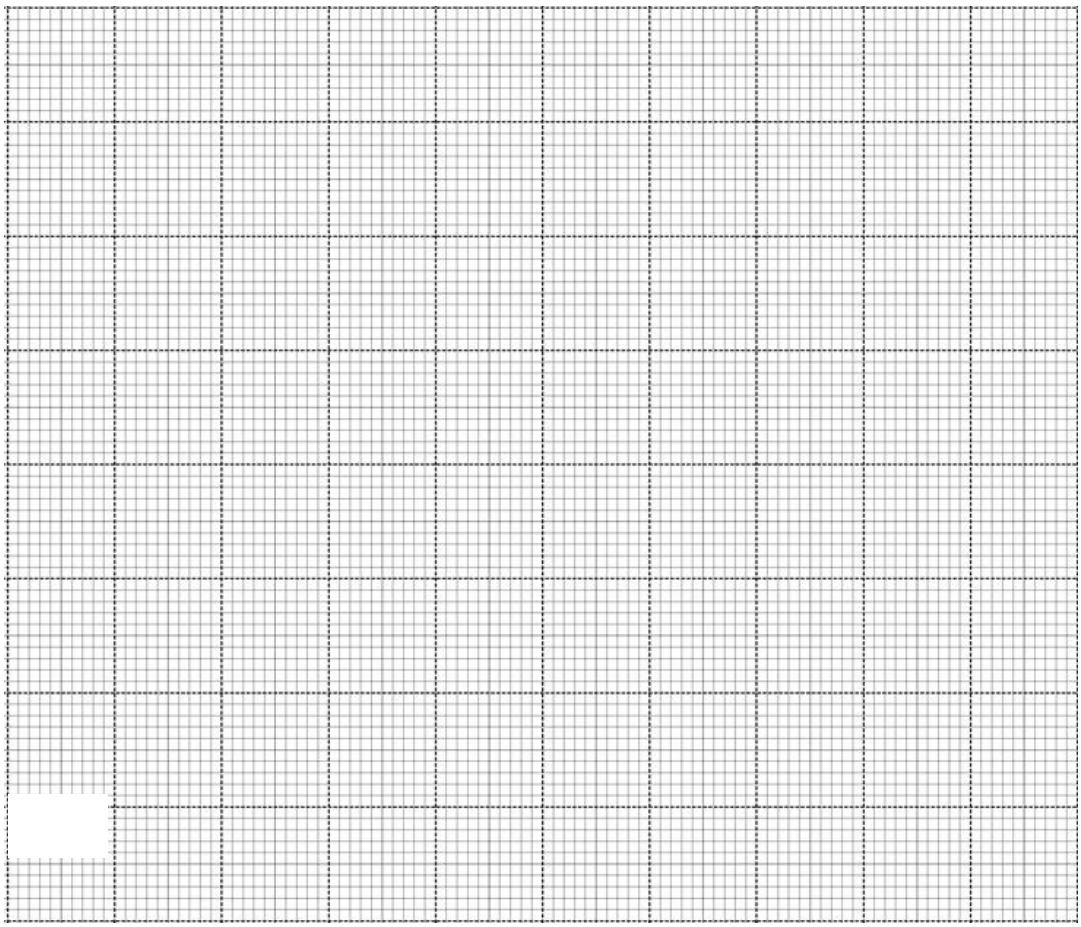
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(c) In an experiment to determine the freezing point of a certain solid, solid **G**, students heat the solid to melting and then allowed to cool. The temperature was recorded after every 30 seconds and the table below was obtained

Time (seconds)	0	30	60	90	120	150	180	210	240	270
Temperature (^oC)	85.0	80.0	75.5	72.0	70.0	68.0	66.0	65.0	65.0	62.5

(i) On the grid provided, plot a graph of temperature (vertical axis) against time. **(3mks)**



(ii) From the graph determine the freezing point of **solid G** **(1mk)**

(d) Give the type of change that occurs when;

(i) Iron nail rusts **(½mk)**

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(ii) lead (II) nitrate is heated **(½mk)**

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4 (a) Other than manufacture of dyes and fireworks, Name **two** uses of sulphur **(2mks)**

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(b) Sodium sulphite reacts with hydrochloric acid according to the equation below.

$$Na_2SO_3(aq) + 2HCl(aq) \longrightarrow 2NaCl(aq) + SO_2(g) + H_2O(l)$$

25.0 cm^3 of 2 M sodium sulphite was reacted with excess hydrochloric acid. Determine the volume of SO_2 (g) produced. (Molar gas volume at r.t. p = 24 dm^3) **(3mks)**

(c) State and explain the observations made when a moist blue litmus paper is dropped in gas jar full of sulphur (IV) oxide gas. **(2mks)**

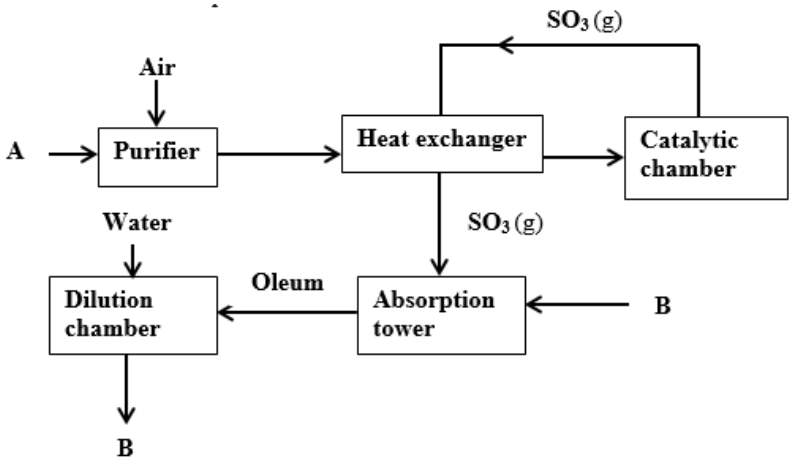
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(d) Study the flow chart below which shows the preparation of sulphuric (VI) acid and answer the questions that follow



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(i) Give the name of substances;

(I) A …… **(1mk)**

(II) B …… **(1mk)**

(ii) Name the catalyst used in the above process. **(1mk)**

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……

(iii) Write the equation for the reaction between water and oleum **(1mk)**

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……

(iv) State **two** uses of sulphuric (VI) acid **(2mks)**

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5 (a) Give the name of the following organic compounds;

(i) $C(CH_3)_4$ **(1mk)**

……

……

(ii) $CH_3CHCHCH_2CH_3$ **(1mk)**

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……

(iii) $CHCCH_2CH_3$ **(1mk)**

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(b)(i) Name **two** reagents that can be used to prepare ethyne **(1mk)**

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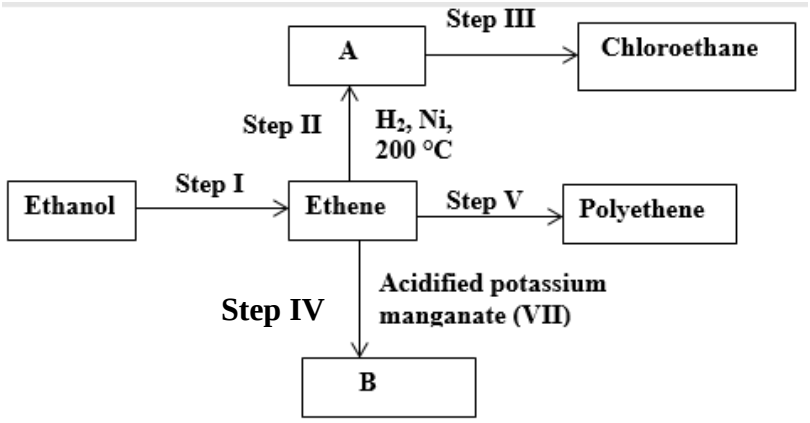
(ii) Write the equation for the reaction that takes place in b (i) above **(1mk)**

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(c) Study the flow chart below and answer the questions that follow



(i) Give the reagent and condition for the reactions in **step I** and **step III**

Step I

Reagent……..…….....….. **(1mk)**

Condition(s)……..……... **(1mk)**

Step III

Reagent……..……..……..….. **(1mk)**

Condition(s)……...…….....…..... **(1mk)**

(ii) Draw the structure of compound **B** **(1mk)**

(iii) Give the name of compound **A** **(1mk)**

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(iv) State **one** use of Polyethene **(1mk)**

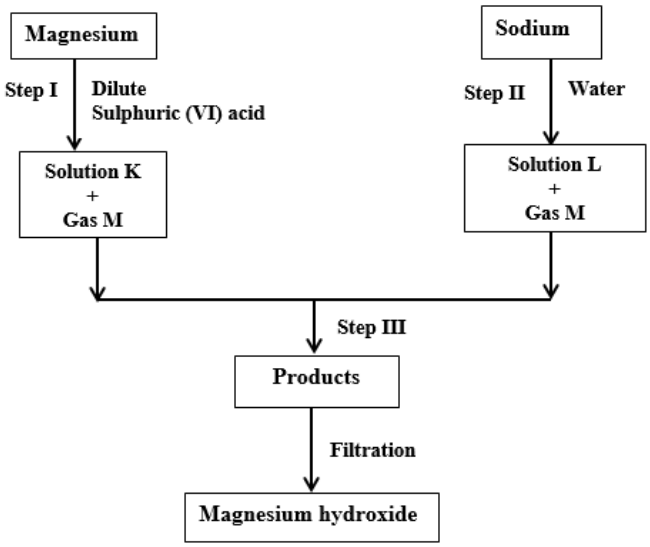
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6 (a) The flow chart below was used in preparation of magnesium hydroxide. Study it and answer the questions that follow.



(i) State, with a reason the precaution that should be taken in step II **(1mk)**

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(ii) Identify;

I Solution **K** **(1mk)**

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……

II Solution **L** **(1mk)**

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(iii) Describe the chemical test for gas **M** **(2mks)**

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(iv) Give **one** use of magnesium hydroxide **(1mk)**

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(b) Starting with barium carbonate, describe how a sample containing barium sulphate would be prepared in the laboratory. **(3mks)**

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(c)(i) Urea, **$(NH_2)_2CO$**, is prepared by passing carbon (IV) oxide through ammonia solution. Explain why urea is a better nitrogenous fertilizer than ammonium nitrate.(C=12.0, N=14.0,H=1.0, O=16.0) **(3mks)**

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(ii) Other than manufacture of fertilizer give **one** use of ammonia **(1mk)**

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7 (a) Name the gas produced when concentrated sulphuric (VI) acid is reacted with sodium chloride crystals. **(1mk)**

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……

(b)(i) State **two** uses of chlorine gas. **(2mks)**

……

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(ii) State and explain the observations made when a moist blue litmus paper is dropped in a gas jar full of chlorine.**(2mks)**

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(c) DDT is a pesticide which has limited use in disease vector control.

(i) What does DDT stand for? **(1mk)**

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(ii) Name **one** environmental impact of DDT **(1mk)**

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EXCELLING STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

CHEMISTRY

PAPER 3 (233/3)

FORM THREE (3)

Time: 2 ¼ Hours

INSTRUCTIONS

* Write your **name** and the indicated details in the spaces provided on this page.
* Answer **ALL** questions in the spaces provided in the question paper.
* You are **NOT** allowed to start working with the apparatus for the first 15 minutes of the 2¼ hours allowed for this paper.

  This time is to enable you to read the question paper and make sure you have all the chemicals and apparatus you may need.
* Mathematical tables and silent electronic calculators may be used.
* All working must be clearly shown where necessary.

For Examiner's Use Only

Question	Maximum score	Candidate's score
1	14	
2	16	
3	10	
Total score	40	

1.You are provided with:

- Solution **P** containing 0.2 moles in 1.0 dm^3 of HCl
- Solid **Q**, 0.5 g of metal carbonate (MCO_3)
- Solution **R**, sodium hydroxide solution containing 4.0 g in one litre of solution.

You are required to:

(a)Determine the R.A.M of metal M

Procedure

Using a 100 ml measuring cylinder, measure 100 cm^3 of solution **P** into a clean 250 ml conical flask and add all the 0.5 g of the solid **Q**. Shake well and wait for effervescence to stop. Label this as solution **S**. Pipette 25cm^3 of solution **S** into a conical flask and add 2-3 drops of phenolphthalein indicator. Fill the burette with solution **R** and titrate against the solution **S** until the end-point. Repeat the titration two more times and record your results in the table below.

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Table I

Titre	1	2	3
Final burette reading (cm^3)			
Initial burette reading (cm^3)			
Volume of solution R used (cm^3)			

(4mks)

(a) Calculate the average volume of solution **R** used. **(1mk)**

(b) Calculate the number of moles of sodium hydroxide, solution **R** used. **(1mk)**

(c) Calculate the number of moles of HCl in solution **S** used. **(1mk)**

(d) Calculate the number of moles of HCl solution **S** in 100 cm^3 of solution. **(1mk)**

(e) Calculate the number of moles of HCl in the 100cm^3 of the original solution **P**. **(1mk)**

(f) Calculate the number of moles of HCl solution **P** that reacted with solid **Q**. **(1mk)**

(g) Calculate the number of moles of MCO_3 that reacted. **(2mks)**

(h) Calculate R.F.M of MCO_3 and hence the R.A.M of M. (C=12, O=16). **(2mks)**

2. You are provided with **solid V.** Carry out the following tests and record your observations and inferences in the spaces provided.

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(a) Describe the appearance of **solid V**. **(1mk)**

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(b) Add all solid **V** to about $10cm^3$ of distilled water in a boiling tube and shake well. Place $2cm^3$ portions of the resulting mixture into 5 separate test tubes to be used for the following tests.

Observations	Inference
(1mk)	**(1mk)**

(c) To the first portion add 2M sodium hydroxide solution dropwise until in excess.

Observations	Inference
(1mk)	**(1mk)**

(d) Clean one end of the glass rod provided. Dip the clean glass rod end into the second portion and heat it in a non-luminous flame. Note the colour of the flame and record it below.

Observations	Inference
(1mk)	**(1mk)**

(e) To the third portion, add 2 or 3 drops of lead (II) nitrate solution.

Observations	Inference
(1mk)	**(1mk)**

(f) To the fourth portion add 2 drops of barium nitrate solution followed by 2 cm^3 of nitric (V) acid provided.

Observation	Inference
(2mks)	**(1mk)**

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(g) To the fifth portion, add 3 drops of acidified potassium manganate (VII) solution.

Observations	Inference
(1mk)	**(1mk)**

(h) Give possible identities of the cation and anion present in solid **V**. **(2mks)**

Cation ……

Anion ……

3.You are provided solid **T**. Carry out the following test and write your observations and inferences in the spaces provided.

(a) Describe the appearance of **solid T**. **(1mk)**

……

……

……

(b) Place a spatulaful of solid **T** in a test tube. Heat it gently and record your observations.

Observations	Inference
(1mk)	**(1mk)**

(c) Add all the remaining solid **T** to about $10cm^3$ of distilled water in a boiling tube and shake well. Place $2cm^3$ portions of the resulting mixture into 5 separate test tubes to be used for the following tests.

(i) To the first portion add 2M sodium hydroxide solution dropwise until in excess.

Observations	Inference
(1mk)	**(1mk)**

(ii) To the second portion add ammonia solution dropwise until in excess.

Observation	Inference
(2mks)	**(1mk)**

(iii) Give the name and the formula of the complex ion formed in test (ii) above. **(2mks)**

Name…….

Formula …….

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EXCELLING STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

COMPUTER STUDIES (451/1)
PAPER 1
FORM THREE (3)
Time: 2 ½ Hours

INSTRUCTION TO CANDIDATES

- Write your name and index number in the spaces provided above
- This paper consists of **Two** sections **A** and **B**
- Answer **ALL** questions in section **A**
- Answer question16 and any other **THREE** questions from section **B**
- All answers should be written in the spaces provided on the question paper

FOR EXAMINER'S USE ONLY

SECTION	QUSTIONS	CANDIDATE'S SCORE
A	1 -15	
B	16	
	17	
	18	
	19	
	20	
	TOTAL SCORE	

SECTION A (40 MARKS)
Answer ALL the questions in SECTION

1. Give three measures an organization need to put in place to prevent threats from sabotage **(3mks)**

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2. Describe any three types of data that can be accepted in spreadsheet cells (**3mks**)

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3. Mention three factors to consider before installing an operating system in a computer **(3mks)**

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4. Enumerate three data management tools available in spreadsheet **(3mks)**

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5. Describe three ways in which ICT can be used to run a taxi business in a busy town like Nairobi **(3mks)**

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6. State a stage in system development life cycle where each of the following activities are carried out **(3mks)**

(i) Performing system audit

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(ii) Listing hardware and software requirement of the system

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(iii) Establishing whether the system to be developed is cost effective

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7. Convert the decimal number $30\frac{3}{8}$ to its binary equivalent **(3mks)**

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8. Briefly describe three ways in which internet platforms have revolutionized business activities **(3mks)**

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9. Give three ways of preventing transcription errors during data entry **(3mks)**

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10. Describe the term desk checking as used in computer programming **(1mk)**

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11. Describe three security services offered by the operating system in a computer **(3mks)**

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12. When an image inserted in a desktop publishing document is selected, handlers on its place holder appears. State two uses of these handlers **(2mks)**

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13. Use flowcharts to demonstrate two ways of implementing a For loop in a program **(2mks)**

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14. Use appropriate example to explain how records are accessed in sequential file organization using binary search method **(3mks)**

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15. Write down the correct syntax for each of the following Excel functions given that C1,C2,C3,C4 and C5 contain 50,60,45,56 and 10 respectively **(2mks)**

(i) RANK

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……

(ii)COUNTIF

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SECTION B (60 MARKS)

16.

(a) Describe the following terms as used in programming **(3mks)**

(i) Hardware oriented

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(ii) Syntax

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(iii) Bug

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(b) When writing a computer program programmers are always advised to use approaches and techniques that makes the program easy to follow and maintain. List four ways in which a programmer can make program code easy to follow **(4marks)**

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(c) A bookshop owner contracted a programmer to design a program that can be used to manage book orders in his business as follows;

- Enter the order ID and Order amount
- Calculate the discount and New order amount

The book shop gives a discount of 13% for orders of a books worth Ksh.5, 000, 8% for orders of books worth Ksh.1000 and none for orders worth Ksh.1,000 and below.

Draw a flowchart to represent the information above, display the discount and new order amount **(8mks)**

17.

(a) List the process used by the computer to perform the following arithmetic operations **(3mks)**

(i) Addition

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(ii) Multiplication

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(iii) Subtraction

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(b) Convert the following numbers to binary number

(i) 10AH **(3mks)**

(ii) $23\frac{13}{64}$ base 10 **(3mks)**

(c) Perform the binary arithmetic below and write your answer in decimal notation **(3mks)**

0001101_2+000111_2-001011_2

(d) Identify three ways of representing negative signed binary numbers **(3mks)**

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18.

(a) Give four ways of in which parents can protect their children from accessing inappropriate content from the internet **(4mks)**

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(b) Due to the risks involved in using the traditional classroom teaching method during this covid-19 period, many colleges have embraced online teaching via Zoom, google classroom and Webex. Mention four items that a student must have in order to attend lessons through the platforms indicated above **(4mks)**

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(c) Briefly describe four benefits of backing up data in your phone in the clouds **(4mks)**

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(d) Explain the following types of security threat **(3mks)**

(i) Malware attack

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(ii) Social Engineering

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(iii) System failure

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19.

(a) Repetitive Strain and eye strain may results from use of computers. State two ways of minimizing each of the mentioned health problems **(4mks)**

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(b) Describe the effects of the following actions in a computer laboratory **(3mks)**

(i) Drinking Tea

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(ii) Cleaning the computers with soft cloth soaked in water

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(iii) Smoking

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(c) Mr. J.O Were the Principal and the Basketball coach of Kisumu Day High school wants to invite several schools for Basketball tournament .He was advised to use mail merging technique to create invitation letters for the respective schools identified. Give three benefits of this technique **(3mks)**

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(d) A student from Maranda High School was typing a document using Ms-word. He typed Maseno School as the title of the document. He was requested by his teacher to insert High in between Maseno and School. Explain what will happen if the Ms-word editing mode is set to type over **(2mks)**

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(e) Name three transformation techniques supported by Ms-Word which enable users to format graphic and fit them nicely in a document **(3mks)**

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20.

(a) Study Table A and B then use it to answer questions that follows

Table I

Field Name
ID Number
Last Name
First Name
Address
Town

Table II

Field Name
ID Number
Product ID
Product Name
Unit cost
Quantity
Date of Birth
Total

(i) Identify the most appropriate data type for ID Number, Product Name and Quantity **(3mks)**

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(ii) Given that the data type for Total is calculated write an expression to be entered in the expression builder **(2mks)**

(iii) Suggest how date birth can be validated to restrict entries of date that follow in 2010 only **(2mks)**

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(iv) Explain how a relation can be created between Table A and B **(2mks)**

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(b)

(i) State the difference between a line printer and page printer **(2mks)**

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(ii) List four features of a Laser printer **(4marks)**

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EXCELLING STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

COMPUTER STUDIES (451/2)
PAPER 2
FORM THREE (3)
Time: 2 ½ Hours

INSTRUCTIONS TO CANDIDATES

1. Write your name and admission number at the top right hand corner of each print out
2. Write your name and admission number on the diskette/CD-R provided
3. Write the name and version of software used in each question on the answer sheet
4. Answer **ALL** the questions
5. Passwords **should not be used** while saving in the diskette/CD-R
6. All answers **MUST** be saved in the diskette/CD-R
7. Make print out of answers on the answer sheet provided

FOR EXAMINER'S USE ONLY.

Question	Candidate's score
1	
2	
Total score	

Question One

(a) Type the following passage exactly as it appears using a word processor and save it as Information System

(20 marks)

PROCESS OF INFORMATION SYSTEM DEVELOPMENT

INTRODUCTION TO INFORMATION SYSTEM DEVELOPMENT

The methodology area can justly be described as a jungle. Firstly there appears to exist many hundreds of the system development methodologies. Longworth (1985) in a recent study identified over 300. If all these are different, then it is no wonder that there is so much confusion. However, it may be that the differences are trivial and are made solely to differentiate methodologies in the market place.

