PROGRESSIVE STUDENTS F1 END TERM 3 SERIES 1 EXAMS *(14 SUBJECTS TESTED)*



PROGRESSIVE STUDENTS
FORM ONE
END TERM 3 SERIES 1 EXAMS

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For Marking Schemes

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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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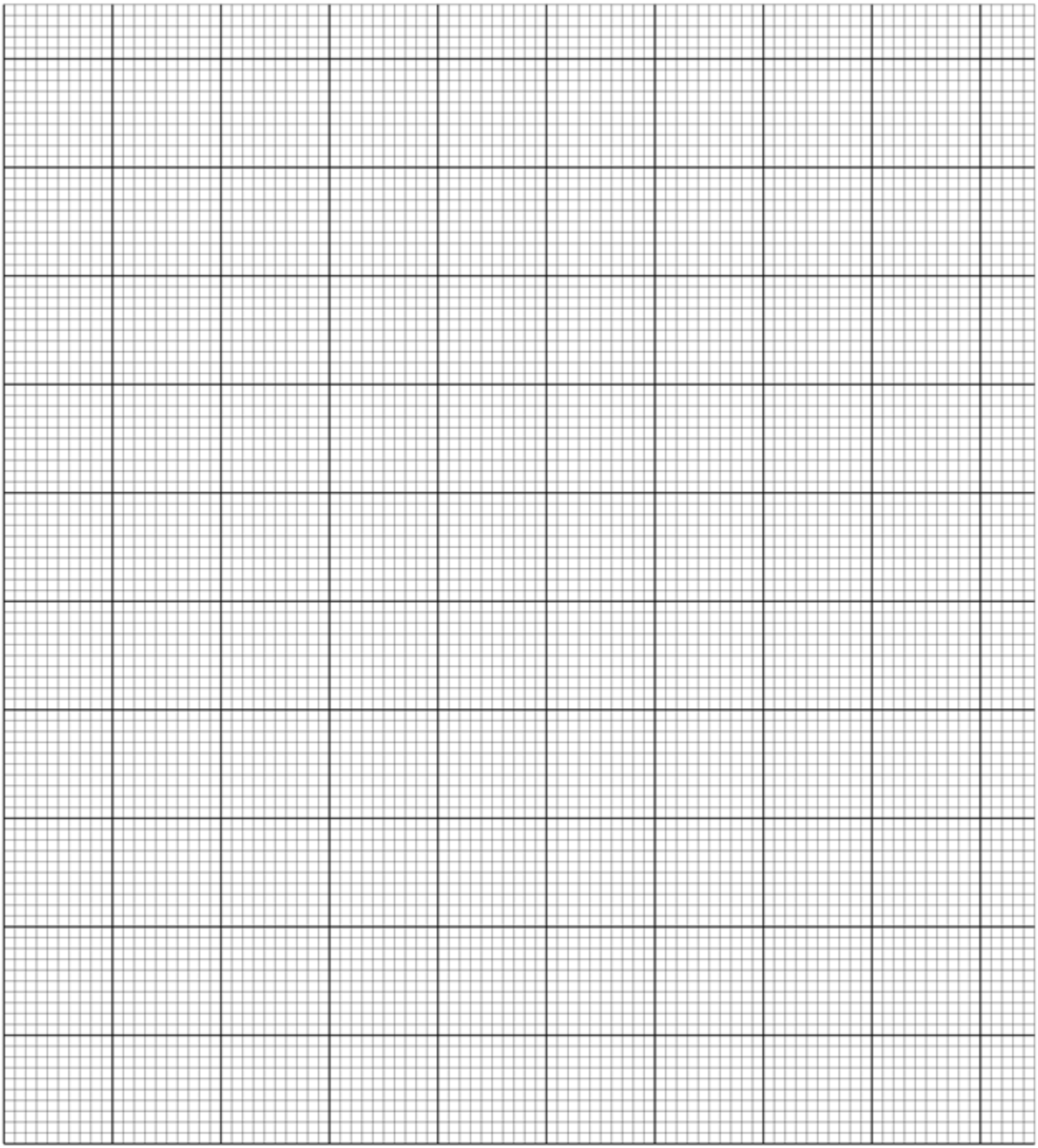
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PROGRESSIVE STUDENTS FORM ONE
END TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

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

AGRICULTURE
FORM ONE (1)
Time: 2 Hours
Instructions

- Write your name, class and admission number in the space provided above.
- Write the date of the examination and sign in the space provided above.
- Answer ***all*** the questions in the spaces provided.
- You may be *penalized* for wrong spelling especially technical terms.

For Examiner's Use Only

SECTION	Question	Maximum Score	Learner's Score
SECTION A		30 MKS	
SECTION B		20 MKS	
SECTION C		40 MKS	
TOTAL			

SECTION A 30 MKS

Attempt all question in this section in the space provided

1.Name **two** areas of study which show that Agriculture is a science. **(2mks)**

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2.Give **two** reasons why Agriculture is important for the development of industries. **(2mks)**

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3.State **four** main branches of agriculture. **(4mks)**

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4.List **two** disadvantages of shifting cultivation **(2mks)**

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5.Name **three** soil forming factors. ` **(3mks)**

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6.State **four** factors farmers face in agricultural production. **(4mks)**

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7.Give **three** aspects of light that influence crop production. **(3mks)**

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8.State **two** reasons for cultivating during dry period. **(2mks)**

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9.For each of the following Tertiary operations, give one reasons why it is carried out. **(3mks)**

(i) Ridging

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(ii) Rolling

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(iii) Leveling

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10. Give **four** factors that determine the numbers of times a farmer would harrow his land. **(2mks)**

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11.(i) What is water conveyance? **(1mk)**

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(ii) Name **two** types of pipes used in the farm. **(2mks)**

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SECTION B 20 MARKS

Attempt all questions in the spaces provided in this section

11. (a) State **three** uses of water on the farm **(3mks)**

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(b) State **two** surface irrigation methods. **(2mks)**

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(c) List **two** feature of plastic pipes a farmer should consider before buying the pipes. **(2mks)**

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12. (a) State **three** ways by which soil loses its fertility. **(3mks)**

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(b) Give **three** factors considered when siting compost manure on the farm. **(3mks)**

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(c) Give three qualities of plants used for green manure **(3mks)**

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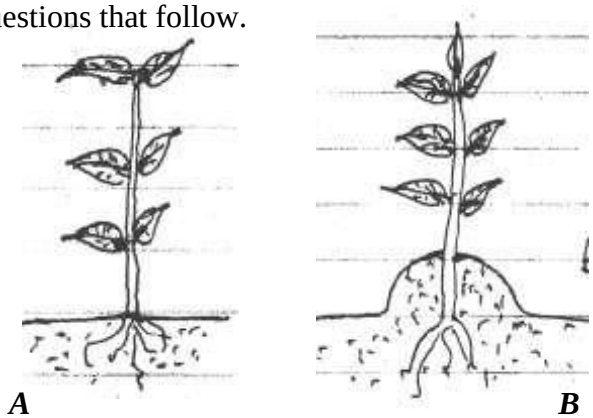
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(d) The diagram below shows a practice carried out on various crops on the farm. Study them carefully and answer the questions that follow.



A ***B***

(i) Identity the practice represented by B. **(1mk)**

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(ii) State the importance of the above practice in the following crops. **(2mks)**

Maize.....

Irish Potatoes.....

(iii) At what stage of growth should the above practice be carried out in maize? **(1mk)**

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SECTION C 40 MKS

Answers any2 questions 16, 17 or 18 in the spaces provided after the question

13. (a) List **three** dairy goat breeds. **(3mks)**

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(b) Name a breed of dairy cattle having the following characteristics: red coat with white marking on the legs, face, tail switch and girth. **(1mk)**

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(c) State **four** characteristics of beef calf that makes it suitable for beef production. **(4mks)**

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(d) Identify the farm record below and answer the questions that follow

Date	Disease symptoms	Animal affected	Drug used	Cost of treatment	Remarks

i) Identify the farm record shown. **(1mk)**

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(ii) State three different information that should be entered in the remarks column. **(3mks)**

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14. Below are diagrams of farm tools. Use them to answer the question that follow.

L



M



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P	N
	

(i) Identify the tools **(2mks)**

L .....

M .....

N .....

P .....

(ii) State **one** advantage of tool M over N **(1mk)**

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(iii) State **one** functional difference between N and P **(2mks)**

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(iv) Give **three** reasons for maintaining farm tools properly. **(3mks)**

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15. (a) Describe the process involved in water treatment using chemical treatment system. **(12mks)**

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(b) State four reasons of drainage? **(4mks)**

(c) Give four reasons that necessitate a farmer to choose drip irrigation as method of irrigation **(4mks)**

16. (a) Give **two** advantages of keeping a Jersey cow instead of a Friesian cow for milk production. **(2mks)**

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(b) State **two** adaptations of dromedary camel to its environment. **(2mks)**

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(c) Give **four** differences between large white and landrace pig breeds**.** **(4mks)**

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(d) Give six differences between exotic breeds of cattle and indigenous breeds of cattle **(6mks)**