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WHAT IS A METHODOLOGY?

The term methodology is not well defined either in Literature or by practitioners. There is very little agreement as to what it means other than at a general level. The term is usually used very loosely and yet it is used very extensively.

This loose use does not mean that there are no definitions, simply that there are no universally agreed definitions. At the general level, it is regarded as a recommended series of steps and procedures to be followed in the course and developing an information system. In a brief *adhoc* survey, this proves to be about the maximum that people will agree to and of course such a definition raises many more questions than it answers.

For example:

- What is the difference between a methodology and a method?
- Does a methodology include a specification of the techniques and tools which are to be used?
- Does a collection of techniques and tools constitute a methodology?
- Should the use of a methodology produce the same results each time?

The questions that arise are fundamental as well as numerous. Unfortunately the most that can be achieved is to air the issues. The information system community is in the process of debating the meaning of the term methodology in an information system context, and it may one day have a universal definition. However, it may be more realistic to assume that this will never be achieved. An information system's methodology has been defined as *a recommended collection of philosophies, phase, procedures, rules, techniques, tools, documentation, management and training for developers of information systems.* (Madison 1983).

According to this definition, a methodology has a number of components.

Which specify:

(i) How a project is to be broken down into stages

(ii) What tasks are to be carried out at each stage

(iii) What outputs are to be produced

(iv) When they are to be carried out

(v) What constraints are applied

(vi) What support tools may be utilized

In addition, the methodology is supposed to specify how the project is to be managed and controlled and support the training needs of the users of the methodology. This is all encompassed in a view or philosophy concerning the important and critical aspects of information systems development.

Required to

a) Remove the underline from all the underlined and change the text to bold and italics. Apply hanging indent to the first two paragraphs. **(5mks)**

b) Proof read the document. **(2mks)**

c) On the paragraph starting with "The questions…….apply in margin drop cap covering two lines. **(3mks)**

d) Apply expanded character spacing on the sub heading "What is Methodology" at 10 points. **(3mks)**

e) Select the text starting from the words "For example:….. information systems development" (at the end of the passage) and move it to a new page. **(3mks)**

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f) Convert the entire document it to two columns of the separated by a line. **(3mks)**

g) Double space the first paragraph. **(2mks)**

h) Insert your name into the passage as a footer so as to appear as © your name **(3mks)**

i) Insert page number at the top of the page of the format x of y at the center. **(4mks)**

j) Save the changes as Methodology. **(1mk)**

k) Print information system and methodology **(2mks)**

Question Two

The table below shows the payment schedule of Sunshine Company Employees.

Below is a list of allowances and basic salaries for ten employees in the month of July 2022.

NAME	REGION	MEDICAL ALLOWANCE	HOUSE ALLOWANCE	BASIC SALARY	HARDSHIP ALLOWANCE
MURTAZA	EAST	5,000	10,000	20,000	
WASIM	EAST	3,000	8,000	16,000	
MWANGI	WEST	3,500	8,000	16,000	
ISHO	WEST	6,000	12,000	25,000	
MITESH	WEST	2,500	6,500	12,000	
MITHEU	EAST	2,500	6,500	12,000	
KRISHNA	EAST	7,000	15,000	30,000	
MBUGUA	WEST	3,500	8,000	16,000	
KASOO	WEST	3,500	8,000	16,000	
SARU	WEST	3,500	8,000	16,000	

a) Using the above information, design an appropriate spreadsheet and enter the given sample data. Give the spreadsheet an appropriate title and save as Sunshine. **(10mks)**

b) Insert heading titled. SUNSHINE COMPANY EMPLOYEES' PAYROLL. **(2mks)**

c) Format the title as follows: bold, underline, font size 21, font color blue, background color yellow, merge the cells to center. **(3mks)**

d) Count the number of employees from West and East respectively. **(2mks)**

e) In cell B15 and C15 inset the 20% and 30% respectively. Given that employees from East were paid Hardship allowance of 20% of basic salary and those from West were paid 30% of basic salary. Using absolute cell reference calculate hardship allowance for all the employees. **(9mks)**

f) Gross salary is calculated as the total of basic salary and all the allowances. Calculated the gross

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salary for all employees in column G. **(3mks)**

g) All the employees pay tax of 15% in column H calculate the tax for all the employees. **(3mks)**

h) In column I calculate the net salary of the employees as Gross salary less Tax. **(3mks)**

i) In cell G14 calculate the average gross salary, and cell I14 count the number of employees whom are paid 30,000 and above. **(4mks)**

j) Create a bar chart comparing every employee and the net salary, label the chart title, axis appropriately and place the chart on its own sheet. **(6mks)**

k) Copy the data in sheet 2 and calculate the subtotal of the net of every region and the grand total. **(4mks)**

l) Print the two sheets and the graph. **(3mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

CHRISTIAN RELIGIOUS EDUCATION (313/1)

FORM THREE (3)

Time: 2½ Hours

INSTRUCTIONS: This paper has **SIX** questions

Answer only **FIVE** Questions

Q	1	2	3	4	5	6	Total
MAX	20	20	20	20	20	20	100

1a) Outline Translation of the Bible from the original languages to local languages **(6mks)**

b) From the Genesis stories of creation, outline seven teachings about Human beings. **(8mks)**

c) How does the church bring back members who have fallen from the faith **(6mks)**

2a. Describe the call of Abraham (Genesis 12:1-9) **(7mks)**

b. Explain four characteristics of a covenant demonstrated in the covenant between God and Abraham **(8mks)**

c. Give **five** reasons why church leaders take vows before starting their **(5mks)**

3a State **Six** duties of Samuel as a prophet of God **(6mks)**

b. State the factors that led to the failure of David's successors **(7mks)**

c. Identify the characteristics of God as portrayed in the life of King David **(7mks)**

4 a. State **three** difference between prophets in the Old Testament and Traditional African communities **(6 mks)**

b. Outline the teaching of prophet Amos on the day of the Lord. **(7mks)**

c. Identify **seven** ways in which the Israelites disobeyed God during the time of Prophet Amos **(7mks)**

5 a. Give Six problems prophet Jeremiah encountered before the Babylonian Exile **(6mks)**

b. Describe the political background to Nehemiah **(6mks)**

c. State the importance of prayer in the life of a Christian **(8mks)**

6 a. State the traditional African understanding of spirits **(6mks)**

b. Name six places in which sacrifices are carried out in traditional African communities. **(6mks)**

c. Explain the activities carried out in traditional African communities to ensure a newly born baby is safe (**8mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

CHRISTIAN RELIGIOUS EDUCATION (313/2)
PAPER 2
FORM THREE (3)
Time: 2 ½ Hours

INSTRUCTIONS

This paper has **FIVE** questions

Answer **ALL** Questions in the answer sheets provided

Q	1	2	3	4	5	Total
MAX	20	20	20	20	20	100

1a. Outline Jeremiah's prophecies about the Messiah (Jeremiah 23: 5-6) **(7mks)**
b. With reference to Luke 1:13-17, outline the message of angel Gabriel about John to Zechariah **(7mks)**
c. Identify six lessons Christians learn from the annunciation of the birth of John the Baptist **(6 mks)**

2a. Outline the differences between the work of John the Baptist and that of Jesus Christ. **(8mks)**
b. Give four reasons why Jesus faced opposition from the Pharisees in Galilee (Luke 5: 6 -11 **(7mks)**
c. State five ways in which church leaders can respond to those who oppose them in their work **(5mks)**

3a. Narrate the parable of the widow and the unjust judge (Luke 18: 1-8) **(7mks)**
b. Give reasons why Jesus referred to the Pharisees as hypocrites **(8mks)**
c. What lessons do Christians learn from the parable of the ten pounds? Like 19: 11-27) **(5mks)**

4 a. Describe the triumphant entry of Jesus into Jerusalem. **(8mks)**
b. How did the resurrected Christ reveal himself to his followers **(6mks)**
c. Why is the death of Jesus important to Christians? **(6mks)**

5 a. State the teaching of Saint Paul on the proper use of the gifts of the Holy Spirit in the Church **(7mks)**
b. Explain how the unity of believers is expressed in the image of the body of Christ
(1^{st} Corinthians 12: 12-27, Ephesians 4 : 1-12 **(8mks)**
c. Give five examples of relationship based on false love in Kenya today **(5mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

ENGLISH
PAPER 1 (101/1)
FORM THREE (3)
Time: 2 Hours

(Functional writing, cloze test and oral skills)

INSTRUCTIONS TO CANDIDATES

- Write your name and index number in the spaces provided.
- Answer **ALL** the questions in spaces provided.
- Candidates should check the question paper to ensure that all pages are printed as indicated and no questions are missing.

For Examiners Use Only

Question	Maximum Score	Candidates Score
1	20	
2	10	
3	30	
Total Score	60	

SECTION A: FUNCTIONAL SKILLS (20 MKS)

You are the Journalism Club secretary at Ushindi School in Nairobi. It has been your long term wish to invite a nearby school to Journalism Talent search Extravaganza. On their coming, you would like them to carry Ksh. 2000 for registration, their packed lunch and their note books. Write a letter inviting them to this important function.

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SECTION B: CLOZE TEST 10MARKS

Read the passage below and fill in each blank space with the most appropriate word.

When food gets **(1)**_____ people are forced to resort to desperate measures. **(2)**_____ families resort to eating wild fruits, tubers and vegetables. For example, in Turkana South, people eat a hard highly **(3)**_____ wild fruit called 'elamarch' which they have to boil for over ten hours before it becomes safe for human **(4)**_____ . Sadly, by the time it is cooked, some people would have **(5)**_____of hunger. The most **(6)**_____ twist to famine situation is when food poisoning occurs, it aggravates an already **(7)**_____ situation because it also deprives human **(8)**_____food. The **(9)**_____ poisonous substance found in contaminated food is aflotoxin B1. Aflotoxin in mainly found in **(10)**_____ stored maize.

SECTION C: ORAL SKILLS 30MARKS

a.Read the poem below and answer the questions that follow.

SUNSET

The sun spun like
A tossed coin
It whirled on the azure sky
It clattered into the horizon
It clicked in the slot
And neon lights popped
And blinked "time expired,"
As on parking meter.

(Oswald Mbusiyeni)

Questions

(i) Describe the rhyme scheme of the poem**.** **(3mks)**

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(ii) How would you say the last line of this poem. **(2mks)**

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(iii) Identify and illustrate 2 sound patterns used in the poem. **(4mks)**

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(iv) State and illustrate three non-verbal cues that you would use to make the recitation of the above poem interesting. **(3mks)**

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b. State whether you will use a falling or rising intonation in the following sentences. **(4mks)**

a) How did the students travel to Mombasa? _____

b) I have been working very hard for the coming examination. _____

c) Have you ever been to America? _____

d) What a horrible accident! _____

c. Write another word with similar pronunciation as these: **(6mks)**

i) Bail – **……**

ii) All – **……**

iii) Days – **……**

iv) Crews –**……**

v) Fay – **……..**

vi) Oh – **……**

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d. You have been invited to attend an interview in IT company for the position of company Assistant Director. How you would conduct yourself during the interview to emerge the best? **(5mks)**

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e. <u>Below is an extract from a discussion. Read it carefully and answer the questions that follow.</u>

CHAIRPERSON: Manzee, the teacher of English left us this question. Let's hurry over it and go on with other things. The question is "What role does Nora play in the A Doll's House? Evans, what do you think?

JEFF: Excuse me. We have not chosen a secretary. How can we go on without one? Everybody chill. Let everybody take down their notes. So, we do not need a Secretary.

EVANS What about the report we have to make. A secretary is necessary for a Discussion of this nature.

CHAIRPERSON: (Furiously) You can't over-rule us here, Evans. You'd better shut up. Nora is Helmer's wife who offers assistance in raising their family.

FLORENCE: (Loudly) Noo! But Nora abandons the family and goes to find her peace.She is...

DAN: We are not talking about….

CHAIRPERSON: Eeh! Stop it! Nora develops the plot in the story. She agrees to take a loan for the sake of her husbna. Let's stop there, discussion Over.

ELIZA: (Amid pandemonium) But we haven't finished the assign……

CHAIRPERSON: I said over. Next time.

Questions

1.Based on your knowledge of group discussions, identify 3 weaknesses in the discussion. **(3mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

ENGLISH
PAPER 2 (101/2)
FORM THREE (3)
Time: 2 ½ Hours

(Comprehension, Literary Appreciation and Grammar)

For Examiner's use only

Question	Maximum Score	Candidates Score
1	20	
2	25	
3	20	
4	15	
	Total Score	

1. COMPREHENSION (20MARKS)

Read the passage below and answer the questions that follow.

America has a long tradition of creativity. The expression Yankee **ingenuity** is an acknowledgement of this trait present Americans with a novel problem, especially technological and they are likely to come up with the solution sooner rather than later.

That is the positive side. The downside is that in policy matters, Americans sometimes come up with the solutions and then look for personal problems on which to test them. Washington D.C, perhaps more than any other city in the world, has many solutions seeking problems to lock onto.

If the solutions are successful, domestically or internationally, you can expect any amount of excitement and chest thumping, which is another **hallmark** of the American character. Modesty is frowned upon as something for sissies or failures. Countries and peoples are ready paradigm of winners and losers. Woe unto you if you are a 'loser'. You will endure all manner of taunts and putdowns.

To escape this fate, most Americans-including those who are demonstrably poor, call themselves middle class, which probably they are when compared to the poor in other places. But poverty is relative to immediate environment not to some distant places.

One of the more recent American inventions is spinning not as in making clothes (the American textile industry has long being outsourced, notably from China another low wage country),but rather as in using words and other symbols amplified by the media to paint a picture of anything and everything in alight favorable to the presenter's side.

This past week, the world witnessed, yet again, this peculiar American habit of hype and more hype, in this instance, designed to drive the point home that America's declared policy to force-feed democracy to recalcitrant

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societies has just scored a **humongous** victory. Following the Iraqi elections the turn out in particular, has been hailed as a stunning victory of American policy. Pitted against Iraqi Jihadists who are waging a relentless and ruthless insurgency, a scintilla of validation of America's Iraqi policy was all that was necessary to set off celebratory fireworks.

To those who recount narratives (the spinners), whose job it is to put a bright glass on things a clear picture of winners and losers are the Neanderthals; "thugs and assassins" in the words of the newly sworn in secretary of state Condeleeza Rice-the insurgents who threatened to wreak havoc on election day in Iraq but were thwarted. The high turnout was read as a violation of many things that were most likely absent from the minds of those Iraqi voters who cast their ballots. Before it was even known whom they had voted for and why, the whole enterprise was turned into cause for chest thumping by some American politicians, prompting John Kerry the loser in the November presidential race, to warn against hyping the Iraqi election.

Who will listen to a loser? This is America! By the time Kerry spoke, the spinning was in full gear. It was another turning point, declared elated talking heads. Never mind that there have been numerous "turning pints" in Iraq's tortured post-invasion experience. The winners were emerging.

A few voices have urged caution but they are drowned out by the self-congratulation that has **engulfed** just about every major media outlet here.

It is reminiscent of the chatter that followed Saddam Hussein's capture. That was another turning point. The irony is that America has been through this before, in a different place, with almost the exact same headlines. In the late 1967, many American newspapers published flowery and upbeat stories on the elections held in South Vietnam at the height of the war. The turnout was nearly 83% despite Vietcong terror. The election was declared a success and a turning point that would lead to stabilization of the country and eventual defeat of the insurgents. Of course, nothing of the sort happened.

History does not **invariably** repeat itself. Sometimes it does. Whatever one might think of it, history does always serve up many lessons. One of them is that a dose of modesty is always in order when confronted with vast historical forces or when seeking to rearrange complex societies their go hundreds, if not thousands, of years back.

What may look like victory as first sight may turn out to be another opening to a complex and trying situation that control produce winners or losers. It looks like this what is emerging in Iraq. The millions who headed to the polls on the instructions of their electrical leaders (remember Grand Ayatollah Sistani declared it a religious duty to vote? May or may not have had a clear idea of what society were hoping to create. Their leaders probably do. Iraqis voted and they are justifiably proud of it. However, this should not be made to look like a first in the Islamic world, as it is being painted in the media. Not too long ago, an Islamic party had won a clear and convincing victory in a free and fair election in Algeria. It was never allowed to assume power. The international authorities desisted from calling the denial an affront to democratic practice. The man who cancelled the Algerian election results is feted in the very same quarter that now preach democracy.

Society's broken tyranny, war, fragmentation and other ills are not served by putdowns of important segments within them.

The approach may produce winners in the short term but for more losers in the end. Moreover, here we are talking of those who could lose everything, including their lives, on a mass scale. A little modesty may just be what is needed to get people across the divide talking. After all, in the end, we are all losers.

Questions

a) What is the negative side of America's long tradition of creativity? **(2mks)**

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b) "Woe unto you if you are a loser." What does the author mean by this statement? **(2mks)**

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c) Identify and explain an instance of irony in this passage. **(3mks)**

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d) What is the author's attitude towards the Americans? Give reasons for your answer. **(2mks)**

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e) '...and the losers are Neanderthals; …' explain how the Neanderthals became losers according to this passage. **(2mks)**

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f) What according to the passage is referred to as spinning? **(2mks)**

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g) Identify one American policy discussed in this passage. **(2mks)**

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h) Explain the meaning of the following words as used in the passage. **(5mks)**

i) Ingenuity……

ii) Hallmark……

iii) Engulfed……

iv) Humongous……

v)Invariably……

2.

Read the excerpt below and answer the questions that follow (25 marks)

First, there was a loud crash. Some moving object had hit another moving object. A trailerhooked to a truck negotiating a turn at a roundabout had broken free, spun outward, and ended up on top of a minibus in an adjacent lane. The drivers of both vehicles had then runaway. They had done so to avoid mob justice.

Now the passengers in the unlucky minibus were struggling to get out, except for one—a woman trapped in a seat. A man had seen her on his way out. He tried to go back in and get her out, but all doors had jammed. He pulled a mobile phone out of his pocket and called themystical number — 999 — to report distress and request help. The hour was ten in the morning.

Onlookers started arriving. First, they only gawked, fascinated by the spectacle of a trailer sitting on top of a minibus. Goodness, how did it get there! Later, their attention moved downto the woman trapped inside the minibus. "Look," said one onlooker. A beautiful girl was trapped in her seat. She was still conscious. "She is fine, then," said another onlooker. "Comeon," said the first onlooker. "A heavy trailer is sitting on her minibus, so how can she be fine?" When the onlookers became a crowd, they tried to push the trailer off the minibus.

They failed. Then a big van appeared...

QUESTIONS

a) Put this extract in its immediate e) context. **(4mks)**

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b) Give the character traits of the following: **(6mks)**

i) The man

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ii) The onlookers

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iii) The drivers

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c) From elsewhere in the novel, how does conflict arise between Kimani and Asiya overthe death of their daughter? **(4mks)**

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d) How is dialogue significant in this excerpt? **(4mks)**

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e) Explain one stylistic device used in the extract. **(2mks)**

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f) "The hour was ten in the morning." Rewrite this statement beginning with **(1mk)**

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g) Explain the meanings of the following words as used in the excerpt. **(3mks)**

i) Gawked

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ii) Fascinated

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iii) Conscious

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3. Read the narrative below and answer the questions that follow. (20 marks)

THE WISE MAN AND HIS SONS

A long time ago there was a wise old man who was respected throughout Kenya because of his wisdom.

When he grew old and feeble and realized that his days were coming to an end, he called his six sons to his bedside to deliver his will.

'My dear sons,' he said, 'I am growing weak and old, and one of these days am going to die and leave you to take care of my wealth and perpetuate this family. I have great confidence in you, but I want to warn you that unless you live in unity and harmony you could easily get destroyed by your enemies.'

'We promise you father,' they replied, 'that we shall live in unity, and we shall uphold the respect you gained over the years, and we shall take care of this family and defend our property.'

'Once upon a time,' he began, 'cows lived in the wilderness like other wild beasts. They grazed in the jungle in large herds and were not afraid of the other animals. But they were constantly attacked by the other strong beasts like lions, leopards, elephants and when the cows realized that they could not live in peace in the jungle, they decided to seek help from men. They all agreed to live under the protection of men except for three stupid sister cows. Their names were Ndune (Red), Nyange (White), and Nguno (hornless). Ndune was as red as ochre and her eyes were fierce and had sparks like fire when she was angry. Her horns were long, sharp, and strong and she could scare any beast. Ndune was loved by her sisters dearly. Nyange had a white coat, as white as snow. She also had fierce horns, but looked more peaceful than Ndune, and was not so much feared, but when she was angry her white fur became whiter, and blinding to other animals. Nguno looked like a clown without horns, and annoyed other animals who regarded her as an abnormal creature of God who should not be attacked.

'I think you know this story,' he said

'Yes,' they replied, 'but please continue, father.'

'One day lion, who was very clever, decided to divide the three sister cows, kill them one by one, and eat them. Lion had tried to catch them before. But the three cows had fought and killed many beasts. Nyange and Nguno would charge their assailant from back and front while Ndune would come from the side and, with her sharp fierce horns, fierce the enemy's stomach, tear it open, and kill him instantly. Lion could not kill any of them unless he divided them and attached them separately.

'So one day the clever lion went and spoke to Ndune. He told her that she was respected in the jungle for her fierce horns and her beautiful red coat. He told her that if she lived apart from her sisters she would never be attacked by anyone. She would be made the duchess of the whole jungle kingdom. Her sisters were very ugly and annoying and that is why the three of them were constantly attacked. Ndune was very much tempted to leave her sisters when she heard what the clever lion told her. Next the lion went to Nyange and praised her beauty. He told her that she was born a peacemaker because of her white coat, and that she should have spent much of her time seeking peace in the jungle. He told her that if she left her fierce and domineering sister Ndune, and also avoid the company of her monstrous and abnormal sister Nguno, then lion would make her the beauty queen of the jungle and find her a good husband there. Nyange was flattered and started to think about the idea of living apart from her sisters.