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(e) Fill the table below about livestock **(6mks)**

livestock	Mature male	Castrated male	Mature female	After weaning before mating		Young one
				Male	Female	
Cattle	Bull		cow			
Sheep			Ewe			
Pig						piglet
Chicken	cock		Hen			chick

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PROGRESSIVE STUDENTS FORM ONE
END TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

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

BIOLOGY
FORM ONE
Time: 2 Hours

INSTRUCTIONS

1.This Paper has TWO Sections A and B
2.All Questions are Compulsory
3.Write your Answers in the Spaces Provided
4.Wrong Spelling of Technical Terms shall be Penalized

SECTION	Max Score	Student's Score
A	40	
B	40	
TOTAL	80	

SECTION A (40 MARKS)

1. Define the following terms as used in biological studies: **(3mks**

a) Cytology ……..

b) Churning ……

c) Diffusion ……

2. The Specific name of the leopard is 'Pardus' while its generic name is 'Panthera'.

a) Write the correct scientific name of the leopard **(1mk**

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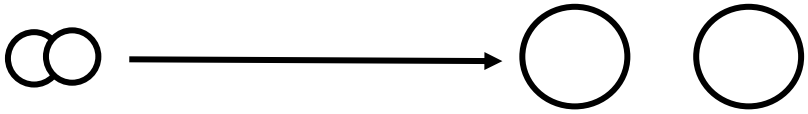
b) Why is the leopard and lion not of the same species yet they belong to the same genus? **(1mk**

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3. Use the following illustrations to answer the questions that follow



Object **Image**

a) Apart from magnification, give the other function of the microscope illustrated above **(1mk**

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b) State **TWO** ways in which the functions illustrated above can be improved in a light microscope **(2mks**

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4. State **TWO** ways in which the study of Biology enhances global unity **(2mks**

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5. A vehicle consumes fuel and breaks it down to generate energy for its movement by using Oxygen and releases Carbon (IV) Oxide fumes in the process.

a) Give **TWO** reasons why the vehicle is still considered non-living **(2mks**

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b) Why is locomotion considered a special type of movement in living organisms? **(1mk**

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6.a) What does a taxonomist do? **(1mk**

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b) State **TWO** ways in which Carolus Linnaeus (1707-1778) easened the work of modern taxonomists. **(2mks**

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7. Why is the heterodont dentition important in the process of digestion **(2mks**

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8.a) What is haemolysis? **(1mk**

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b) How can plasmolysis be reversed? **(1mk**

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9. Name the carbohydrate found in the following structures in living organisms**:** **(2mks**

i) Exoskeleton in insects: **……..……..**

ii) Cell wall of plant cells **…..……..**

10. Separate samples of glucose solution and distilled water were subjected to food test to determine the presence of reducing sugars.

a) State the expected observation **(2mks**

SAMPLE	EXPECTED OBSERVATION
Distilled Water	
Glucose Solution	

b) Name the reagent that was used in the food test above **(1mk**

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11. Given the following number of teeth: Lower jaw: Molars-6; Incisors-8; Premolars-6; Canines-0; While in Upper jaw had: Molars-4; Incisors-0; Premolars-6 and Canines-0.

a) Write down the correct dental formula for the animal. **(1mk**

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b) Give **TWO** reasons why this animal is considered herbivorous **(2mks**

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12. Differentiate between Photosynthesis and Chemosynthesis **(2mks**

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13. a) Name a periodontal disease **(1mk**

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b) State **TWO** practices considered to be good dental health practices **(2mks**

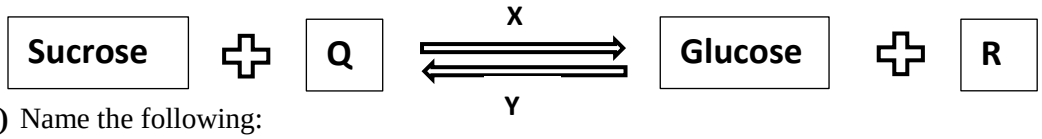
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14. Consider the equation shown below for a reaction that takes place in the human body



a) Name the following: **(2mks**

i) R ……...

ii) Enzyme **Y** ……...

b) In which part of the alimentary canal does the reaction labelled **X** takes place? **(1mk**

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c) State the function of substance **Q** in the human body **(1mk**

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15. a) Which part of light microscope that enables change from one objective lens to the other? **(1mk**

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b) Give **TWO** reasons why cover slip is an important apparatus in microscope work **(2mks**

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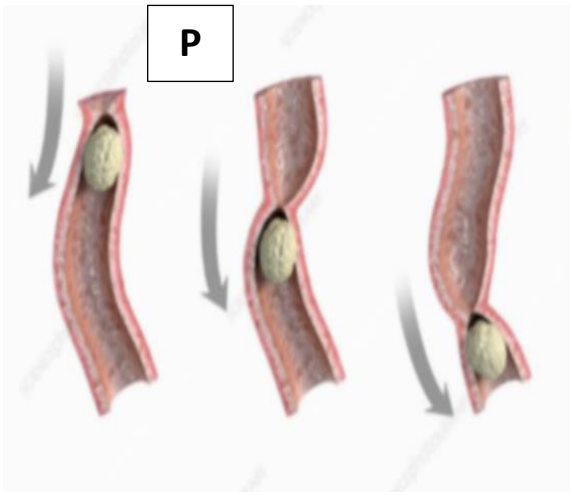
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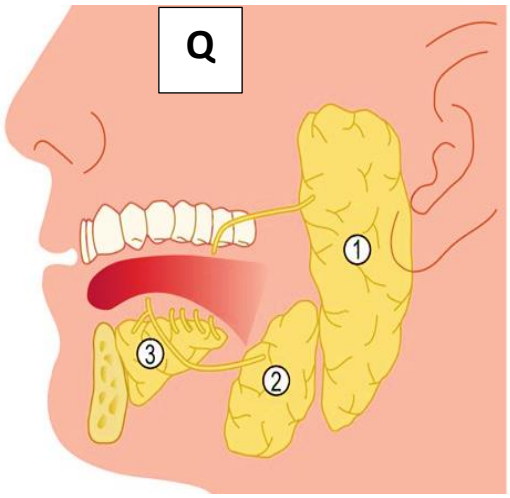
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SECTION B (40 MARKS)

16. The diagrams shown below represent sections of the alimentary canal of mammals





a) i) Name the process represented in the diagram labelled **P** above **(1mk**

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ii) How is this process shown in **P** important in the Ileum **(1mk**

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b) Explain how consumption of food rich in roughages reduces constipation **(2mks**

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c) Identify the specific gland labelled **3** in the diagram labelled **Q** above **(1mk**

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d) Name the digestive juice secreted by the glands labelled **1**,**2** and **3** **(1mk**

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e) Give **TWO** ways in which the juice named in d) above is suited to its functions. **(2mks**

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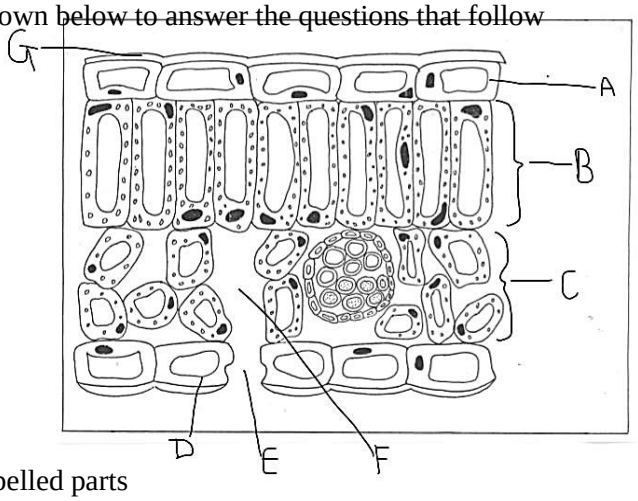
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17. Use the section of a leaf shown below to answer the questions that follow



a) Identify the following labelled parts **(2mks**

i) E ……...

ii) F ……..

b) State **TWO** unique structural features of the cell labelled **D** compared to cell **A** **(2mks**

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c) How do the following parts adapt the leaf to the process of photosynthesis**?** **(2mks**

i)**E**

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ii) **G**

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d) Give **TWO** reasons why rate of photosynthesis is higher in part **B** than in **C** **(2mks**

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18. Annah illustrated the field of view of a light microscope as shown below



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a) What is field of view? **(1mk**

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b) Determine the diameter of the field of view shown above **(1mk**

c) If Annah counted 10 cells along the diameter of the field of view shown above, determine the diameter of one cell in micrometers **(3mks**

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d) If the actual diameter of a single cell is 0.02 micrometers, determine the Total Magnification Annah used in observing the cells. **(2mks**

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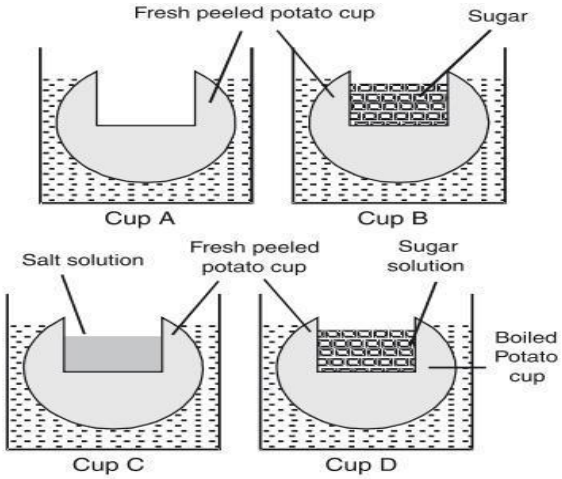
e) State **ONE** weakness of the method above in determining the size of a cell **(1mk**

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19. Form One students in Nasokol Girls High School set up the following experiment to study a physiological process. Each potato cup was placed in distilled water for 30mins.