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'Finally the lion went to see Nguno. He told her that she was the most peaceful cow that ever existed, and that she was highly respected for her elegant hornless head. It was risky on her part to live with her sisters who were constantly attacked by savage beasts because of their fierce horns and their provocative coats. Lion promised to protect Nguno if she deserted her sisters at once. Nguno, who was getting tired of fighting ceaseless battles was happy about this friendly gesture, and at once decided to desert her sisters without pausing to think it over.'

'No sooner did she leave her sisters than she was caught by lion and killed.

'Nyange also slipped away from Ndune the following day and went to look for lion so that she could be made the jungle queen of beauty. She too was caught and killed. Now Ndune was left alone, and she was also caught and killed. That was the fate of the three stupid cows. Had they continued to live together in unity, they would have lived.'

'It is a very good story, father,' said the six sons,' and it has a great lesson in it. We shall continue to live in unity.''

Good, my sons,' the old man continued, 'I am very pleased to hear that, and I know that you will not let me down. I have one more example to show you, come closer.' At this point he showed them six sticks, equal in size. He gave one to each of the sons. 'Break them in two, please,' he commanded. The sons broke the sticks at one go. He asked them to break them into smaller bits, and this they did. Then he produced a bundle to his sons, and asked to pass it to one another, to examine it closely and see how it was bound. Then he asked them to break the bundle, and they all tried one after the other. None of them could manage to break the bundle, and he took it back intact.

'You see, my sons,' each one of you is like these cows or these sticks,' he said. 'If you are not united you will be destroyed like the three cows that were devoured by lion, or like the six sticks you have just destroyed. But if you stay together like this bundle of sticks, you will defeat your enemies, and you will be able to protect your property and sustain this family.'

'Yes, father,' replied his sons, 'unity is strength and we shall always remain united.'

Questions

a) Identify any three features of an oral narrative found in this story. **(3mks)**

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b) Identify and classify the two types of narratives in this story. **(2mks)**

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c) What tactic does the lion use to separate the cows? **(2mks)**

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d) Briefly describe the character trait of the three cows. **(3mks)**

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e) Give two reasons why the old man uses the two illustrations to make his point clear instead of using one. **(3mks)**

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f) Give two sayings, one similar to and one contrasting to the one used in the story. **(2mks)**

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g) Identify and show the effectiveness of any two styles in the story; apart from the one in (f) above. **(2mks)**

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h) How would you make rendition of this narrative lively? **(2mks)**

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i) Which are the social-economic activities of the given community? **(1mk)**

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4. GRAMMAR (15 MARKS)

A. Rewrite the following sentences according to the instructions given after each. Do not change the meaning. (4mks)

i. As soon as Jude entered, James left. (Begin: No sooner…)

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ii. The little rascals ran round the ragged slope. (End: …rascals)

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iii. Why did the prefects do such a thing! (Rewrite in passive)

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iv. The man was arrested. His cattle destroyed the maize in the school farm. (Rewrite as one sentence.)

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B. Use the most appropriate form of the verb in brackets (2marks)

i. What **……**the children doing when you last saw them? (to be)

ii. I **…….**appreciate his jokes. They were not funny. (to do)

C. Complete each of the following sentences using the correct phrasal verb formed from the word given in brackets. (4mks)

(i) Kipchoge **.....** of the marathon race due to his injury. (pull)

(ii) The county fire brigade **.....** the fire after few hours. (put)

(iii) It is clear from her looks that Jenny**……..... .....**her mother. (take)

(iv) The youths should**.....** to adults for guidance. (look)

D. Use the correct collective nouns in the following sentence (3mks)

i. The evening party was beautiful by the**……** of colours.

ii. The guest of honour was given a **……..**of flowers.

iii. She put a**……** of salt in her food.

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E. Explain the meaning of the underlined expressions. **(2mks)**

i) Jeffrey will tidy up the room <u>when pigs begin to fly</u>

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ii) My grandmother has <u>green fingers.</u>

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EXCELLING STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

ENGLISH

PAPER 3 (101/3)

FORM THREE (3)

Time: 2 ½ Hours

INSTRUCTIONS TO THE CANDIDATES

- Answer three questions only
- Questions **one** and **two** are **compulsory**
- In question three choose only one of the optional set texts you have prepared on.
- Where a candidate presents work on more than one optional text, only the first one to appear will be marked
- Each of your essays must not exceed **450** words.
- All answers are to be written in the answer booklet provided.

EXAMINERS USE ONLY

Question	Maximum score	Candidates' score
1	20	
2	20	
3	20	
Total score	60	

Q1. IMAGINATIVE COMPOSITION (COMPULSORY)

Either

a) Write a composition ending:

…from that day, whenever I see him my heart is filled with bitterness. **(20mks)**

Or

b) Technological advancement has impacted negatively on society, especially on the youth. Discuss **(20mks)**

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Q2. COMPULSORY SET TEXT

'Our Greatest enemies are those close to us.' Support this statement from **The Samaritan by John Lara**.

(20marks)

Q3. OPTIONAL SET TEXT

i)

'Artist of The Floating World'

Loyalty is key in any organizational setup. Drawing illustrations from "artist of the floating world", Discuss.

(20mks)

ii) A Silent Song and Other Stories

People with admirable traits stand out. Basing your illustrations on Vrenika Pather's *Ninema*, Write an essay to validate this assertion. **(20Mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

GEOGRAPHY (312/1)

PAPER 1

FORM THREE (3)

Time: 2 ¾ Hours

Instructions to candidates

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

(b) This paper has **two** sections: **A** and **B**

(c) Answer **all** the questions in section **A**

(d) Answer **question 6** and any other **two** questions from section **B**

(e) All answers **must** be written in the answer booklet provided.

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

For Examiner's Use Only

Section	Questions	Candidate's Score	Maximum Score
A	**1 – 5**		**25**
B	**6**		**25**
			25
			25
	Total Score		**100**

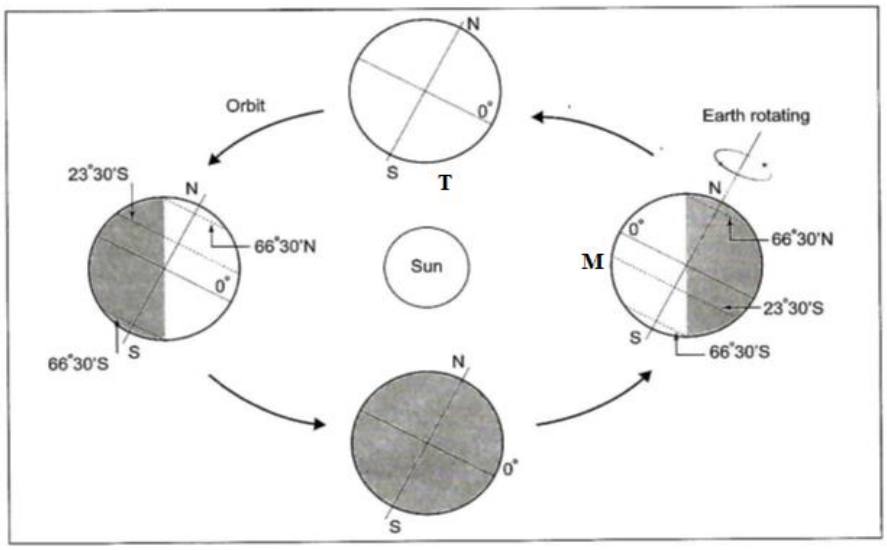
SECTION A

Answer ALL questions in this section.

1.(a) What is a natural satellite? **(2mks)**

(b) The diagram below shows different positions of the earth during the revolution. Use it to answer the questions that follow.

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(i) Give the date when earth is at position marked **T** at midday. **(1mk)**

(ii) Identify the seasons experienced when earth is at position marked **M**. **(2mks)**

2.(a) Differentiate between sial and sima. **(2mks)**

(b) Give **three** characteristics of the upper mantle. **(3mks)**

3.(a) Give **two** types of folds. **(2mks)**

(b) State **three** effects of folding on physical environment. **(3mks)**

4.(a) What is Karst scenery? **(2mks)**

(b) Give **three** ways in which a spring may be formed. **(3mks)**

5.(a) Give **two** agents of weathering. **(2mks)**

(b) State **three** factors that cause soil creep**.** **(3mks)**

SECTION B

*Answer question **6** and any other **two** questions*

6.Study the map of Nyeri 1:50,000 (Sheet 120/4) provided and answer the following questions.

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

(ii) Give the **two** scales that have been used in the map extract. **(2mks)**

(iii) Measure the length of the road D435 from the chiefs centre to grid square 7154. Give your answer in km. **(2mks)**

(iv) Calculate the area of Aberdare forest to the south of northing 50. Give your answer in Km^2 **(2mks)**

(b) (i) Identify the methods that have been used to represent relief in the area covered by the map. **(2mks)**

(ii) Give the physical features found in the grid square 7564. **(2mks)**

(iii) Apart from forest, give **two** other types of vegetation in Nyeri map. **(2mks)**

(c) Describe the drainage of the area covered by the map. **(6mks)**

(d) Citing evidence from the map, name **three** economic activities in the area covered by the map. **(6mks)**

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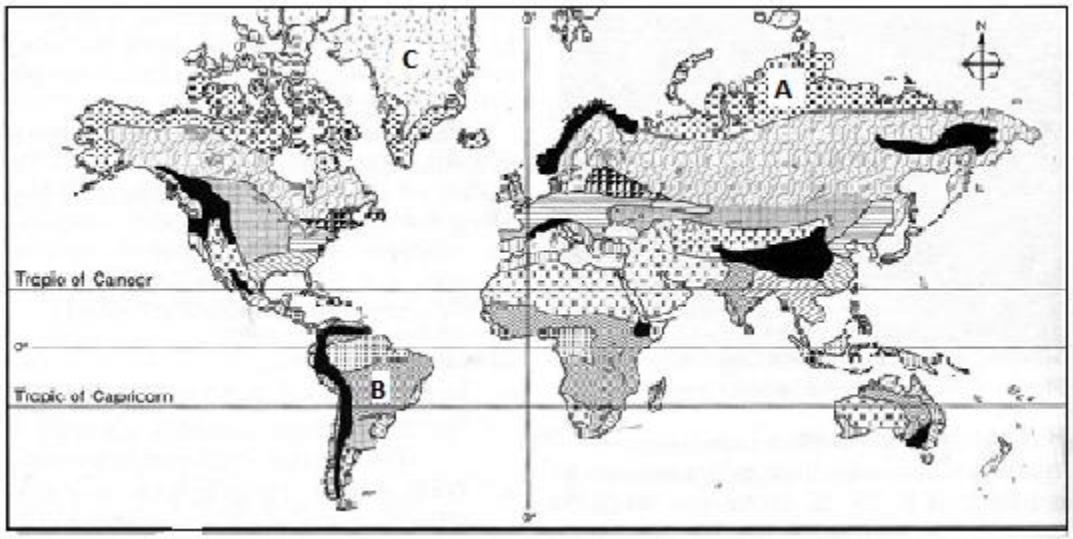
7. (a)(i) What is derived vegetation? **(2mks)**

(ii) State **three** ways in which relief influences vegetation. **(3mks)**

(b) (i) A part from forests, name **two** other vegetation zones in Kenya. **(2mks)**

(ii) Give **three** categories of forests in Kenya. **(3mks)**

(c) The diagram below shows major vegetation zones of the world.



(i) Identify the vegetation zones marked **A**, **B** and **C**. **(3mks)**

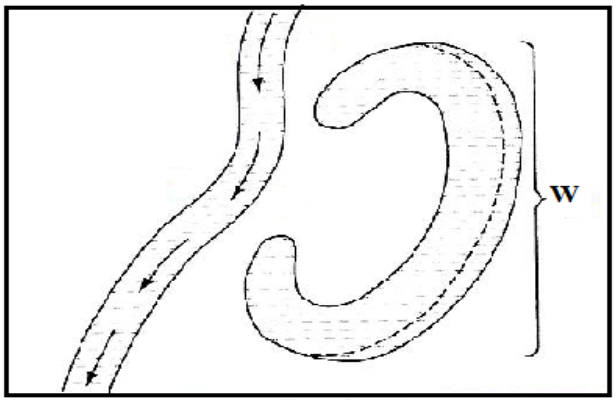
(ii) State **four** characteristics of the vegetation in the zone marked **B**. **(4mks)**

(d) Explain **four** significance of vegetation to human activities. **(8mks)**

8.(a) Differentiate between a river discharge and river regime. **(2mks)**

(b) Describe **three** ways through which a river transports its load. **(6mks)**

(c) The diagram below shows a section of a river. Use it to answer the questions that follow



(i) At what stage of development is this section of the river? **(1mk)**

(ii) Name **two** rivers in Kenya along which the feature marked **W** is found. **(2mks)**

(iii) Describe how the feature marked **W** is formed. **(6mks)**

(d) Members of your class plan to carry out a field study on a river within the county.

(i) Give **two** reasons why you would prepare a working schedule. **(2mks)**

(ii) State **four** significance of depositional features of a river your likely to identify during the study. **(4mks)**

(iii) Give **two** follow up activities you would be involved in. **(2mks)**

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9.(a) (i) Identify **two** types of desert surfaces. **(2mks)**

(ii) State **three** factors that have contributed to development of deserts. **(3mks)**

(b) Describe **two** ways in which wind transports its load in arid areas. **(4mks)**

(c) Using well labeled diagrams, describe how the following features are formed.

(i) Zeugen **(5mks)**

(ii) Rock pedestal **(5mks)**

(d) Explain **three** economic benefits of desert landforms. **(6mks)**

10. (a)(i) What is a glacier? **(2mks)**

(ii) Apart from a valley glacier, name **two** types of ice masses found on mountains in East Africa. **(2mks)**

(b) Explain how the following factors influence the movement of glacier.

- Gradient of the land. **(2mks)**
- Nature of the surface. **(2mks)**

(c) Describe how a hanging valley is formed. **(4mks)**

(d) Explain **four** positive effects of glaciation in lowland areas**.** **(8mks)**

(e) Your class is to carry out a field study on land use on glaciated lowlands.

(i) Give **three** preparations you would make for your field study. **(3mks)**

(ii) List **two** erosional features you are likely to identify during the study. **(2mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

GEOGRAPHY (312/2)

PAPER 2

FORM THREE (3)

Time: 2 ¾ Hours

INSTRUCTIONS TO STUDENTS

- *This paper has **TWO** sections **A** and **B***
- *Answer **ALL** the questions in section **A**. In section **B** answer questions **6** and any other **TWO** questions.*
- *All answers **MUST** be written in the answer booklet provided.*

SECTION A

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

1.(a) Define the term Geography **(2mks)**

(b) Give ***three*** reasons why Geography is taught in Kenya. **(3mks)**

2.(a) What is agroforestry? **(2mks)**

(b) Mention three reasons why agroforestry is encouraged in Kenya **(3mks)**

3.(a) Differentiate between horticulture and market gardening. **(2mks)**

(b) State ways in which the government is using to control locust invasion in Kenya. **(3mks)**

4.(a) Name ***two*** counties where maize is grown in Kenya **(2mks)**

(b) State ***three*** conditions necessary for Maize farming. **(3mks)**

5.(a) Explain the factors that have led to the increasing demand for fresh fruits and vegetables in Kenya. **(5mks)**

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SECTION B

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

6. The table below shows Kenyan exports by destination in Ksh. Million between 2008 – 2010. Use it to answer question (a).

Region/year	**2008**	**2009**	**2010**
Europe	94,685	100,975	109,422
America	22,055	18,961	24,380
Africa	116,995	162,732	188,914
Asia	57,241	59,236	81,600
Others	206	3,044	5,225

(a)(i) In which year were Kenya's exports highest? **(1mk)**

(ii) Using a radius of 5cm, draw a pie chart to represent the data on Kenya's exports in 2009. **(8mks)**

(iii) State *two* advantages of using pie charts to represent data. **(2mks)**

(b) Give reasons why horticultural farming is more developed in the Netherlands than in Kenya. **(6mks)**

(c) Mention major cash crops grown in Kenya **(4mks)**

d) Identify four characteristics of plantation farming in Kenya **(4mks)**

7.(a) Name *two* by-products obtained when crude oil is refined. **(2mks)**

(b) State *three* ways in which mining derelicts can be reclaimed. **(3mks)**

(c)(i) Give *two* uses of Gold. **(2mks)**

(ii) Identify *three* problems facing gold mining in South Africa. **(3mks)**

(iii) Describe the processing gold. **(5mks)**

(d)(i) Name *two* alluvial mining methods. **(2mks)**

(ii) Explain *four* ways in which soda ash mining contributes to the economy of Kenya. **(8mks)**

8. Study the photograph shown and answer the questions that follow



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(a) (i) What type of a photograph is this ? Give justification for your answer. **(3mks)**

(ii) Which type of a forest is this **?** **(1mk)**

(b) Draw a rectangle measuring 12 cm by 10cm to represent the photograph .On the rectangle mark and label three main features . **(5mks)**

(c) Explain six reasons why Kenya should conserve her forests. **(12mks)**

(d) Give the differences between forestry in Kenya and Canada under the following sub-headings.

(i) Tree harvesting **(2mks)**

(ii) Transportation of logs. **(2mks)**

9.(a) Name *two* counties in Kenya where wheat is grown in large scale **(2mks)**

(b) State *five* physical conditions that favour wheat growing in the Kenya. **(5mks)**

(c)(i) Describe coffee growing in Kenya from planting to harvesting. **(6mks)**

(ii) State *four* problems facing coffee farming in Kenya. **(4mks)**

(d) Explain *four* measures taken by the government of Kenya to improve beef cattle farming. **(8mks)**

10.(a)(i) What is nomadic pastoralism? **(1mk)**

(ii) Name two nomadic communities in Africa. **(2mks)**

(b) State five characteristics of nomadic herding. **(5mks)**

(c) Give four problems facing nomadic pastoralism. **(4mks)**

(d) Highlight three undertakings by the government of Kenya aimed at improving the livestock industry. **(3mks)**

(e) Discuss how cattle ranching contribute to the economy of Kenya. **(5mks)**

(f) State at least three features of ranching. **(3mks)**

(g) Give at least two problems facing pastoral communities in Kenya today. **(2mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

HISTORY AND GOVERNMENT (311/1)
PAPER 1
FORM THREE (3)
Time: 2½ Hours

INSTRUCTIONS TO CANDIDATES

A) This paper consists of three sections: **A, B** and C
B) Answer **ALL THE QUESTIONS** from section **A** in the spaces provided, THREE QUESTIONS from section B and **TWO QUESTION** from section **C** in the foolscaps provided.
C) Students should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

FOR EXAMINER'S USE ONLY

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

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

1.Give one branch in the study of history and government. **(1mk)**

2.Identify two natural factors that caused the Abagusii to migrate from Mount Elgon region to present homeland. **(2mks)**

3. Name one community in Kenya which had a central system of ruling during pre-colonial period. **(1mk)**

4.State two factors that led to the spread of Islam in Kenyan coast in1600 AD. **(2mks)**

5.Give the main reason why most of the early urban centers along the Kenyan coast were built on islands. **(1mk)**

6.State two categories of people eligible for registration as Kenyan citizens. **(2mks)**

7.Identify two ways in which Kenyan constitution promote National Unity **(2mks)**

8.Give one way in which indirect democracy is exercised in Kenya. **(1mk)**

9.State the main duty of the governor during the British colonial rule in Kenya. **(1mk)**

10. Identify two ways in which construction of the Kenya Uganda railway speeded up colonization of Kenya . **(2mks)**

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11. State two roles of civilians during the struggle for independence in Kenya. **(2mks)**

12. Name the first African to be appointed as minister in Kenya. **(1mk)**

13. What was the main contribution of Thomas Joseph Mboya to the history of Kenya**.** **(1mk)**

14. State two qualifications that a person must fulfil in order to be allowed to register as a voter. **(2mks)**

15. Name an officer in charge of elections at constituency level. **(1mk)**

16. Identify two types of Bills that are discussed in Kenyan parliament. **(2mks)**

17. Give one special court in Kenya. **(1mk)**

SECTION B (45 MARKS)

Answer any three questions in this section

18. a. State three functions of Njuri Ncheke among the Ameru. **(3mks)**

b. Explain six results of interaction between the Bantu and Cushites in the pre-colonial period. **(12mks)**

19. a) Identify five factors that influenced Akamba to participate in the long-distance trade **(5mks)**

b) Discuss **five** factors led to the decline of Portuguese rule in the Kenyan Coast by the end of 18th century**.** **(10mks)**

20. a) Give five reasons which enabled the Nandi to resist for a long period of time. **(5mks)**

b) Describe five problems faced by Africans in urban centers during the colonial period in Kenya. **(10mks)**

21. a) Identify three methods used by trade unionists to demand for their rights during the colonial period.**(3mks)**

b) Explain six achievements made by early political association formed in Kenya before 1939 **(12mks)**

SECTION C (30 MARKS)

Answer any two questions in this section

22. a) State three reasons why the government of Kenya may limit the freedom of movement **(3mks)**

b) Explain six importance of national integration in Kenya. **(12mks)**

23.a) Identify five challenges faced in constitution making process in Kenya. **(5mks)**

b) Describe five rights of an arrested person in Kenya. **(10mks)**

24. a) Give three functions of the secretary to the cabinet in Kenya. **(3mks)**

b) Discuss six factors that undermine the administration of justice in Kenya**.** **(12mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

HISTORY AND GOVERNMENT PAPER TWO (311/2)

FORM THREE (3)

Time: 2½ Hours

Instructions to candidates:

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

b) Answer all the questions in section A, three questions from section B and two questions in section C.

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

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

e) Answer all questions in English.

For Examiner's use only

SECTION A	SECTION B			SECTION C		TOTAL
1-17						

SECTION A (25 MARKS) Attempt all the questions from this section.

1. State the **main** reason for studying social history. **(1mk)**

2. Mention the first crop to be domesticated in the world. **(1mk)**

3. State **two** factors that facilitated scientific revolution in in Europe. **(2mks)**

4. Give **two** factors that distinguish man from other primates**.** **(2mks)**

5. Name **one** form of monarchical government. **(1mk)**

6. Identify **two** uses of wind as a source of energy. **(2mks)**

7. State the **main** function of the golden stool in the Asante Empire. **(1mk)**

8. State **two** economic effects of Chimurenga war. **(2mks)**

9. Name **one** commune in Senegal where the policy of assimilation succeeded. **(1mk)**

10. What is the **main** advantage of a cell phone? **(1mk)**

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11. Identify **one** political development in South Africa between 1990 and 1994. **(1mk)**

12. Mention **one** country in Africa that was not colonized by European powers**.** **(1mk)**

13. State **two** factors for the growth of Meroe as an early urban center in Africa. **(2mks)**

14. Give **two** functions of chiefs in Zimbabwe during the colonial period**.** **(2mks)**

15. Identify **one** treaty signed between Lewanika of Lozi Kingdom and the British. **(1mk)**

16. Name **two** classifications of human rights**.** **(2mks)**

17. Identify **two** French colonies in Central Africa. **(2mks)**

SECTION B (45 MARKS) Attempt any three questions from this section.

18. a) State **three** disadvantages of hunting as an economic activity by early human beings. **(3mks)**

b) Explain **six** effects of early agriculture on people's way of life. **(12mks)**

19.a) Give **five** factors for the development of the Trans – Saharan trade. **(5mks)**

b) Explain **five** results of the development of railway transport in Europe up to the end of the 19th Century. **(10mks)**

20. a) Highlight **five** European activities in Africa during the 19th Century. **(5mks)**

b) Explain **five** effects of the Madinka resistance against the French invasion in the 19th Century. **(10mks)**

21.a) State **five** causes of the Maji-Maji rebellion. **(5mks)**

b) Explain **five** reasons why African communities were defeated by the Germans during the Maji Maji rebellion. **(10mks)**

SECTION C (30 MARKS) Attempt any two questions from this section.

22. a) Outline **five** factors that led to the rise of Shona kingdom before the 19th Century. **(5mks)**

b) Describe the political organization of Asante Empire in the pre-colonial period. **(10mks)**

23. a) State **three** ways used by the nationalists in Ghana to fight for independence. **(3mks)**

b) Explain **six** challenges which were faced by the nationalists in South Africa during the Apartheid rule. **(12mks)**

24. a) State **five** factors which influenced the British to use indirect rule in Northern Nigeria. **(5mks)**

b) Explain **five** differences between the British and French systems of administration. **(10mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

HOME SCIENCE (441/1)

FORM THREE(3)

Time: $2\frac{1}{2}$ *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 in section **C**

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

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

g.Students should answer the questions in English

For examiner's use only

Section	Question	Maximum Score	Student's Score
A	21	40	
B	22	20	
C		20	
		20	
TOTAL SCORE		100	

SECTION A: (40 marks)

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

1.Give **two** reasons for covering food when cooking. **(1mk)**

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2.Identify **four** groups of people who are more susceptible to tuberculosis (TB) infection. **(2mks)**

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3.Mention **two** qualities of a well-made machine fell seam. **(2mks)**

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4.State **two** ways avoiding worm infestation. **(2mks)**

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5.Give **two** ways the current drought may affect consumers. **(2mks)**

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6.Mention **four** reasons for laundering clothes. **(2mks)**

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7.State **three** qualities of children's play clothes. **(3mks)**

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8.Give **two** qualities of good firewood. **(1mk)**

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9.Highlight **two** ways of reducing spread of infection when taking care of a child with chickenpox. **(2mks)**

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10. Suggest **three** dangers of careless sex amongst young people. **(3mks)**

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11. Mention **four** ways of finishing of the lower edge of a girl's pair of shorts decoratively. **(2mks)**

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12. Highlight **two** precautions to observe when planning meals for vegans. **(2mks)**

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13. Give **two** uses of a seam ripper in sewing**.** **(1mk)**

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14. Give the meaning of the following terms in cookery. **(3mks)**

i.Course

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ii.Entrée

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iii.Saute

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15. Name **four** pockets that can be found on a shirt/blouse. **(2mks)**

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16. Suggest **two** factors that can predispose a person to diabetes. **(1mk)**

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17. State **two** diseases that can be spread by a cook through careless handling of food. **(1mk)**

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18. Highlight **two** ways of caring for a kitchen bin. **(2mks)**

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19. Mention **two** qualities of a good food storage store. **(2mks)**

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20. Give **two** disadvantages of clothes made from cotton. **(2mks)**

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21. Suggest **two** reasons for weaning a baby. **(2mks)**

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SECTION B: (20 marks)

COMPULSORY

Answer question 22 in the spaces provided after the question

22. Your elder sister is preparing for her traditional wedding ceremony.

a.Describe the procedure you will follow to launder loose coloured lesso to be used to cover her on that day. **(9mks)**

b. Outline the procedure for cleaning the calabash for use on that day. **(4mks)**

c.Give the procedure you will follow to clean the polished three legged stool to be used for the ceremony. **(7mks)**

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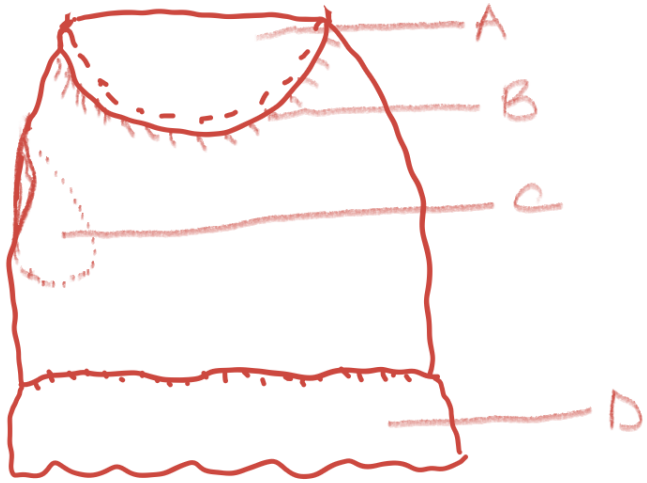
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SECTION C: (40 marks)

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

23. Use the diagram of the skirt below to answer the questions that follow:



a. Label the features labelled A to D. **(4mks)**

b. Mention **two** possible ways of finishing the top of the skirt. **(2mks)**

c. List **three** ways of finishing of the lower edge other than using feature D. **(3mks)**

d. (i) Name the seam used in joining feature A to the skirt. **(1mk)**

(ii) Outline **four** qualities of this seam when well-made. **(4mks)**

e. Give **three** rules to observe when working feature B. **(3mks)**

f. Briefly explain **three** qualities of a well-made feature C. **(3mks)**

24.

a. Explain **four** qualities of a good charcoal iron. **(4mks)**

b. Highlight **five** advantages of machine washing over hand washing. **(5mks)**

c. Discuss **three** points to consider when buying washing equipment for laundry. **(6mks)**

d. Outline **five** advantages of drying clothes on a clothes line. **(5mks)**

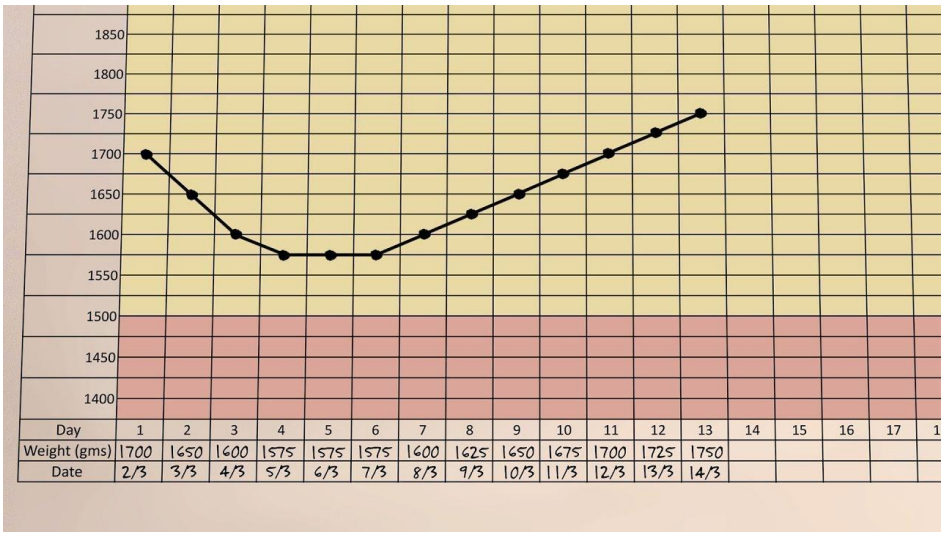
25.

a. Highlight **four** dangers of rising obesity in the population. **(4mks)**

b. Discuss **three** qualities of a good kitchen work surface. **(6mks)**

c. Study the baby growth chart graph below and answer the questions that follow.

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Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	1
Weight (gms)	1700	1650	1600	1575	1575	1575	1600	1625	1650	1675	1700	1725	1750					
Date	2/3	3/3	4/3	5/3	6/3	7/3	8/3	9/3	10/3	11/3	12/3	13/3	14/3					

i.Discuss **three** factors that could have led to the phenomena observed in day 1 to 4 of the baby's life**.(6mks)**

ii. Mention **four** dangers of the trend between day 1 to day 4 if this was a monthly record. **(4mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

HOME SCIENCE (441/2)

PAPER 2

CLOTHING AND CONSTRUCTION

FORM THREE (3)

Time: 2½ Hours

Instructions to candidates

This paper consists of 3 printed pages

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

GIRL'S SKIRT

A pattern of a girl's skirt is provided. You are advised to study the sketches, instructions and layout carefully before you begin the test.

MATERIALS PROVIDED

1.PATTERN PIECES

- **A.** Skirt back
- **B.** Yoke [front]
- **C.** Lower skirt [front]
- **D.** Front waistband
- **E.** Back waistband
- **F.** Frill
- **G.** Pocket

2.Plain light weight cotton fabric 56 cm long by 90 cm wide.

3.Sewing thread to match the fabric

4.One large envelope.

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THE TEST

Using the materials provided, cut out and make the left half of the girl's skirt to show the following processes;

a) Cutting out. **(20½mks)**

b) Making of the dart at the back skirt. **(5½mks)**

c) Joining of the yoke front to the lower skirt front using an overlaid seam. **Do not trim**.

Neaten half of the seam using loop stitches. **(12mks)**

d) Preparation and attaching of the patch pocket **(9mks)**

e) Attaching of the frill to the lower skirt front using a plain seam.

Do not trim the seam allowance. **(10mks)**

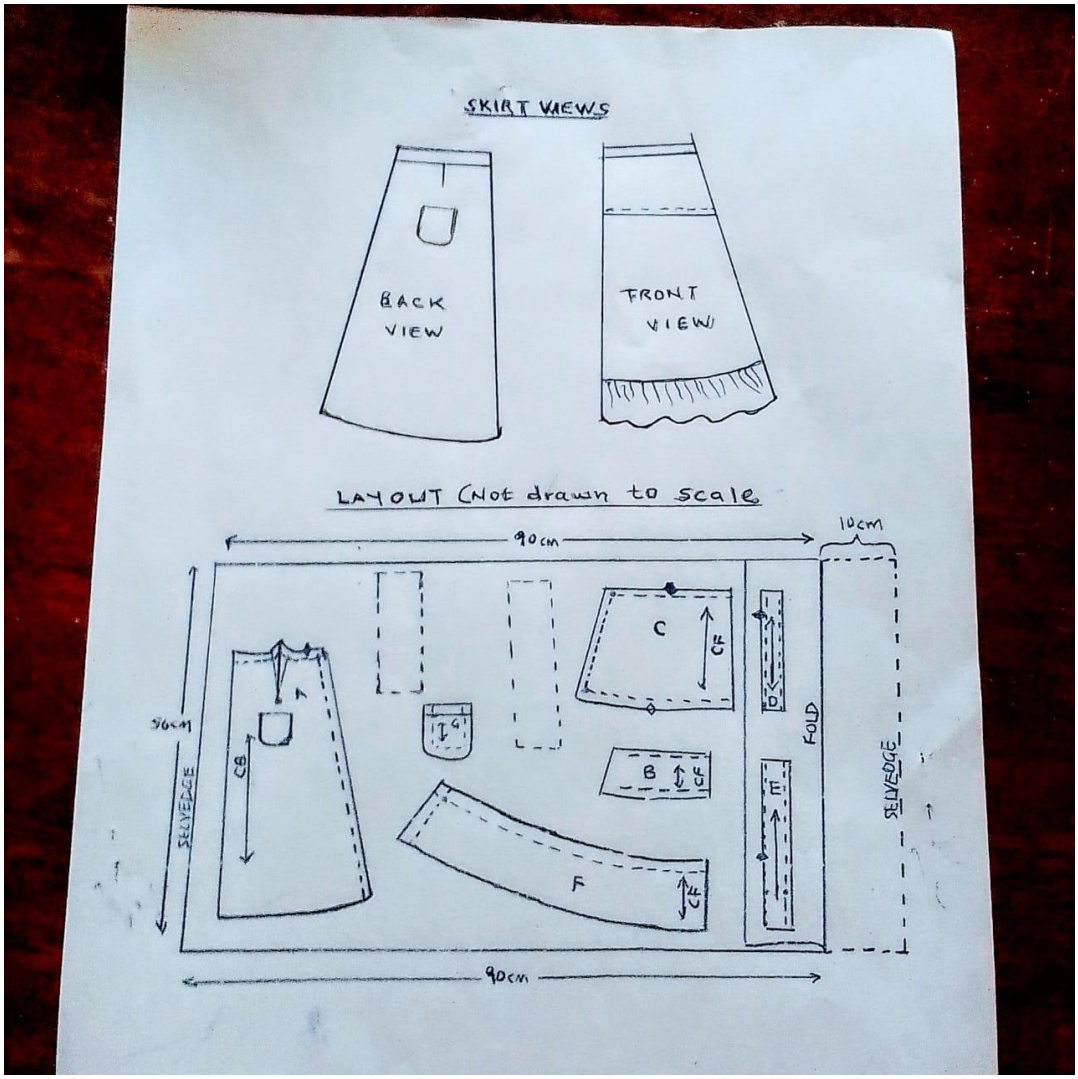
f) Making of the skirt side seam from the yoke to the hemline using an open seam. **(7mks)**

g) Attaching of the front and back waistbands and holding them in place using even tacking stiches. **(20mks)**

OMIT

h) The management of the skirt hem

i) Overall presentation **(6mks)**



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EXCELLING STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

HOME SCIENCE (441/3)

FORM THREE (3)

Time: $1\frac{3}{4}$ *Hours*

PLANNING; 30 MINUTES
PRACTICAL TEST SESSION; 1 ¼ HOURS

INSTRUCTION TO CANDIDATES

1.Read the test carefully
2.Write your name and admission number on every sheet of paper used
3.Textbooks and recipes may be used during the planning session as reference materials
4.You will be expected to keep to your order of work during the practical session
5.You are allowed to take away ONLY your reference materials at the end of the planning session
6.You are not allowed to bring additional noted to the practical session.

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THE TEST

You are visiting your grand mother over the holiday and you are to prepare supper. Using all the ingredients listed below, prepare, cook and present a suitable meal for the two of you. In addition, prepare a beverage for your grandmother.

INGREDIENTS

Irish potatoes/maize meal
Beef/green grams
Sugar
Oil/Cooking fat
Carrots
Salt
Onion
Tea leaves/cocoa
Tomatoes
Green leafy vegetable
Milk

PLANNING SESSION- 30 MINUTES

Use separate sheets of paper for each tasks listed below and a carbon paper to make duplicate copies. Then proceed as follows:

1.Identify the food items and write down their recipes.
2.Write down your order of work
3.Make a list of foodstuff, materials and equipment you will require.

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EXCELLING STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

ISLAMIC RELIGIOUS EDUCATION (314/1)

PAPER 1

FORM THREE (3)

Time: 2 ½ Hours

INSTRUCTIONS:

1. This paper contains six (6) questions.
2. Answer any FIVE questions
3. Write your answers in the answer sheet provided.
4. All answers must be in English.

1 a) Describe the background to the revelation of Surah *Al-Fiil*. **(5mks)**
b) Identify four modes of *wahyi*. **(4mks)**
c) With reference to surah An-Nur, describe the Islamic teachings on morality. **(11mks)**

2. a) Discuss the significance of compilation of the Quran. **(8mks)**
b) Explain six circumstances that led to the standardization of the Quran. **(12mks)**

3.a) Identify five subject matter of *Hadith Qudsi*? **(5mks)**
b) Explain any seven methods used by Prophet Muhammad (P.B.U.H) to teach and spread Hadith. **(7mks)**
c) The prophet said "Seeking knowledge is obligatory to every Muslim". With reference to this Hadith highlight the benefits of seeking knowledge. **(8mks)**

4. a) State the qualities of a *Mujtahid* **(7mks)**
b) Explain the significance of *shahada* in the life of a Muslim **(7mks)**
c) Why are Muslims encouraged to visit Madina after *Hajj* or *Umra*? **(6mks)**

5.a) Distinguish between *zakatul Maal* and *Zakaatul Fitr* **(10mks)**
b) Explain five roles of Hadith as a source of *shariah*. **(10mks)**

6.a) Mention the manifestations of *Shirk* in the society. **(7mks)**
b) Identify five other terms used in the Qur'an to refer to the Day of Resurrection. **(5mks)**
c) Describe the duties of an Imam. **(8mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

ISLAMIC RELIGIOUS EDUCATION (314/2)

PAPER 2

FORM THREE (3)

Time: 2 ½ Hours

INSTRUCTIONS

ANSWER ANY FIVE QUESTIONS.

1.a) Discuss the rationale behind the prohibition of slander in Islam. **(6mks)**
b) Elaborate the ways in which prostitution has affected the society today. **(7mks)**
c) Mention six Islamic manners of walking. **(7mks)**

2.a) State seven benefits of waiting a will before a Muslim die. **(7mks)**
b) What are the conditions to fulfill for the agreement to be valid. **(6mks)**
c) Identify seven unlawful acts in business transactions. **(7mks)**

3.a) State seven rights according to a customer. **(7mks)**
b) Identify six rights of a woman/girl in Islam. **(6mks)**
c) State seven teachings on acquisition of wealth in Islam. **(7mks)**

4.a) Explain the circumstances which led to Muslims migrate to Yathrib. **(6mks)**
b) Discuss the problems faced by Abu Bakar as a caliph. **(10mks)**
c) Outline factors that made kabaka Mutesa's rule assist in the spread of Islam in Uganda . **(4mks)**

5.a) Give the administration reforms of Abdul-Malik bin Marwan. **(7mks)**
b) Enumerate the allegations that were raised against Uthman. (R.A.) **(6mks)**
c) List the roles of Akidas and Jumbes in the spread of Islam in Tanzania **(7mks)**

6.a) Outline ten reforms brought by the Sokoto caliphate under uthman. **(10mks)**
b) Enumerate ten rules of conduct by imam fihazali. **(10mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

JINA: …….

SHULE: ……

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

MUHULA WA TATU

KISWAHILI INSHA

KIDATO CHA TATU (3)

KARATASI YA KWANZA (102/1)

MUDA: SAA 1 ¾

MAAGIZO KWA MTAHINIWA:

1) Andika jina lako, nambari ya mtihani na tarehe katika karatasi ya majibu.

2) Karatasi hii ina maswali manne.

3) Jibu maswali mawili pekee.Kila swali lina alama 20.

4) Swali la kwanza ni la lazima. kisha chagua swali la pili kutoka miongoni mwa matatu yaliyosalia.

5) Majibu yote yaandikwe katika lugha ya Kiswahili.

KWA MATUMIZI YA MTAHINI PEKEE

SWALI	UPEO	ALAMA
1.	20	
2.	20	
3.	20	
4.	20	
JUMLA	40	

1.Wewe ni mhariri wa Gazeti la Tujijenge . Andika tahariri ukieleza namna ya kupambana na umaskini unaokithiri katika kaunti mbalimbali nchini.

2.Serikali haina budi kupunguza mishahara ya watumishi wa umma wa ngazi za juu iwapo maendeleo ya nchi yatafanikiwa. Jadili

3.Andika insha itakayoafikiana na methali. ‘Baniani mbaya kiatu chake dawa’.

4. Endeleza kisa hiki

``*Nisamehe baba. Nilipotoshwa. Sitarudia kitendo kama hiki cha kukufedhehesha tena. Sitakaidi tena makanyo yako.''Nilijikuta nimepiga magoti mbele ya babangu huku mama akinipanguza damu iliyokuwa ikinitoka baada ya ….*

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EXCELLING STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

JINA: …….