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

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b) In which set up was there no significant change in the level of distilled water? **(1mk**

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c) Account for the expected observation in the following:

i) **B** **(2mks**

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ii) **D** **(2mks**

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d) State **TWO** importance of the physiological process investigated to human beings **(2mks**

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20. Students of Thurdibuoro Sec School set out to study the action of pepsin on egg albumen. They placed 3ml of egg albumen in three test tubes: **A**, **B** and **C**. Three drops of Hydrochloric acid were added to the test tubes **A** and **B**. 1ml of 1% boiled pepsin was added to test tube **B** and 1ml of unboiled 1% pepsin to test tube **A** and **C**. The three test tubes were then placed in a water bath maintained at 37^0C for 10 minutes after which test for proteins was done.

a) Account for the results obtained for test tube labelled:

i) A **(2mks**

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ii) B **(2mks**

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b) What was the role of the following in the experiment?

i) Hydrochloric acid **(1mk**

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ii) Water bath maintained at 37^0C **(1mk**

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iii) Test tube **C** **(1mk**

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c) State **ONE** way in which the stomach lining of human beings is protected from the corrosive action of Hydrochloric acid **(1mk**

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END

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PROGRESSIVE STUDENTS FORM ONE
END TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

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

565/1
BUSINESS STUDIES PAPER 1
TIME 2 HOURS

Instructions to candidate;

Answer all questions in this paper in the spaces provided after each.

For examiners use only

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

Question	16	17	18	19	20	21	22	23	24	25	Total
Score											

1.State four benefits of learning business studies to a Kenyan student **(4mks)**

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2.Highlight **four** measures a business may take to ensure that its environment is conducive to its business activities **(4mks)**

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3.State four factors to consider when evaluating a viable business opportunity. **(4mks)**

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4.Identify the documents that each of the following descriptions refer to **(4mks)**

Description	Document
Used to inform buyer that seller has received the order	
Used to ask about the availability of goods.	
Used to organize for transportation of goods between seller and buyer	
Used to show goods sold on credit	

5.Highlight four features of services. **(4mks)**

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6.State reward of each factor of production **(4mks)**

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7.Identify **four** component of business studies **(4mks)**

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8.Identify four sources of a business idea. **(4mks)**

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9.State the documents used for the following functions **(4mks)**

(a) To inform a buyer that his or her account has been reduced by certain amount**……..……**

(b) To require a supplier to provide a particular service to a customer**…….**

(c) To determine/ascertain the credit worthiness of customer**……..**

(d) To show that transport has been hired to deliver specified good to a particular buyer**……..…**

10. Highlight four reasons why cash payment would be preferred to cheque payment. **(4mks)**

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11. Highlight **four difficulties faced in satisfaction of human wants.** **(4mks)**

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

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13. Outline **any four measures that a firm should take to improve the performance of its labour force. (4mks)**

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14. State **four responsibilities of a business to its customers. (4mks)**

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15. Give four reasons why business exists in society. **(4mks)**

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16. Highlight four importance of entrepreneurship in the society. **(4mks)**

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17. Identify four gaps in a market that give rise to a business opportunity. **(4mks)**

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18. State **four various reprographic techniques that can be carried out in an office.** **(4mks)**

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19. Outline four factors that have to be taken into consideration when deciding on a type of office layout to use. **(4mks)**

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20. State **the best type of machine one would use to perform the following tasks** **(4mks)**

	Functions	**Type of machine**
(a)	To create postage impressions on envelopes	
(b)	To fold documents put them in envelope and seal them	
(c)	To destroy sensitive but unwanted documents	
(d)	To run 300 copies of an exam for students in a school	

21. E-Commerce **is a recent trend in business. Outline the advantages of using this method in carrying out business activities.** **(4mks)**

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22. Highlight four disadvantages of itinerant traders. **(4mks)**

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23. Differentiate between a tied shop and a single shop. **(4mks)**

	Single shop	Tied shop
(a)		
(b)		
(c)		
(d)		