SHULE: ……

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

MUHULA WA TATU

KIDATO CHA TATU (3)

KARATASI YA PILI (102/2)

MUDA: SAA 2 ½

Maagizo;
Karatasi hii ina maswali manne
Majibu yote yaandikwe katika nafasi ulizopewa

A.**UFAHAMU (ALAMA 15)**
Soma kifungu kifuatacho kisha ujibu maswali

Kijiji cha Matumaini kilikuwa na utulivu wa aina yake.Mwakio alikuwa miongoni mwa wazaliwa wa eneo hili.Katika miaka ya tisini alikuwa ameanza safari yake ya masomo ya Shule ya Msingi ya Majaliwa. Enzi hizo mshawasha na imani za watu zilihusu tu maswala ya elimu.
Mwakio alifurahishwa na utangamano wa kijiji chao.Watu walishirikiana kazini,sherehe za harusi, matanga aghalabu shughuli ya mtu iligusa mwigine.Anakumbuka vizuri ngoma zilizopigwa katika sherehe mbalimbali na wanakikundi cha 'Akali' wakiongoza ilkuwa burudani ya aina yake.Na je, baragumu lilipulizwa na Achwari kuwaita watu kununua nyama na kujuza watu kuwa fulani ameaga? Kwa kweli Matumaini kilikuwa kijiji chenye ufanisi.
Kando na hayo, vyakula walivyokuwa navyo hasa samaki waliovuliwa katika mto Anyako hususan kamabare walikuwa na ladha ya kupendeza. Mwakio alifurahia sana samaki wa kukaushwa ,'***kerewa'*** namna wanakijiji wavyoiita. Huyu alikuwa chaguo lake, mamake alipopika siku hiyo basi ukamilifu ulijaa moyoni mwake.Mwakio alitumai atakapooa, basi mkewe ni sharti afahamu kuwa ***'kerewa'*** ndicho chakula chake. Mto huu pa ulikuwa kitovu cha michezo ya kitoto , ulikuwa na vivukio vitatu , kwa Alaki, kwa Nikola na kwa Bobobo.Kidimbwi kizuri cha kupiga mbizi kilikuwa kivukio cha Nikola .Vivukio hivi viliitwa majina haya kutokana na mwenye ardhi palipo kivukio hicho.Mazingira ya pale pia yalimpendeza .Hili humfanya akumbuke hadithi aliyosoma katika chuo kikuu ya E. Kezilahabu kuhusu Mayai Wazuri wa Maradhi wakiogolea mtoni. Enzi hizo miaka ya tisini mwanzo , mtu hakujisumbua na lazima lazima za sabuni. Mradi umeona maji ,kulikuwa na mawe ya kusugua mguu pale mtoni ,wengine wangetumia mchana nayo sabuni ilkuwa hariita au matawi ya mti walioita 'sabuni ya wazee '.Yaani wakati huo binadamu alitumia mali asili kwenye shughuli zake za kila siku. Leo hii anapojitia marashi na mkewe kumkumbusha aina za sabuni nzuri, hucheka pasi yeyote kutambua kiini cha kicheko hiki.
Je, ukarimu nao wa wanakijiji?Enzi hizo wangu walisaidiana. Anakumbuka babake akiwaalika wanakijiji katika sherehe tu za burudani. Atoka akiongea burudani huku wengine wakila na kunywa.***Bangaradesi*** mmoja wa wanakijiji angecheza wimbo wa Atoka kwa miondoko yote. Huo ndio ukamilifu uliokuwepo .Anakumbuka wagema wawili waliofahamika sana, Akongo na Majimaji alikuwa rafiki wa dhati wa babake .Kila mara babake

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angetaka kuonja kinywaji,Mwakio angeshika njia hadi kwake.Pombe aliyoenzi sana ni ***chang'aa*** .Akongo alikuwa mmoja wa wagema wapenzi wa babake, alipotumwa kununua pombe, kila mara Akongo angempa kiasi kwenye gilasi kama mbinu ya kukumbusha ukamilifu wa mwanamume Matumaini kwani waliokosa kunywa walionekana wanyonge katika jamii.Ukweli ni kuwa Mwakio alionja zote , hata zingine kubugia.Lililompiga mshipa kila mara ni habari ingewafikia walimu wake , hilo tu lingempa kwaheri ya masomo.

Katika shughuli zote , Mwakio alishauriwa na mamake kutilia maanani masomo.Ni kutokana na hali hii akaamua kupea masomoni kwa matumaini ya kuajiriwa na vilevile kufaa kijiji chake.

Ni miaka kumi na mitano baada ya Mwakio kutimiza ndoto yake. Leo hii ni mkurugenzi wa matibabu katika mojawapo wa hospitali nchini.Hatua zake za mwanzo alizofanya ni kuenda kuwafaa wenzake na wanyonge kijijini, hususan wale waliosoma nao ambao hawakufaulu kielimu.Amefadhili wanafunzi wengi mayatima hadi shule ya upili. Ndoto yake ya kufaa kijiji chake ni ule ustaarabu na ujamaa ndiyo ilikuwa azma yake.Gari alilonunua aghalabu humsaidia yeyote mwenye safari dharura au hata mgonjwa.Kwa kuwa anafanya kazi mjini , yeye hupenda kuwaletea kanga.Kwa miaka mitano tu, jina lake lilienea na kutawala Matumaini na kuvuka mipaka zaidi . Japo babake ameaga , amewahi kuita kikundi cha wacheza ngoma cha 'Alaki' katika hafla ya kumbukuka babake.

Kwa kweli , malezi aliyopata kwa msingi wa ujamaa ni tiyara inayompeperusha .Kila atokapo mjini yeye husalimia aghalabu kila jirani yake.Mapeni yakiwa mfukoni hakosi kumwauni mwenye tabu.Lakini sasa , Mwakio ameanza kusadiki kisa alichokisoma kwenye riwaya ya Said Ahmed ya Utengano kuwa hakuwa kijichobadilika ila mabadiliko yenyewe.Mwakio amejipata tu ni yeye anayegonga mlango watu kuwajulia hali. Hata majirani waliofaana naye hawajali. Kutia msumari kwenye kidonda ni kuwa ukarimu wake umekuwa mada ya minong'ong'ono kijijini.

Alipotangaza kuwania udiwani hakujua kuwa ilikuwa ni mbinu ya kuchunguza uafanisi wake. Juzi amepata habari kuwa kuna baadhi ya wanaodai kuwa yeye ni mwizi wa mali ya umma. Wengine wanadai ana mazingaombwe. Ajabu ni kuwa wanaodai kuwa aila yake haijawahi kuwa kiongozi hata mzee wa kijiji ,hivyo basi hana nafasi pale. Kinachomkata maini zaidi ni kuna vidudu watu wanaopiga simu mjini kuchunguza kitovu cha hela zake. Lililomfikisha hatua ya leo ni kuwa kuna wale wanaokejeli mamake kuwa muuza mboga tu atawezaje kuzaa kiongozi ?Lo! Dunia ni hadaa amesalimu amri!

Maswali

a) Onyesha namna usasa na ukale umejitokeza kwenye kifungu hiki. **(alm2)**

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b) Fafanua namna suala la kinyume limeendelezwa na mwandishi? **(alm5)**

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c) Thibitisha kuwa jamii hii ina ustaarabu**.** **(alm2)**

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d) Tambua matatizo manne katika jamii hii**.** **(alm4)**

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e) Eleza msamiati ufuatao kama ulivyotumika katika kifungu. **(alm2)**

i. Kwaheri ya masomo

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ii. amesalimu amri

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B.MUHTASARI (ALAMA 15)

Soma kifungu kifuatacho kisha ujibu maswali:

Katika kipindi cha miaka 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 janga linaendelea kutokota.Tunafahamu kuwa kupanda bei ya petroli kimtaifa kumechangia kuongezeka kwa bei ya vyakula kwa namna moja hadi nyingine.

Mbali na vyakula , gharama ya kupanga nyumba , maji ,stima na mafuta imepanda kwa miezi mitatu iliyopita kati ya Disemba na Januari 2017.Kwa mujibu wa Benki ya dunia iliyozinduliwa hivi majuzi, kupanda kwa bei ya vyakula kumesukuma familia nyingi katika lindi la umaskini.

Ingawa serikali haina uwezo wa kuthibitishia baadhi ya sababu zinazochochea kuongezeka kwa bei ya chakula 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 katika vikao vyao vya hadhara wanasiasa wanatumia muda mwingi kuzungumzia masuala ya kugawanya wananchi na kufichua njama za kuwaangamiza wapinzani wao badala ya kueleza namna watakavyokabiliana na janga lililopo la njaa? Ni lini watafahamu kwamba hauwezi 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 kama sukari ,unga, mafuta ya kupikia na kadhalika.

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

a)Ukizingatia taarifa uliyosoma ,fafanua athari za mfumuko wa bei kwa wananchi .(maneno 35-40) **(alm7)**

Mtarayisho

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Jibu

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b) Eleza mambo muhimu anayozungumzia mwandishi katika aya za mwisho nne.(maneno 60-65) **(alm8)**

Matayarisho

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Jibu

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C. **MATUMIZI YA LUGHA (ALAMA 40)**

a) Bainisha aina vivumishi katika sentensi hii **(alm2)**

Nyumba yangu ni maridadi.

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b) Eleza matumizi ya kwa katika sentensi hii **(alm1)**

Aliimba kwa sauti tamu.

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c) Andika kwa wingi **(alm1)**

Pahala hapa ni pake.

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d) Eleza matumizi ya na katika sentensi **(alm3)**

Halima na Asha wanasaidiana.

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e) Huku ukitoa mfano , eleza miundo mitatu ya majina katika ngeli ya LI-YA **(alm3)**

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f)Onyesha ;

i) kielezi

ii) kitenzi katika sentensi **(alm2)**

Mvua ilinyesha mfululizo.

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g)Kanusha sentensi hii**.** **(alm2)**

Tumechukua nguo chache kuuza.

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h) Tumia –ndi pamoja na viashiria vya ngeli kujaza mapengo **(alm2)**

i) Wewe ----------ninayekutafuta.

ii) Nyinyi ---------- maoongoza.

i)Andika sentensi hii upya kwa kufuata maagizo **(alm2)**

Nilikuwa nimejitayarisha vizuri kwa hivyo sikuona ugumu wowote katika safari yangu.

Anza ;Safari

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j) Geuza vitenzi viwe majina **(alm2)**

i)Shukuru

ii) Enda

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k) Eleza maana mbili tofauti za sentensi hii

Mamake Juma na Mariamu walitutembelea . **(alm2)**

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l) Eleza maana ya **;** **(alm2)**

i)Sina pa kuweka uso wangu

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ii) Ana mkono wa buli

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m) Changanua sentensi ifuatayo ukitumia mshale **(alm4)**

Mkulima mzembe amepata hasara.

n) Andika katika msemo wa taarifa. **(alm2)**

"Sitadhubutu kumpa pesa zangu, " Mkolwe alisema.

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o) Tunga sentensi **(alm1)**

i)Agizi

ii) Hisishi

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p) Tunga sentensi moja kubainisha kishazi huru na kishazi tegemezi **(alm2)**

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q) Bainisha yambwa na chagizo katika sentensi ifuatayo: **(alm2)**

Zumari alimtunzia Keto watoto kwa upendo.

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r) Mzee Pumu ni mraibu wa vileo.Baada ya muda watoto wake wawili wanakuwa watumizi sugu wa vileo.Andika methali inayoweza kutumiwa kuelezea hali hii **(alm1)**

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s) Bainisha silabi katika neno ; wanyweshavyo **(alm1)**

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t)Unganisha sentensi hizi ukitumia kiunganishi cha kinyume. **(alm2)**

Wananchi walikabiliwa na hatari.

Wananchi waliendelea kuwaokoa majeruhi.

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SEHEMU D: ISIMU JAMII (ALAMA 10)

1. Eleza sifa tano za sajili ya vijana. **(alm5)**

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2. Eleza sababu tano zinazomfanya mtu kufanya makosa ya matamshi na sarufi katika mazungumzo yake**. (alm5)**

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MWISHO

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EXCELLING STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

JINA: …….

SHULE: ……

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

MUHULA WA TATU

KIDATO CHA TATU (3)

KARATASI YA TATU (102/3)

MUDA: SAA 2 ½

MAAGIZO;

a. Swali la kwanza ni la lazima

b. Usijibu maswali mawili kutoka sehemu moja

c. Jibu jumla ya maswali manne

d. Kila swali ni alama 20

e. Tumia lugha ya Kiswahili

SEHEMU YA A:USHAIRI (ALAMA 20)

Swali la lazima

Soma shairi kisha ujibu maswali

Angawa mdogo dagaa, amekomaa
Kaanga kidogo, atakufaa
Kalia kinaya, h'ondoa njaa

Wa kwako udogo, kijana sio balaa
Na sio mzigo ,kijana bado wafaa
Toka kwa mtego ,kijana sinyanyapaa

Nasaha kidogo, kijana ukubwa jaa
Jikaze kimbogo, kijana wacha kukaa
Chimbua mhogo, kijana usibung'aa
Na wake udogo, dagaa hajambaa
Kuliko vigogo ,dagaa hajambaa
Hapati kipigo ,dagaa hauna fazaa

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Maisha si mwigo, kijana ushike taa

Sihofu magego. Kijana nawe wafaa

Kazana kidogo, kijana kugagaa

Maswali

a) Lipe shairi hili anwani mwafaka **(alm2)**

b) Eleza arudhi zilizofuatwa katika shairi hili **(alm4)**

c) Onyesha jinsi malenga alivyotumia uhuru wake**.** **(alm3)**

d) Tambua bahari katik shairi hili kwa kutegemea;

i) Vipande vya msihororo

ii) Mpangilio wa vina

iii) Idadi ya mishororo **(alm3)**

e) Andika ubeti wa tatu kwa lugha ya nathari **(alm3)**

f) Tambua mbinu za lugha zilizotumika katika shairi. **(alm3)**

g) Eleza toni ya shairi hili **(alm2)**

SEHEMU YA B: Hadithi ya Mapambazuko na machweo na hadithi nyingine

2.”Ondoa wasiwasi mhibaka ,***you are in very safe hands*** .Usiulize maswali , its okay. Tulikuja sote jana baada ya ***dance*** , umesahau hivi?’

i) Fafanua muktadha wa dondoo hili. **(alm4)**

ii) Taja na ueleze mbinu za lugha zinazojitokeza katika dondoo. **(alm4)**

iii) Jadili madhara ya pombe katika jamii kama inavyodhihirika katika hadithi ya Kila mchezea wembe**.** **(alm12)**

Au

3. Eleza matatizo yanayomkumba mtoto wa kike kwa mujibu wa hadithi ya Sabina. **(alm20)**

SEHEMU YA YA C: Tamthilia ya Bembea ya maisha na Timothy Arege

4. Tambua nafasi ya mwanamke jinsi alivyoshughlikiwa na mwandishi katika Tamthilia hii.. **(alm20)**

AU

5. ’Ulimwengu umeendelea sana”

a)Weka dondoo katika muktadha wake**.** **(alm4)**

b) Fafanua sifa sita za msemaji. **(alm6)**

c) Eleza kwa nini huku kwa msemaji hakujaendelea. **(alm10)**

SEHAMUA YA D: Fasihi simulizi

6.a) Taja na ufafanue hatua zozote nne za utafiti nyanjani kwa mfuatano wake. **(alm8)**

b)Tambua baadhi ya changamoto ambazo mtafiti anaweza kumbana nazo akiwa nyanjani **(alm8)**

c) Data iliyohifadhiwa kwa njia ya maandishi inafisha vipi uhalisia wa Fasihi simulizi? **(alm4)**

Mwisho

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EXCELLING STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

MATHEMATICS (121/1)
PAPER 1
FORM THREE (3)
Time: 2 ½ Hours

INSTRUCTIONS TO CANDIDATES

(a) Write your name and index number in the spaces provided at the top of this page.
(b) Write your school name, sign and write the date of the examination in the spaces provided above.
(c) This paper consists of **Two** sections: **Section I** and **Section II**
(d) Answer **ALL** questions in Section I and **any five questions** from Section II
(e) Show all the steps in your calculations, giving your answers at each stage in the spaces provided below each question.
(f) Marks may be given for correct working even if the answer is wrong.
(g) Non-Programmable silent electronic calculators and KNEC Mathematical Tables may be used.
(h) Candidates should check the question paper to ensure that all the pages are printed as indicated and no questions are missing**.**
(i) Candidates should answer the questions in English**.**

For Examiners' Use Only

SECTION I

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

SECTION II

17	18	19	20	21	22	23	24	Total

Grand Total	

SECTION I (50 Marks)

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

1.Use logarithms only to evaluate to 4 decimal places: **(4mks)**

$$\left(\frac{0.7089 \times 124.5}{(86.73)^2}\right)^{\frac{1}{3}}$$

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2.Evaluate without using tables or calculators. **(3mks)**

$$\sqrt[3]{\frac{\left(\sqrt[3]{27}\right)^2 \times \left(\sqrt[4]{16}\right)^3}{243}}$$

3.Three tellers in a bank can each serve a customer in 42 seconds, 56 seconds and 84 seconds respectively. Determine the shortest time, in minutes they can take to serve a total of 117 customers. **(4mks)**

4.A tourist exchange X US dollar for Kenya shillings on arrival in Kenya. She spent in Kenya for some days and paid Ksh 45 600 for her expenses. She later left the country and exchanged the remainder back to US dollars. She went back with 1200 US dollars.

Given that the dollar buys and sells as shown in the table below.

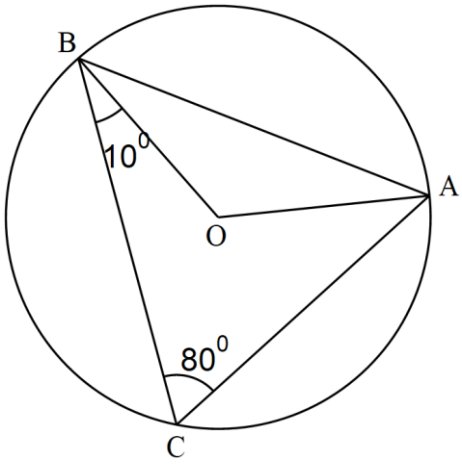
Currency	Buying	Selling
1 US dollar	Kshs 98.36	Kshs 98.54

Find the value of X to the nearest dollar **(3mks)**

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5.Mr. Abdiaziz 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. Abdiaziz would make if he does not give a discount. **(3mks)**

6.In the figure given below (not drawn to scale), O is the centre of circle. If $\angle BCA = 80^0$ and $\angle CB0 = 10^0$.



Determine the size of $\angle$CAB. (3 marks)

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7.Solve the inequality below and represent the solution on a number line. **(3mks)**

$$5 - 2x < \frac{1}{2}x \leq \frac{x+2}{3}$$

8.The heights of two similar pails are 12 cm and 8 cm. The larger pail can hold 2 litres. What is the volume of the smaller pail? Give your answer to 2 decimal places. **(3mks)**

9.Simplify the expression: **(3mks)**

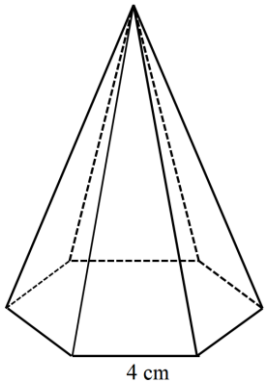
$$\frac{3a^3 - 27ab^2}{a^3 + a^2b - 6ab^2}$$

10. Determine the value of $\tan(\theta + 14^0)$ given that **(2mks)**

$$\cos\frac{1}{2}\theta^0 = \sin(3\theta - 36^0) \text{ for } 0^0 \leq \theta \leq 90^0$$

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11. The figure below shows a pyramid whose base is a regular hexagon of side 4 cm.



Calculate the volume of the pyramid correct to 3 decimal places, given its height is 10 cm. **4mks)**

12. Using a ruler and pair of compasses only,

(a) construct a rhombus KLMN whose base is the line KL provided below and angle KLM=120^0 **(2mks)**

K L

(b) Use KM and NL to calculate the area of the rhombus. **(2mks)**

13. Given that $\mathbf{OT} = -3\boldsymbol{i} + 6\boldsymbol{j} - 2\boldsymbol{k}$ and $\mathbf{OS} = 4\boldsymbol{i} + 5\boldsymbol{k}$, find $|\mathbf{ST}|$ **(3mks)**

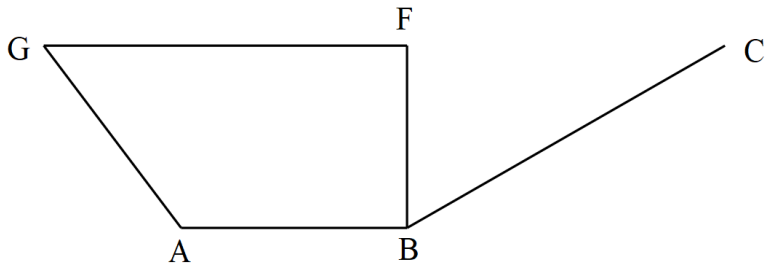
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14. Solve the following pair of simultaneous equations by substitution method. **(3mks)**

$5x - 8y = 2$
$7x + 3y = 17$

15. A sales lady earns a basic salary of Ksh 24 800 per month. In addition, she gets a 4% commission on the first Ksh 80 000 worth of goods and a further 5% commission on goods worth over Ksh 80 000. In a certain month, she sold goods worth Ksh. 200,000 Calculate her total income in that month. **(3mks)**

16. In the figure below ABFG is a uniform cross-section of a prism. BC is one of the visible edges of the prism.



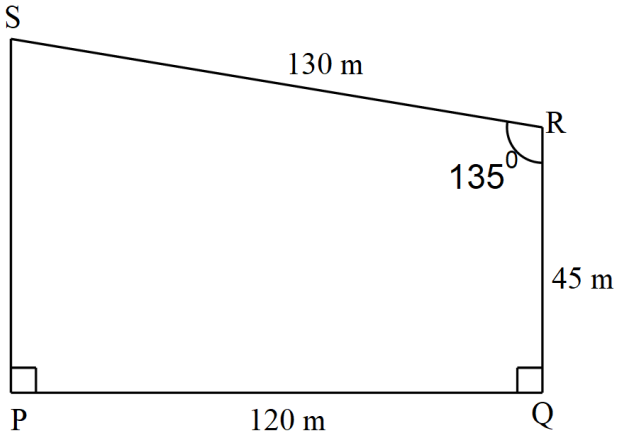
Complete the sketch of the solid showing the hidden edges with broken lines. **(2mks)**

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SECTION II (50 Marks)

*Answer **any five** questions in this section*

17. The diagram below shows a garden in the shape of a quadrilateral PQRS in which PQ=SR=120 m, QR=45 m, $\angle PQR=\angle SPQ=90^0$ and $\angle 135^0$



(a) Calculate to 1 decimal place:

(i) The size of angle QPR. **(2mks)**

(ii) The length PS **(5mks)**

(b) Calculate the area of the garden in hectares, correct to 3 decimal places. **(3mks)**

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18. The equation of line L_1 is $2x + 3y + 6 = 0$.

(a) Find the gradient of line L_1 **(1mk)**

(b) The line L_2 is perpendicular to L_1 and passes through the point P with coordinates (7, 2), find the equation of L_2 , giving the answer in the form $y = mx + c$ where *m* and *c* are constants. **(3mks)**

(c) The line L_1 and L_2 intersect at point Q. Find the coordinates of Q**.** **(3mks)**

(d) The line L_3 is parallel to l_1 and passes through point P. Find the equation of L_3 giving the answer in the form $ax + by = c$, where *a* , *b* and *c* are constants**.** **(2mks)**

(e) Determine the coordinates of the x intercept of the line L_3. **(1mk)**

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19. Three towns P, Q and R are such that Q is 120km on a bearing of 060^0 from P. R lies on a bearing of 120^0 from P. The bearing of R is 165^0 from Q.

(a) Using the scale of 1 cm to represent 20 km, show the relative positions of P, Q and R. **(3mks)**

(b) Use the scale drawing in (a) above to determine:

(i) The distance of R from P. **(2mks)**

(ii) The bearing of P from R. **(1mk)**

(c) Two police patrol cars leave P and Q such that the one from P travels due east while the one from Q travels due south. The two cars meet at S.

(i) On the scale diagram, locate S **(2mks)**

(ii) Measure the distance of S from R. **(2mks)**

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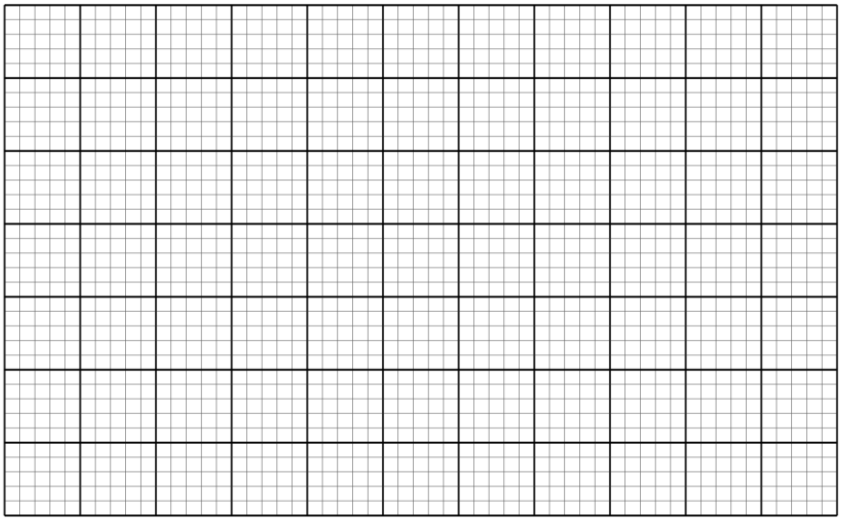
20. The height of a number of students was recorded in the table below. Each measurement is given to the nearest cm.

Height(cm)	Mid-point (x)	Frequency (f)	fx
138 – 142	140	3	420
143 – 147		8	
148 – 152		12	
153 – 157		20	
158 – 162	160	30	4800
163 – 167		14	
168 – 172		7	
173 – 177		4	
178 – 182	180	2	360
		$\Sigma f =$	$\Sigma fx =$

(a) Complete the table. **(3mks)**

(b) Use the completed table to calculate the mean height of the students. **(2mks)**

(c) Draw a histogram to represent the information. **(2mks)**



(d) Use the histogram above to estimate the median height. **(3mks)**

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21. The distance between two towns Athi River town and Busia town is 750 km. A minibus left town Athi River at 8.15 a.m. and traveled towards Busia at an average speed of 90 km/h. A matatu left Busia at 10.35 a.m. on the same day and traveled towards Athi River at an average speed of 110 km/h.

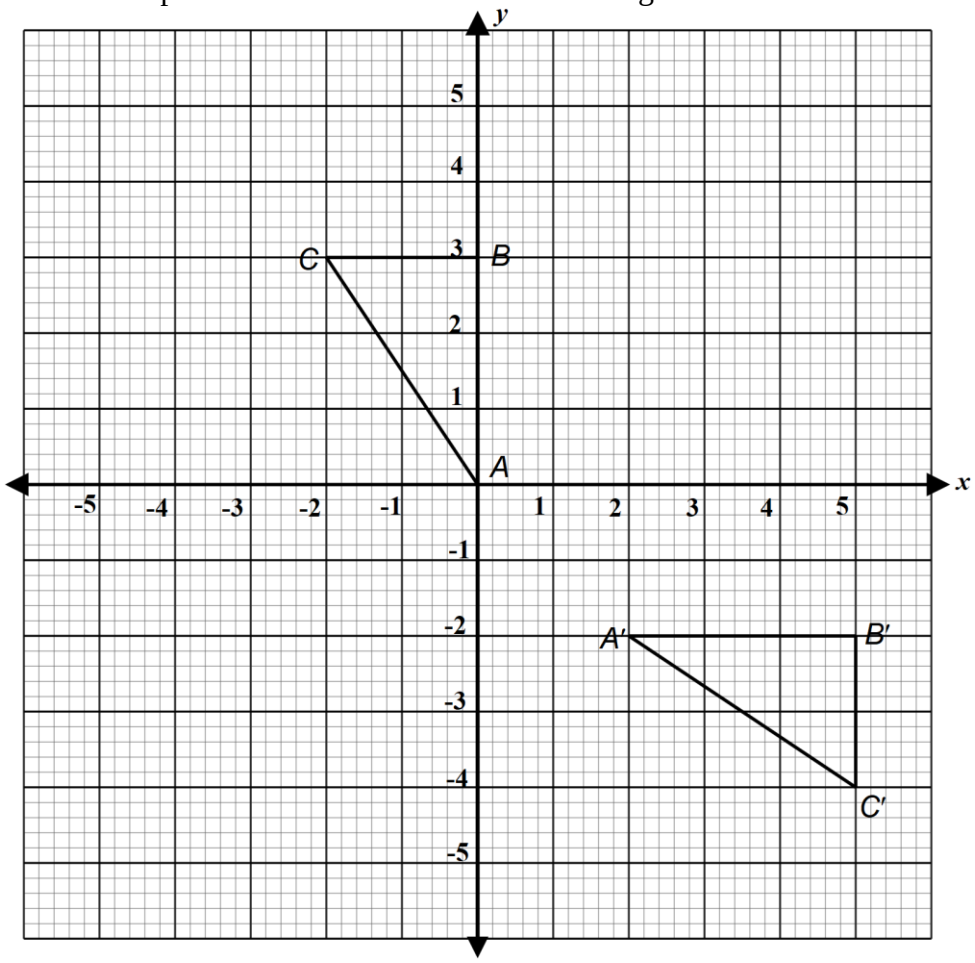
(a) (i) How far from Athi River did the two vehicles meet? **(5mks)**

(ii) At what time of the day did the two vehicles meet? **(1mk)**

(b) A motorist starts from his home at 10.30 a.m. on the same day and traveled at an average speed of 120 km/h. He arrived at the same time as the minibus. Calculate the distance from Busia to his home.**(4mks)**

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22. The cartesian coordinate plane below shows ΔABC and its image $\Delta A'B'C'$ under a transformation **T**.



(a) Describe fully the transformation **T** fully. **(3mks)**

(b) $\Delta A''B''C''$ is the image of $\Delta A'B'C'$ under a rotation $+90^0$ about (0, 0). On the same axes, draw $\Delta A''B''C''$ and state its coordinates **(3mks)**

(c) $\Delta A'''B'''C'''$ is the image of $\Delta A''B''C''$ under an enlargement of scale factor -1 about (0, 0) Draw $\Delta A'''B'''C'''$. **(2mks)**

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(d) Name two pairs of triangles that are oppositely congruent. **(2mks)**

23. (a) Find the quadratic equation whose roots are $\frac{-3}{4}$ and $\frac{2}{3}$ and write it in the form $ax^2 + bx + c = 0$ where a, b and c are integral values. **(3mks)**

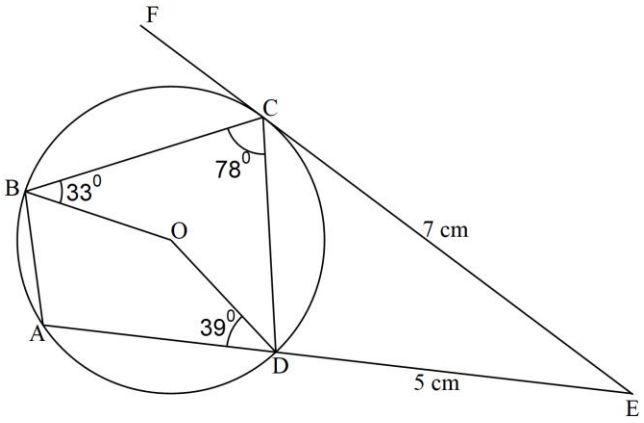
(b) The length of a floor of a rectangular hall is 9 m longer than its width. The area of the floor is 136 m^2. Calculate the perimeter of the floor. **(4mks)**

(c) Solve the quadratic equation below by completing the square, correct to 3 decimal places. **(3mks)**

$\frac{1}{2}x^2 - \frac{7}{3}x + \frac{3}{4} = 0$

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24. In the figure below, O is the centre of the circle, $\angle ADO = 39^0$, $\angle OBC = 33^0$ and $\angle ECD = 45^0$. EC is a tangent to the circle at C.



(a) Calculate, giving reasons

(i) $\angle CDE$ **(3mks)**

(ii) Reflex $\angle BOD$ **(3mks)**

(iii) $\angle BDC$ **(2mks)**

(b) Given that EC=7 cm and DE = 5 cm, calculate the length of AD **(2mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

MATHEMATICS (121/2)
PAPER 2
FORM THREE (3)
Time: 2 ½ Hours

INSTRUCTIONS TO CANDIDATES

(a) *Write your name and index number in the spaces provided at the top of this page.*
(b) Write your school name, sign and write the date of the examination in the spaces provided above.
(c) This paper consists of **Two** sections: **Section I** and **Section II**
(d) Answer **ALL** questions in Section I and **any five questions** from Section II
(e) Show all the steps in your calculations, giving your answers at each stage in the spaces provided below each qst.
(f) Marks may be given for correct working even if the answer is wrong.
(g) Non-Programmable silent electronic calculators and KNEC Mathematical Tables may be used.
(h) Candidates should check the question paper to ensure that all the pages are printed as indicated and no questions are missing**.**
(i) Candidates should answer the questions in English**.**

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SECTION I

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

SECTION II

17	18	19	20	21	22	23	24	Total

Grand Total	

SECTION I (50 Marks)

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

1.The dimensions of a rectangular coffee plantation are 600 m by 150 m. If they are measured to the nearest 100 m and 10 m respectively, calculate the percentage error in the area of the plantation. **(3mks)**

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2.The expression below is a perfect square, where b is a constant.

$25x^2 - bx + \frac{1}{9}$

Find the value of b. **(2mks)**

3.Without using a calculator or mathematical tables, write the expression below in the form $p + q\sqrt{r}$, where p, q and r are integers. **(3mks)**

$$\frac{3}{2-\sqrt{3}} + \frac{2}{\sqrt{3}+2}$$

4.PQ, QR and PR are boundaries of a piece of land such that Q is 472 m on a bearing $N70^0W$ from P. Town R is directly south of P. The distance between P and R is 600 m. Calculate the distance QR correct to 2 decimal places. **(4mks)**

5.Solve for θ in the trigonometric equation below

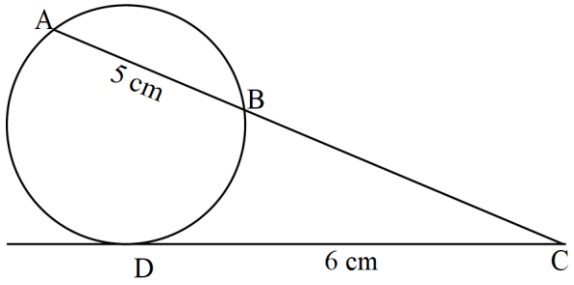
$2\cos(3\theta + 30^0) = -1$ for $0^0 \leq \theta \leq 360^0$ **(4mks)**

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6. $\boldsymbol{B} = \begin{pmatrix} 3 & 2 \\ 2 & 2 \end{pmatrix}$ and $\boldsymbol{C} = \begin{pmatrix} 9 & -3 \\ 2 & 1 \end{pmatrix}$. If $\boldsymbol{A}$ is a square matrix of order 2 and $\boldsymbol{AB} = \boldsymbol{C}$, determine matrix $\boldsymbol{A}$ **(3mks)**

7. A school buys a bus at Kshs. 3 758 000. The bus depreciates as follows: by 10% at the end of the first year, by 15% at the end of the second year and by 20% in the subsequent years after the second year. Calculate the value of the bus at the end of the fourth year. Give the answer to the nearest Ksh. 100. **(3mks)**

8. In the figure below (not drawn to scale), CD is a tangent to the circle at D. CD = 6 cm and AB = 5 cm.



Calculate AC **(2mks)**

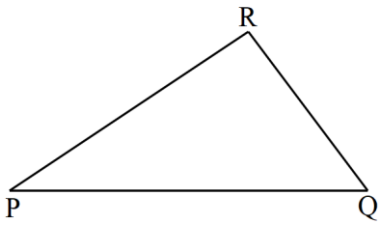
9. Without using a mathematical table or a calculator, simplify **(3mks)**

$$\frac{\log 49 + \log 7}{2\log 7 - \log 343}$$

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10. Using a ruler and a pair of compasses only in this question.

(a) On the triangle PQR below, draw a circle that touches the side QR externally at exactly one point. **(2mks)**



(b) Measure its radius. **(1mk)**

11. Make x the subject of the formula **(3mks)**

$$p = \frac{qx}{\sqrt[3]{m + tx^3}}$$

12. The cash price of a bicycle is set as Kshs. 13,800. Osketo opts to buy the bicycle on hire purchase terms by paying a deposit of Kshs. 2, 280. If simple interest of 20% per annum is charged on the balance and Osketo repays by 24 equal monthly installments, calculate the amount of each installment. **(3mks)**

13. Tap A can fill a tank in 10 minutes, tap B can fill the same tank in 20 minutes. Tap C can empty the tank in 30 minutes. The three taps are left open for 5 minutes, after which tap A is closed. How long does it take to fill the remaining part of the tank **(3mks)**

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14. Find the radius and the centre of a circle whose equation is given by $4x^2 + 4y^2 = 12x - 12y + 7$ **(4mks)**

15. (a) Expand and simplify in ascending powers of x. **(2mks)**

$\left(1 - \frac{1}{4}x\right)^5$

(b) Use the first four terms of the expansion in (a) above to approximate the value of $(0.75)^5$ **(2mks)**

16. A solid sphere of diameter 5 cm is melted and recast into a cone of height 4.5 cm. Calculate the radius of the cone correct to 2 decimal places. **(3mks)**

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SECTION II (50 Marks)

*Answer **any five** questions in this section*

17. A sugar processing company imported two types of sugar: P and Q for blending. The sugar were packed in 50 kg bags. For every 3 bags of type P, the company used 5 bags of type Q to blend.

(a) If a bag of type P costs Ksh 3 000 and a bag of type Q costs Ksh 4 000. Determine:

(i) The cost of one bag of the mixture. **(3mks)**

(ii) The selling price of a 2 kg packet of the mixture if a 20% profit was to be realized. **(3mks)**

(b) The company later decided to mix the blend of type P and Q sugar with another type R sugar which costs Ksh 4 800 per 50 kg bag. Determine:

(i) The ratio of the mixture of the blend and type R sugar that will cost Ksh 4 200 per bag. **(2mks)**

(ii) The ratio of types P, Q and R sugar in the mixture **(2mks)**

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18. Income tax is charged on monthly income at the rates shown in the table below.

Taxable Income (Ksh per month)	Tax Rate (%)
1 – 6 000	10
6 001 – 11 600	15
11 601 – 17 200	20
17 201 – 22 800	25
22 801 – 28 400	30
28 401 and over	35

Mr. Otieno is a civil servant and earns a basic salary of Ksh 21 000 per month. He is entitled to house and medical allowances of Ksh 3 500 per month and Ksh 2 080 per month respectively. He is given a personal relief of Ksh 1 056 per month and an insurance relief of 4% of his basic salary.

Calculate:

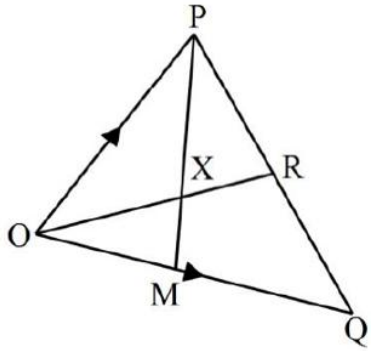
(a) Mr. Otieno's taxable income per month. **(2mks)**

(b) Mr. Otieno's Pay As You Earn. **(5mks)**

(c) Mr. Otieno's net monthly salary if he pays Ksh. 500 per month for health insurance and a loan repayment of Ksh 3, 680 per month. **(3mks)**

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19. In the figure below, **OP = p** and **OQ = q**. R is the mid-point of **PQ** and **OM:MQ** = 2:3. **OR** and **PM** intersect at X.



(a) Express the following vectors in terms of **p** and **q**.

(i) OR **(2mks)**

(ii) PM **(1mk)**

(b) If **PX** = h**PM** and **OX** = k**OR**,

(i) Express **PX** in two ways **(3mks)**

(ii) Hence find the values of h and k. **(3mks)**

(c)Find the ratio **PX: XM** **(1mk)**

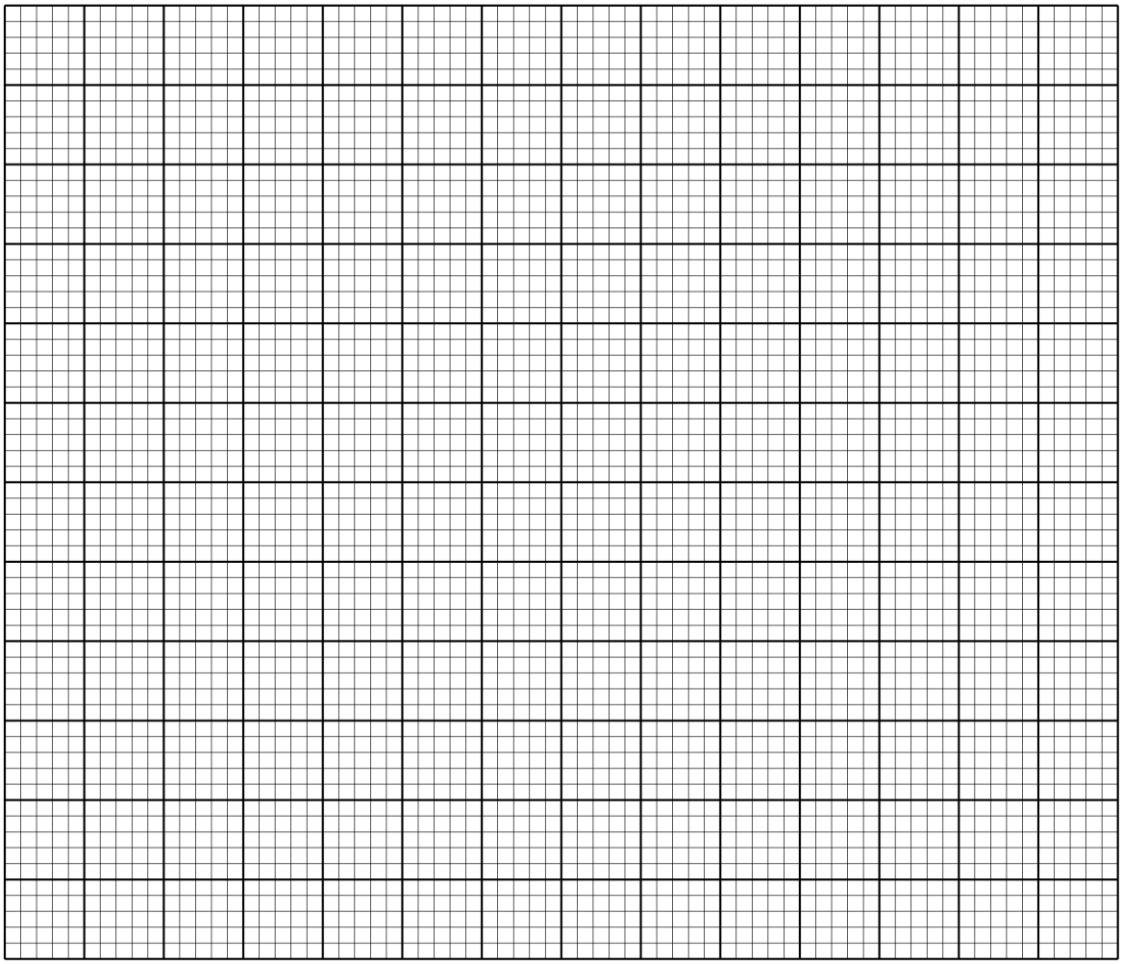
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20. (a) Complete the table below for the functions $y = -2\cos 2x$ and $y = 3\sin(2x + 30^0)$ for $0^0 \leq x \leq 180^0$

(3mks)

x^0	0	15	30	45	60	75	90	105	120	135	150	165	180
$-2\cos 2x$		-1.73	-1.00				2.00		1.00			-1.73	-2.00
$3\sin(2x + 30^0)$	1.50					0.00				-2.60	-1.50		

(b) Using the scales of 1 cm for 15^0 on the x – axis and 2 cm for 1 unit on the y – axis, draw the graphs of $y = -2\cos 2x$ and $y = 3\sin(2x + 30^0)$ for $0^0 \leq x \leq 180^0$ on the same axes. **(5mks)**



(c) Using the graphs in (b) above, solve the equation $3\sin(2x + 30^0) + 2\cos 2x = 0$ **(1mk)**

(d) Find the range of values of x for which $3\sin(2x + 30^0) \leq -2\cos 2x$ **(1mk)**

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21. A cupboard has 7 white cups and 5 brown ones all identical in size and shape. There was a blackout in the town and Mrs. Maina had to select three cups, one after the other without replacing the previous one.