24. Highlight four reasons that would make a seller to issue a credit note to a buyer. **(4mks)**

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25. Identify four similarities between a bill of exchange and a promissory note. **(4mks)**

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PROGRESSIVE STUDENTS FORM ONE
END TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

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

CHEMISTRY
FORM ONE
TERM THREE
TIME: 2 HOURS
Kenya Certificate of Secondary Education (K.C.S.E)

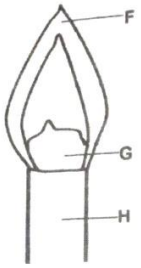
INSTRUCTIONS TO CANDIDATES:

(i) Write your name and Admission number in the spaces provided above.
(ii) Answer ALL the questions in the spaces provided.
(iii) Mathematical tables and silent electronic calculators may be used.
(iv) All working must be clearly shown where necessary.
(v) 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

Questions	Maximum Score	Candidate's Score
1 –24	80	

1. A Bunsen burner is one of the sources of heat used in a chemistry laboratory. Study the type of Bunsen burner flame shown below and answer the questions that follow.



(i) Name the parts labelled F and H. **(1mk)**

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(ii) Describe an experiment that would confirm that the region labelled G is unsuitable for heating. **(2mks)**

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2.Indicators are some of the substances used in a chemistry laboratory during the study of properties of acids and base.

(a) What are acid-base indicators? **(1mk)**

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(b) Flower extracts can be used as acid – base indicators. Describe how to obtain flower extracts for use as simple acid-base indicators. **(2mks)**

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3. (a) Define the term rust and give its chemical name. **(2mks)**

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(b). Explain why galvanizing rather than tinning is a better method of preventing rusting **(2mks)**

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4.Distinguish between each of the following:

(a) Universal solvent and solute **(2mks)**

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(b) A mixture and a compound **(2mks)**

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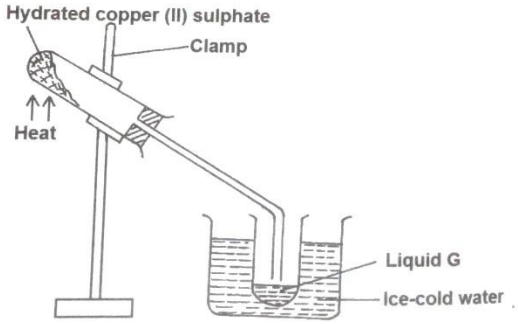
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5. The diagram below is a set up used to investigate the effect of heat on hydrated copper (II) sulphate. Study the diagram and answer the questions that follow.



(a) Why is the boiling tube slanted as shown? **(1mk)**

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(b) What is observed in the boiling tube? **(1mk)**

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(c) Identify liquid G **(1mk)**

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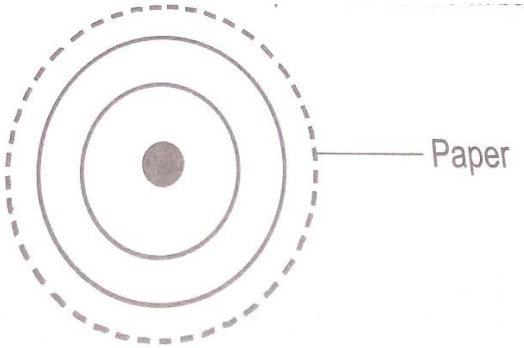
(d) What is the role of ice-cold water? **(1mk)**

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6. Chromatography is one of the methods used in separation of mixtures. A green colouring material was placed at the center of a circular piece of paper and allowed to dry. Drops of a solvent were then added to the center of the filter paper and eventually two circles were produced as shown below.



(a) Name a process by which dilute extract could have been made more concentrated. **(1mk)**

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(b) Name a suitable piece of apparatus for adding drops of the solvent to the center at a controlled rate? **(1mk)**

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(c) What properties make the components of the green colouring material to separate out? **(2mks)**

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7. Write word equations for each of the following reactions.

(a) Burning of carbon in air to obtain carbon(IV)oxide **(1mk)**

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(b) Action of dilute hydrochloric acid on zinc metal to obtain zinc chloride and hydrogen gas. **(1mk)**

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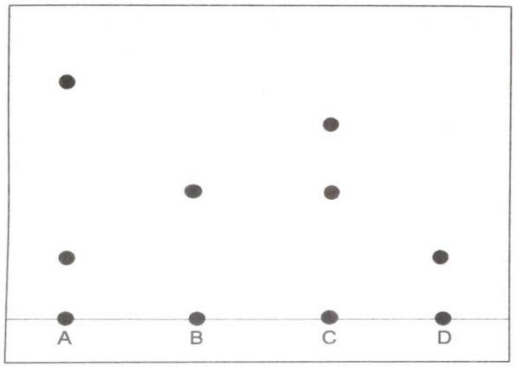
(c) Give one importance of using chemical symbols to represent elements **(1mk)**

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8.An analytical chemist working on food substances A,B,C and D suspected to contain trace elements that could boost the immune system of HIV-AIDS of patients Peter, Mary, Jane and John on diets A,B,C and D respectively. Jane showed remarkable improvement on her immune system. Study the chromatogram of the food substances shown below and answer the questions that follow.