(a) Draw a tree diagram to represent the above information. **(2mks)**

(b) Calculate the probability that she chooses:

(i) Two white cups and one brown cup. **(2mks)**

(ii) Two brown cups and one white cup. **(2mks)**

(iii) At least one white cup. **(2mks)**

(iv) Three cups of the same colour. **(2mks)**

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22. (a) In a geometrical progression, the sum of the second and the third terms is 12 while the sum of the third and the fourth terms is -36. Find the first term and the common ratio of the progression. **(4mks)**

(b) In an arithmetic progression, the 12^{th} term is 25 and the 7^{th} term is three times the second term. Find:

(i) The first term and the common difference. **(4mks)**

(ii) The sum of the first 12 terms of the arithmetic progression. **(2mks)**

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23. A quantity X varies partly as the square of Y and partly as Z. When $X = 13$, $Y = 3$ and $Z = 5$. Also, when $X = -5$, $Y = 1$ and $Z = 7$

(a) Find;

(i) The law connecting X, Y and Z. **(4mks)**

(ii) The value of X when $Y = 0.5$ and $Z = -10$ **(1mk)**

(b) Express Y in terms of X and Z. **(2mks)**

(c) If X and Z are each decreased by 19%, find the percentage change in Y. **(3mks)**

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24. (a) Given that matrix $\mathbf{P} = \begin{pmatrix} 15 & 20 \\ 14 & 24 \end{pmatrix}$, find $\mathbf{P}^{-1}$. **(2mks)**

(b) Two traders, Maina and Owino bought goats and sheep at Kshs. g per goat and Kshs. s per sheep. Maina paid a total of Kshs. 60,000 for 15 goats and 20 sheep while Owino paid Kshs. 4,000 more than Maina for 14 goats and 24 sheep.

(i) Form a matrix equation to represent this information. **(2mks)**

(ii) Use the inverse matrix $\mathbf{P}^{-1}$ in (a) above to find the cost of a sheep and a goat. **(4mks)**

(c) Find the total cost of 9 sheep and 10 goats by using matrices of orders 1×2 and 2×1 respectively. **(2mks)**

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EXCELLING STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

PHYSICS (232/1)
FORM THREE (3)
Time: 2 Hours

Instructions to candidates

- This paper consists of two sections ***A*** and ***B***.
- Answer **all** the questions in the two sections in the spaces provided after each question
- All working **must** be clearly shown.
- Electronic calculators, mathematical tables may be used.
- All numerical answers **should be expressed** in the **decimal** notations.
- You may use 'gravitational acceleration, g, as $10m/s^2$

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SECTION	QUESTION	MAX MARKS	CANDIDATE'S SCORE
A	1 – 13	25	
B	14	12	
	15	11	
	16	10	
	17	10	
	18	12	
	TOTAL	80	

SECTION A (25 MARKS)

1.The scale of the micrometer screw gauge below has a zero error of +0.05mm.

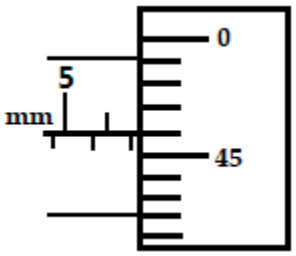


Figure 1

What is the actual reading of the micrometer screw gauge? **(2mks)**

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2.In a ball and ring experiment, the ball goes through the rings at room temperature. When it is heated it does not go through the ring, but when left on the ring for some time, it goes through. Explain this observation **(2mks)**

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3.The set up shown below, figure 2, was used to study behavior of water when heated from room temperature at 20^0C.

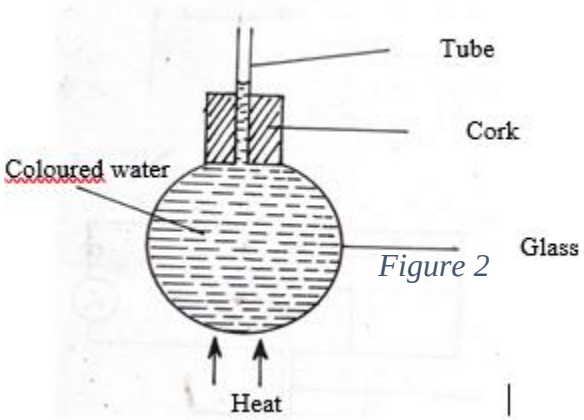


Figure 2

When heat was introduced, it was observed that the level of the water initially drops before starting to rise. Explain this observation **(2mks)**

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4.Figure 3 shows some air trapped by mercury in a glass tube. The tube is inverted in a dish containing mercury.

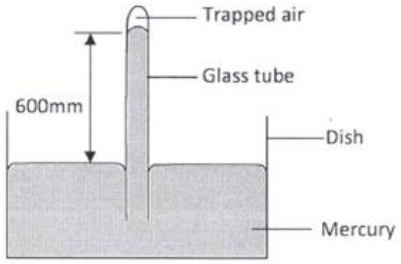


Figure 3

Given that the atmospheric pressure is 760 mmHg and the height of mercury column in the tube is 600 mm, determine the pressure of the air trapped in the tube in mmHg. **(3mks)**

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5. State **two** measurements you would take in an experiment to determine the upthrust of an object which is immersed in a fluid. **(2mks)**

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6. State how the measurements in question (5) are used to determine the upthrust of the object. **(1mk)**

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7. It is easier to bend an iron rod than a glass rod of the same dimensions at room temperature. Give a reason for this **(1mk)**

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8. An experiment was performed to find out how the length L of a spiral spring varies with the compression force, F. The figure, 4 shows the variation.

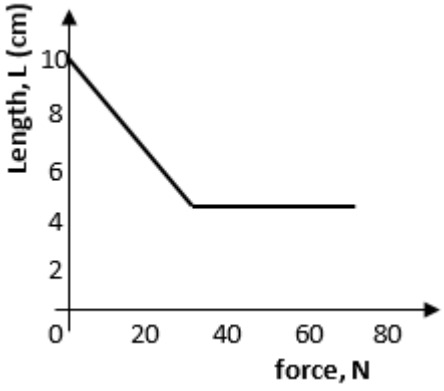


Figure 4

i. Draw a diagram of a possible set up of the apparatus **(3mks)**

ii. Determine the length of the spring when it is not being used (1 marks)

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9. Why is it that boiling water is not used for sterilization of clinical thermometer? **(1mk)**

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10. Figure 5 shows two identical balloons A and B. The balloons were filled with equal amounts of the same type of gas. The balloons are suspended at equal distances X1 and X2 from a metal cube filled with boiling water and placed on an insulating material. One side of the metal cube is shiny while the other side is dull (use this information to answer question 10 and 11).

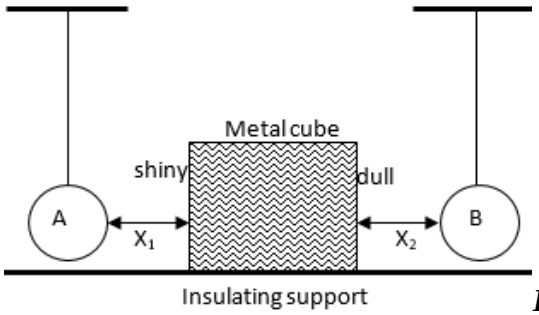


Figure 5

State the mode by which heat travels from the cube to the balloons **(1mk)**

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11. Compare the size of the balloons after some time. Give reason for your comment **(2mks)**

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12. A pupil blows a current of air over the surface of a sheet of paper held close to its mouth. State and explain what happens to the paper. **(2mks)**

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13. An object is projected horizontally at a velocity of 40m/s from a cliff 20m high. Calculate the time taken to hit the ground **(2mks)**

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SECTION B (55 MARKS)

14.

a) Define the following terms:

i. Mechanical advantage **(1mk)**

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ii. Efficiency **(1mk)**

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iii. Velocity ratio **(1mk)**

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b) A crane lifts a load of 200 kg through a vertical distance of 3.0m in 6 seconds. Determine the;

i. Work done **(3mks)**

ii. Power developed by the crane **(3mks)**

iii. Efficiency of the crane given that it is operated by an electric motor rated 2.5kW **(3mks)**

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15.

a) Distinguish between speed and velocity **(1mk)**

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b) The diagram shows a tall measuring cylinder containing a viscous liquid. A very small steel ball is released from rest at the surface of the liquid as shown.

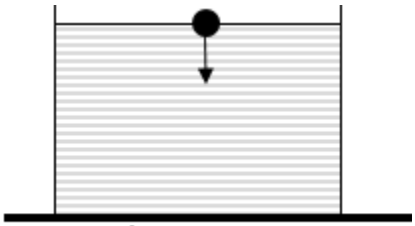


Figure 6

On the space alongside, sketch the velocity- time graph for the motion of the ball from the time it is released to the time just before it reaches the bottom of the cylinder. **(1mk)**

c) A body is initially in motion. If no external force acts on the body, describe the subsequent motion. **(1mk)**

d) Two trolleys of masses 2 kg and 1.5 kg are traveling towards each other at 0.25m/s and 0.40 m/s respectively. The two trolleys combine on collision.

i. Calculate the velocity of the combined trolleys. **(3mks)**

ii. In what direction do the trolleys move after collision? **(1mk)**

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e) The graph bellows shows how the velocity varies with time for a body thrown vertically upwards.

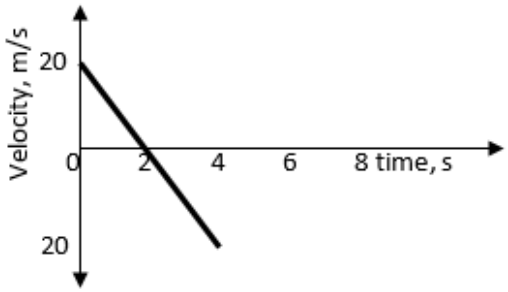


Figure 7

Determine:

i.Time taken to reach maximum height **(1mk)**

ii. The total distance moved by the body. **(3mks)**

16.

a)

i.Define pressure and state its SI unit **(2mks)**

ii. State Pascal's principle **(1mk)**

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b) The figure below shows a hydraulic lift system. The radius of the small piston is 3cm while that of the larger piston is 9 cm. A force of 90N is applied to the smaller piston.

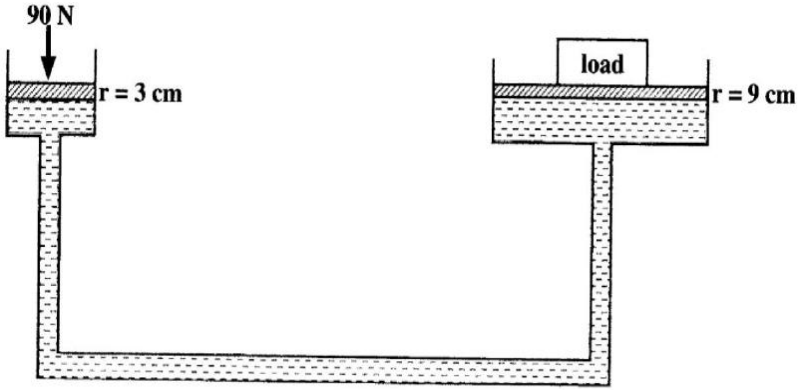


Figure 8

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Determine the maximum load it can lift **(3mks)**

c) State two factors that affect pressure at a point in a liquid **(2mks)**

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d) The figure 9 below shows two cylinders of different cross-sectional areas connected with a tube. The cylinders contain an incompressible fluid and are fitted with pistons of cross-sectional areas 4 cm^2 and 24 cm^2.

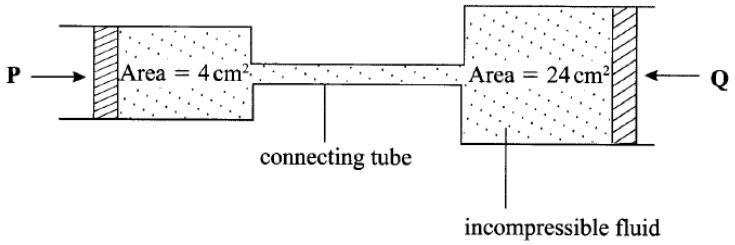


Figure 9

Opposing forces P and Q are applied to the pistons such that the pistons do not move. If the pressure on the smaller piston is 5N/cm^2, determine the force, Q. **(2mks)**

17.

a) A student is provided with five 20g masses, a metre-rule, a spring with pointer, a stand, boss and clamp. In the space provided, sketch a labelled diagram of the set-up that may be used to verify the hookes' law using this apparatus **(3mks)**

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b) State two measurements that should be recorded in order to plot a suitable graph so as to verify hooke's law **(2mks)**

c) Describe how the measurements made in b, above can be used to determine the spring constant **(2mks)**

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d) A helical spring stretches by 0.6 cm when supporting a weight of 40g. determine the extension when the same spring supports a weight of 65g. **(3mks)**

18.

a) State the principle of moments **(1mk)**

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b) The figure10 shows two identical trolleys with loads A and B. The loads are identical in shape and size.

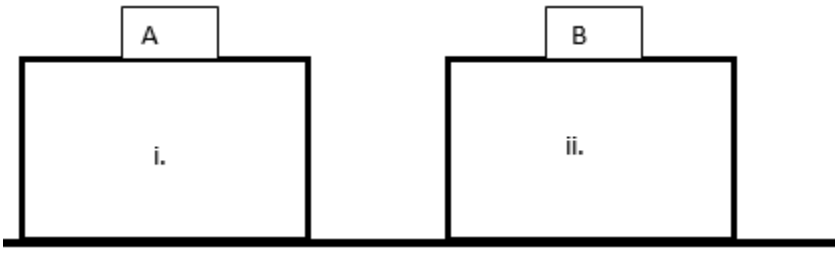


Figure 10

Given that the density of A is greater than that of B, explain why the trolley in (ii) is more stable. **(2mks)**

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c) The figure below shows beaker containing water at 0^0 C. The beaker is placed on a bench.

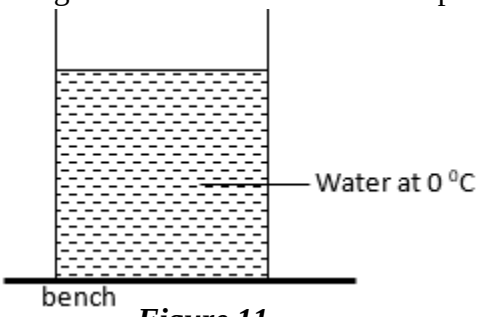


Figure 11

State and explain the changes in stability of beaker when water freezes **(2mks)**

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……

d) A uniform half- metre rod is balanced by a weight of 38N at one end. If the pivot is placed 10cm from the same end, calculate the weight of the rod. **(3mks)**

e)

i.Distinguish between streamline flow and turbulent flow **(1mk)**

ii. Water flows along a horizontal pipe of cross sectional area $30cm^2$. The speed of the water is 4m/s but it reaches 7.5m/s in a constriction in the pipe. Calculate the area of the constriction. **(3mks)**

This is the last printed page.

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EXCELLING STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

PHYSICS (232/2)

FORM THREE (3)

Time: 2 *Hours*

Instructions

- Write your name, admission number, class, signature and date of examination in the spaces provided at the top of the page.
- This paper consists of two sections A and B.
- Answer all the questions in the two sections in the spaces provided after each question.
- Electronic calculators and mathematical tables may be used.
- All numerical answers should be expressed in decimal notations.

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SECTION	QUESTION	MAXIMUM MARKS	CANDIDATE'S SCORE
A	1 – 11	25	
B	12	10	
	13	10	
	14	13	
	15	10	
	16	12	
	TOTAL	80	

SECTION A 25 MARKS

Answer all the questions in this section in the spaces provided

1. A pin hole camera forms on the screen an image which appears upside down and magnified with the aid of a ray diagram, explain how this happens. **(2mks)**

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2. A form one student has the following apparatus two cells, a switch, connecting wires and two bulbs. Draw a possible circuit diagram for the arrangement that will allow the two bulbs to light simultaneously **(2mks)**

3. An object is placed 30cm from a concave mirror of focal length 20cm. Calculate the magnification **(3mks)**

4. You are given three bars. One is magnetized with opposite poles at its ends. Another is magnetized with consequent poles. The third is not magnetized. Describe an experiment which you would perform to identify each. **(2mks)**

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5.The diagram below shows a ray of light XY traveling through a glass block of critical 42^0 to point A

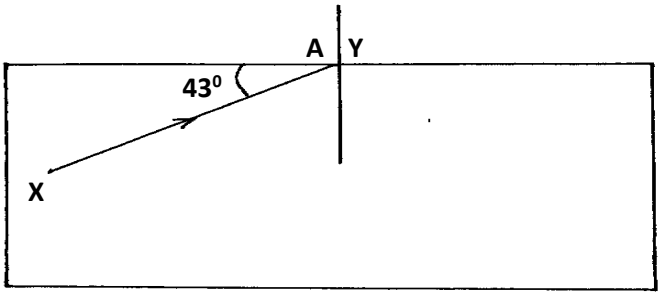


Figure 12

On the same diagram, draw the path of the ray as it travels past point A. **(2mks)**

6. Sketch a displacement time graph of a wave of frequency 4HZ and amplitude 3.0cm over a time interval of 1.5 seconds **(3mks)**

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7. The figure 2 below shows a diagram of circuit breaker .

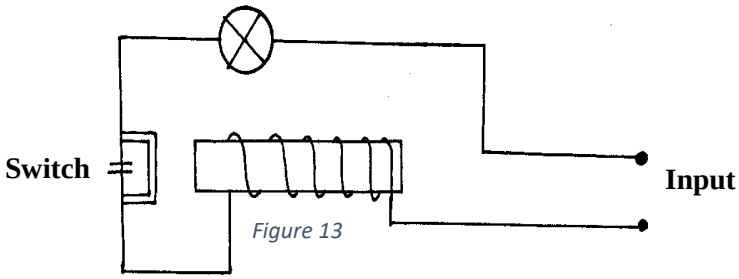


Figure 13

Explain how it operates **(3mks)**

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8. Differentiate between longitudinal wave and transverse wave **(1mk)**

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9. A man standing between two walls claps his hands once and two echoes are heard; one after 1.0 seconds and another 1.8 seconds later. If the nearer wall is 170 m away from the man, calculate the distance between the two walls **(3mks)**

10. A positively charged rod is brought close to two neutral spheres A and B held by insulating handles as shown below.

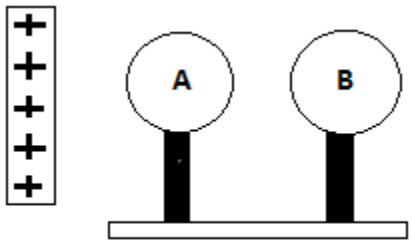


Fig. 3

Figure 14

Identify the charge(s) on A and B, in figure 3 above. (2mks)

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11. Water waves from a given source move from a deep to a shallow end. What effect would this have on the;

(i) Speed **(1mk)**

……

……

(ii) Wavelength **(1mk)**

……

……

SECTION B (55 MARKS)

Answer all the questions in this section in the spaced provided

12. Figure 4 below shows an electromagnetic relay being used to switch an electric motor on and off. The electromagnet consists of a coil of wire wrapped around a core. The motor in figure is switched off.

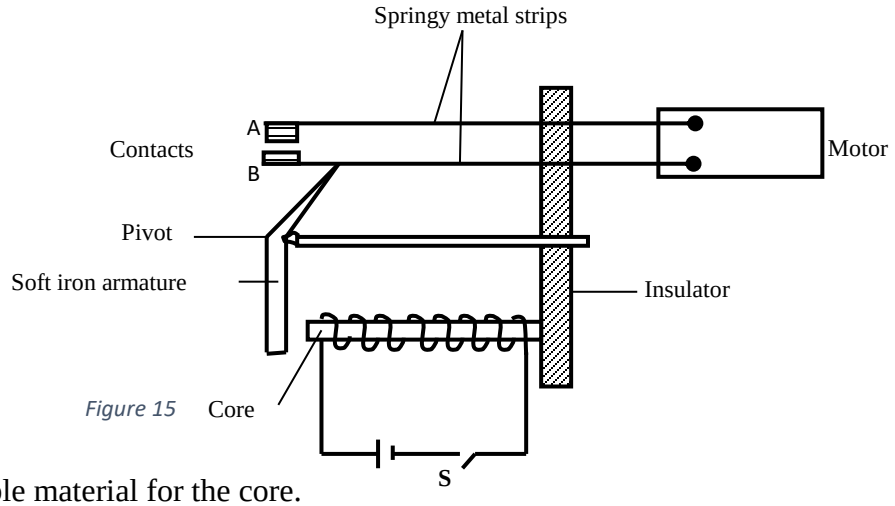


Figure 15

(a) Suggest suitable material for the core. **(1mk)**

……

……

(b) What happens to the core when switch S is closed? **(2mks)**

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(c) Why do the contacts A and B close when the switch S is closed. **(2mks)**

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(d) When the switch S is opened, what will happen to;

(i) The core **(1mk)**

……

……

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……

(ii) Soft iron armature. **(1mk)**

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(e) Give one other application of an electromagnet. **(1mk)**

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(f) State two ways in which an electromagnet could be made more powerful. **(2mks)**

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13.(a) The figure 5 below shows a displacement-time graph of a wave. The velocity of the wave is 100m/s.

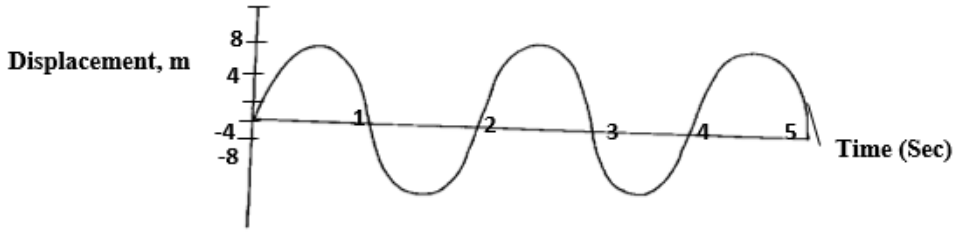


Figure 5

Determine;

(i) Amplitude **(1mk)**

(ii) Period **(1mk)**

(iii) Frequency **(3mks)**

(iv) Wavelength **(2mks)**

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(b.) Figure 6 below represents crests of water waves approaching a wide opening.