On the chromatogram above:

(a) Circle the trace element responsible for improving Jane's health**.** **(1mk)**

(b) Circle the trace element found in Peter's diet only **(1mk)**

(c) Indicate the solvent front, using a dotted line. **(1mk)**

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9. A mixture of magnesium powder and lead (II) oxide will react vigorously when heated but no reaction occurs when a mixture of magnesium oxide and lead powder are heated.

(a) Explain the observations above. **(2mks)**

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(b) Write a word equation for the reaction between magnesium and lead (II) oxide. **(1mk)**

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(c) From (b) above, identify the;

(i) Oxidized substance. **(1mk)**

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(ii) Oxidizing agent. **(1mk)**

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(d) What name is given to such a reaction which occurs above? **(1mk)**

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10. A certain indicator was added to a solution. The pH value on the scale that was used with this indicator was read as ***6.5***

a) Name the indicator. **……** **(1mk)**

b) State the nature of the solution. **……..** **(1mk)**

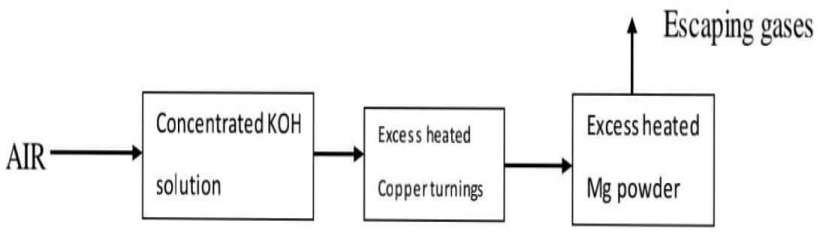
c) Why is the above indicator a better indicator than other common indicators used in the laboratories? **(1mk)**

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11. Air was passed through several reagents as shown in the flow chart below.



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a) Write an equation for the reaction which takes place in chamber with magnesium powder. **(1mk)**

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b) Name one gas, which escapes from the chamber containing magnesium powder. Give a reason for your answer. **(2mks)**

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12. Ayuya accidentally contaminated iron (III) chloride with sodium chloride and iron filings. Describe how he can separate and obtain pure samples of each substance from the mixture. **(3mks)**

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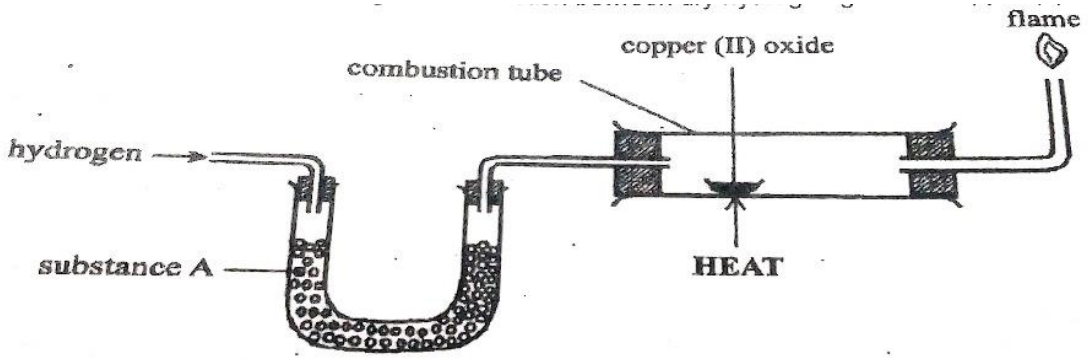
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13. The set up below was used to investigate the reaction between dry hydrogen gas and copper(II)oxide.



(a) Name substance A and give its purpose. **(1mk)**

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(b) State and explain the observation made in the combustion tube **(2mks)**

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(c) Write a word equation for the reaction which occurred in the combustion tube. **(1mk)**

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14. Classify the following processes as either chemical or physical. **(3mks)**

Process	**Type of change**
Heating of copper(II) sulphate crystals	
Obtaining Kerosene from crude oil	
Souring of milk	

15. When magnesium was burnt in air, two solid mixtures were formed. On addition of water to the mixture, a gas which turned moist red litmus paper to blue was evolved. Use word equations to explain the two observations. **(3mks)**

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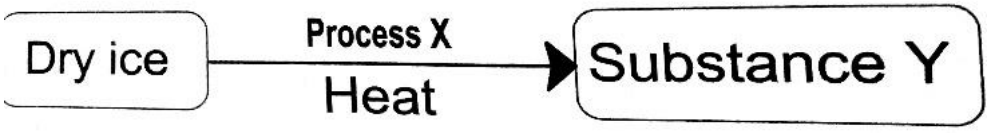
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16. Study the diagram below and answer the questions that follow.