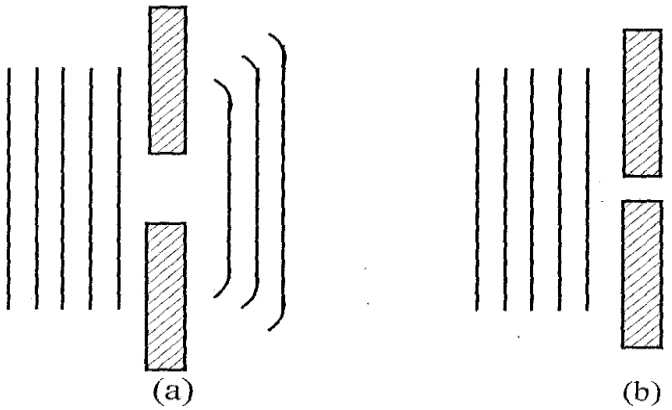


Figure 16

Crests of the same water waves are now approaching a narrow opening. Sketch the crests after passing through the opening. **(2mks)**

(c.) In the figure 7 below, a wave is approaching a reflector. Complete the diagram, indicating at least 3 wave fronts after reflection **(1mk)**

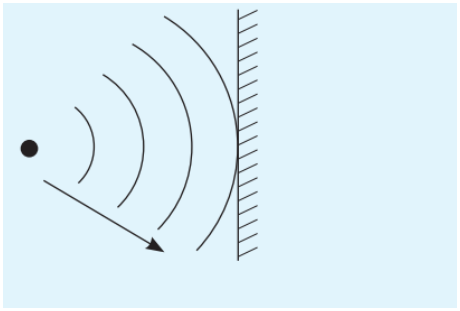


Figure 17

14.A student is provided with two resistors of value 2 Ω and 6 Ω

(a)(i) Draw a circuit diagram showing the resistors in series with each other and with a battery **(1mk)**

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(ii) Calculate the total resistance of the circuit (assume negligible internal resistance) **(2mks)**

(b) Given that battery has an e.m.f of 3V and internal resistance 1.2Ω. Calculate the current through.

(i) The 6 Ω resistor **(3mks)**

(ii) The 2 Ω resistor when the two are in parallel. **(3mks)**

(d) The graph below shows the variation of potential difference V with current I for a certain cell.

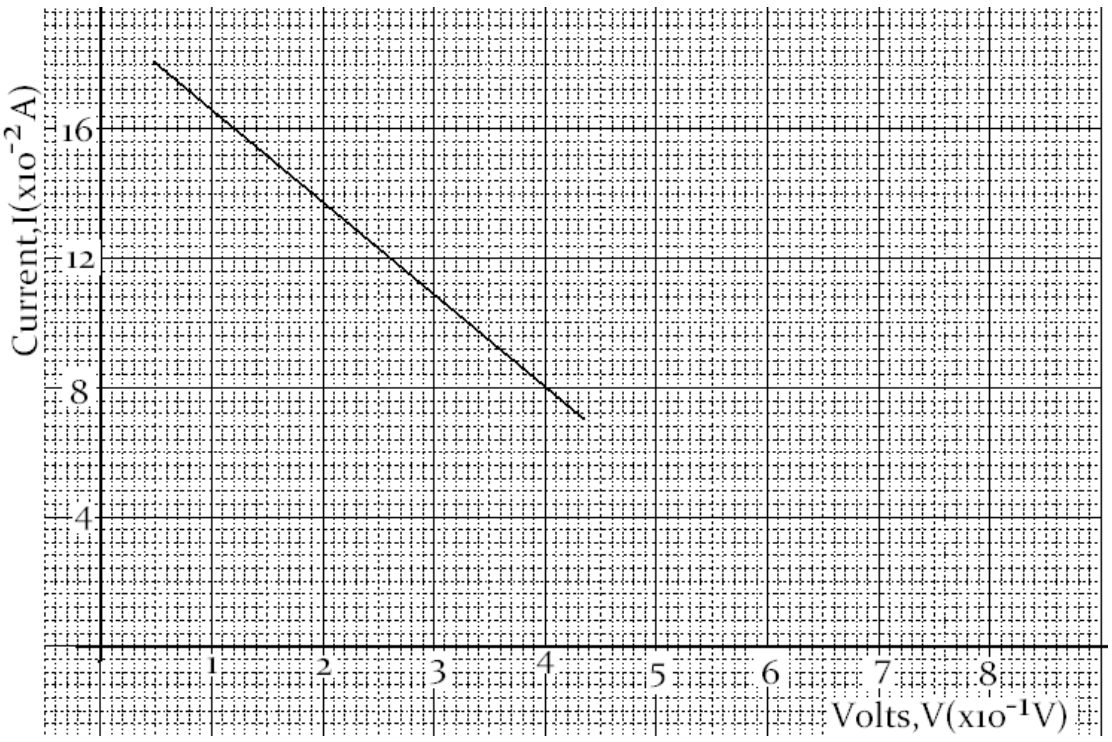


Figure 7

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From the graph determine

i). The internal resistance of the cell **(3mks)**

ii). The e.m.f of the cell **(1mk)**

15.(a) State Snell's law **(1mk)**

……

……

……

b) A ray of light travelling from water to glass makes an angle of incident of 30^0.
Find the angle of refraction in the glass. Refractive index of water $=^4/_3$. Refractive index of glass $=^3/_2$
(3mks)

c) State the necessary and sufficient conditions for total internal reflection to occur. **(2mks)**

d) You are provided with a glass block, a soft board, white sheet of paper and
three optical pins. With the help of a diagram explain how you would use these apparatus to determine the refractive index of the glass block using real and apparent depth method. **(4mks)**

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16. Figure 9 shows three capacitors connected between two points M and N

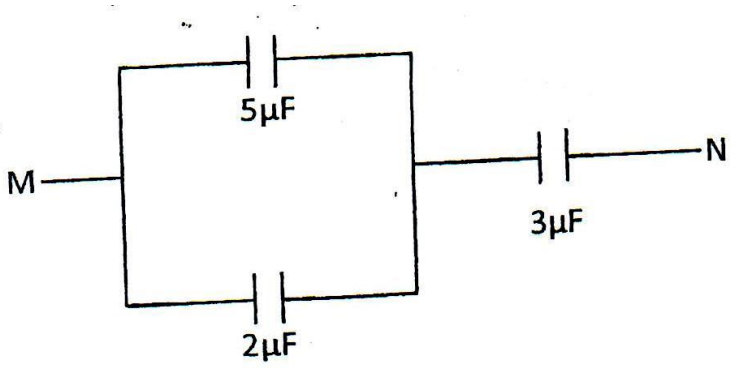


Figure 18

a) Find the effective capacitance between M and N **(3mks)**

b) Determine the charge in the circuit if 3 V is applied across MN **(3mks)**

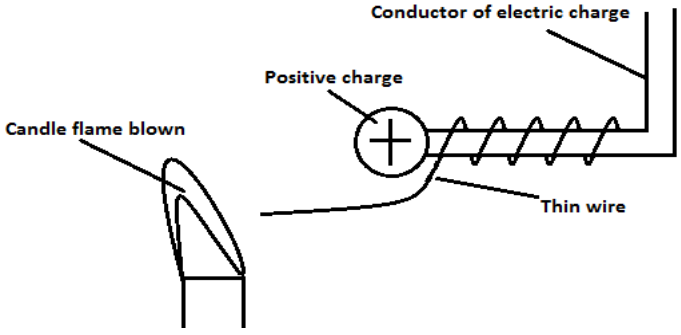
c. One of the factors which affect the capacitance of a parallel plate capacitor is the area of overlap of the plates. Name **two** other factors. **(2mks)**

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d. The figure below shows a thin wire connected to a charge generator and placed close to a candle flame.



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Explain why the candle flame is deflected as shown **(2mks)**

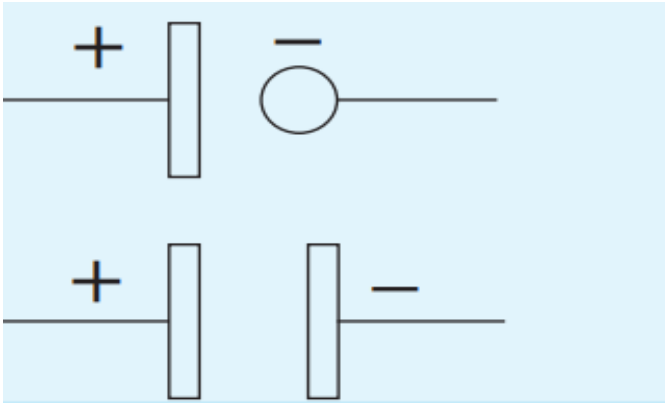
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e.) Sketch the electric field patterns in the following situations**:** **(2mks)**



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EXCELLING STUDENTS FORM THREE
END TERM 3 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN……..… DATE: ……..

PHYSICS (232/3)

FORM THREE (3)

Time: $2\frac{1}{2}$ *hours*

INSTRUCTIONS:

- Answer all the questions in this paper
- You are supposed to spend the first 15 minutes of the $2\frac{1}{2}$ hours allowed for this paper reading the whole paper carefully before starting your work.
- Marks are given for clear record of the observations made, their suitability and accuracy and the use made of them.
- Candidates are advised to record observations as soon as they are made
- Mathematical table and electronic calculators may be used.
- **The earth's gravitational pull, $g = 10Nkg^{-1}$**

For Examiner's use only:

QUESTION	TOTAL MARKS	CANDIDATE'S SCORE
1	20	
2	20	
GRAND TOTAL	40	

QUESTION 1

You are provided with the following apparatus:

- A cell holder
- A volt-meter (0-3V)
- An ammeter (0-1A)
- A switch
- Amounted resistance wire labelled AB

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a) Set up the apparatus as shown in the circuit below, figure 1

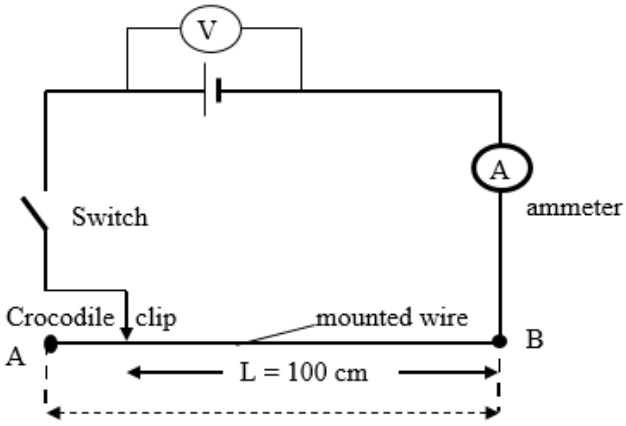


Figure 19

b) While the switch is open, record the voltmeter reading, V_0

$V_0 =$ ..... **(1mk)**

c) Put on the switch. While the crocodile clip is at A (i.e. L = 100 cm) take the volt-meter reading (V) and the ammeter reading (I). Record V and I in the table 1 below.

Table 1

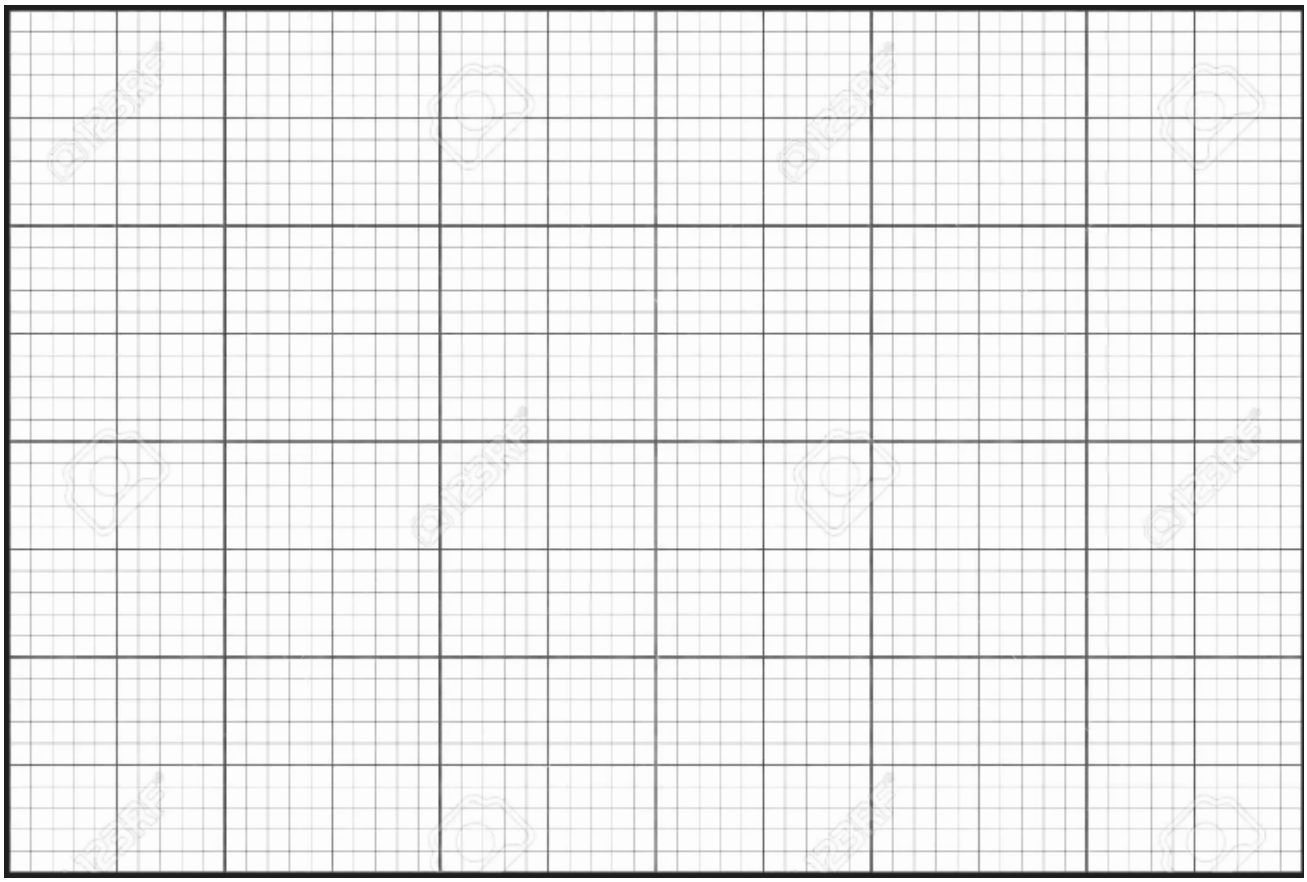
Length, ***L*** (cm)	100	80	60	40	20	0
Voltage (V)						
Current, I (A)						

(8mks)

d) Repeat the procedure in (c) above for the lengths shown and complete the table 1 above.

e)Plot a graph of voltage (Y-axis) against current (X-axis) (5marks)

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f) Determine the slope of the graph **(3mks)**

g) The voltage and current are related by the equation: $\boldsymbol{V = V_0 - b.I}$. Determine the value of b **(2mks)**

h) What physical quantity does the slope of the graph represent? **(1mk)**

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QUESTION TWO

You are provided with the following:

- a metre rule
- 3 optical pins
- 2 small wooden blocks
- a stop watch
- a stand, a boss and clamp
- a piece of sello-tape

Proceed as follows:

a) Using the two wooden blocks, clamp two optical pins about 4 cm apart in the stand so that they project out of the blocks in a horizontal plane.

b) Using a piece of sellotape, attach the third optical pin across the metre rule at a distance x = 10 cm from the 50 cm mark. Now suspend the metre rule on the two clamped pins so that it can swing freely in a vertical plan with the third pin as the axis. (See **figure 2**)

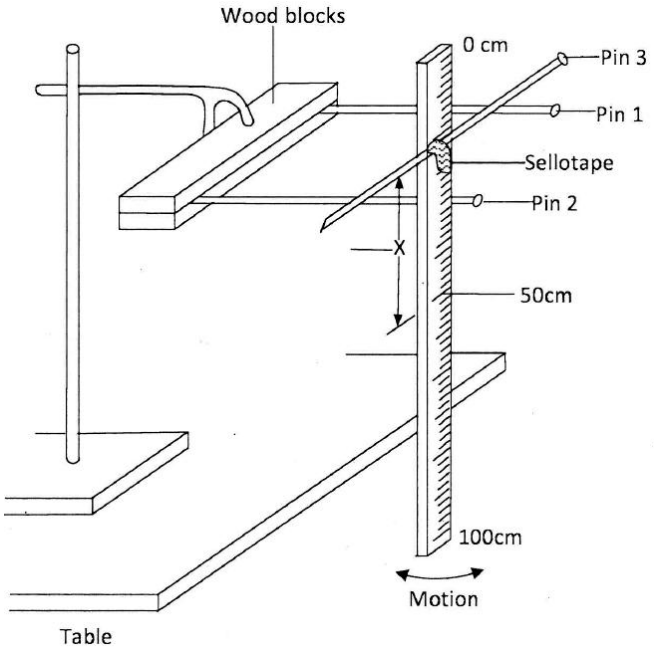


Figure 20

c) Displace the lower end of the metre rule slightly and let it oscillate as shown in the **figure 2**. Measure and record in table 2 the time t (s) for 20 oscillations.

d) Repeat the procedure in (b) and (c) for the values of x shown in table 2.

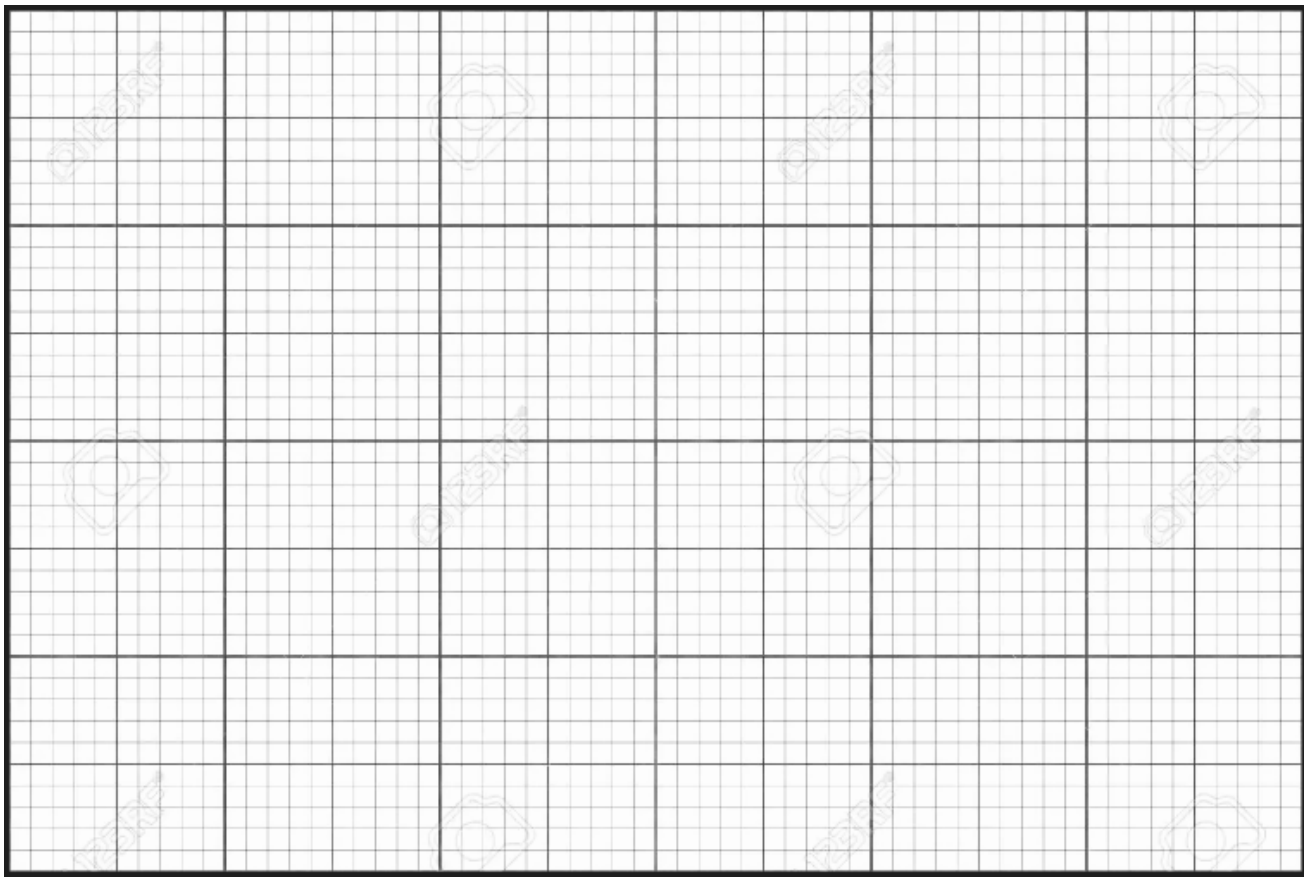
e) For each value of x shown in the table, determine the period T(s), and complete the table. (The period T is the time for one complete oscillation).

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Distance X(cm)	10	14	18	22	26	30
Time t (s)						
Period T (s)						
T^2. X (correct to 1 decimal place)						
X^2 (cm^2)						

(9mks)

f) On the grid provided, plot a graph of T^2. X (y-axis) against X^2 **(5mks)**



g) From the graph, determine:

i. The slope S of the graph. **(3mks)**

ii. The value of constant r given that: $rS = 39.5$ **(3mks)**

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