(a) Name substance Y **(1mk)**

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(b) Why is dry ice preferred by ice cream vendors in their cold boxes over ordinary ice? **(1mk)**

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17. The table below shows the pH values of some solutions.

Solutions	A	B	C	D
PH	13.0	7.0	2.0	6.5

(a) Which solution reacts vigorously with magnesium metal? Explain. **(1mk)**

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(b) Which solution is likely to be that of lemon juice? **(1mk)**

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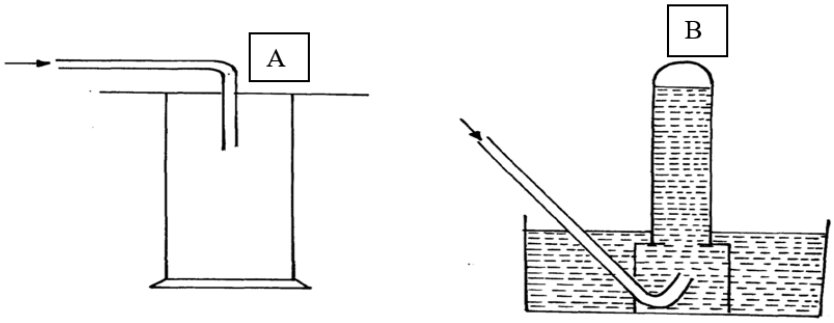
(c) Which solution is likely to produce green colour with the universal indicator. **(1mk)**

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18. The diagram below shows three methods for collecting gases in the laboratory



(a) Name the methods A and B. **(1mk)**

A: ……

B: ……

(b) From the methods above, identify one that is suitable for collecting Hydrogen. Explain. **(2mks)**

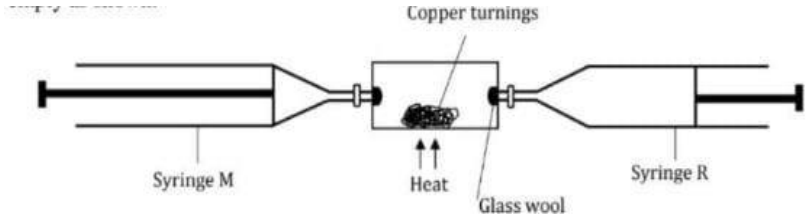
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19. In an experiment to determine the proportion of oxygen in air, copper turnings were packed in excess in a long combustion tube connected to two syringes of 110cm^{3}each in volume. At the beginning of the experiment, syringe R contained 110cm^3 of air while syringe M was closed and empty as shown.

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Air was passed over the heated copper slowly and repeatedly until there was no further change in volume. 97.5cm^3 of air remained in syringe M.

(a) State the observation made in the combustion tube. **(1mks)**

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(b) If the volume of air in the combustion tube at the beginning of the experiment was 23.8cm^3 and at the end of the experiment reduced to 10cm^3, calculate the percentage of the active part of air. **(2mks)**

20. State and explain the changes in mass that occur when the following are heated separately in open crucibles. Write a word equation for each reaction.

(a) Sodium metal **(2mks)**

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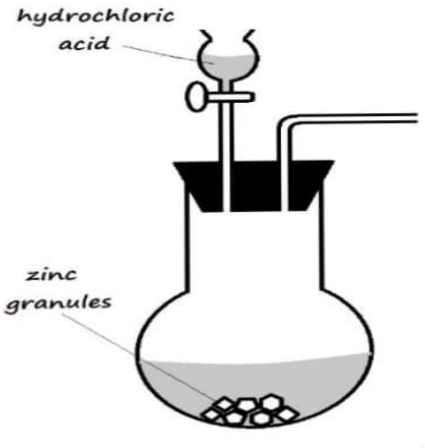
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(b) Sodium nitrate **(2mks)**

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21. The setup below was used to prepare hydrogen gas in the laboratory



a) Complete the diagram to show how a dry sample of hydrogen gas can be collected **(2mks)**

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b) Write a word equation for the reaction which occurs in the round bottomed flask **(1mk)**

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c) Name a substance which may be added into the flask to speed up the production of the hydrogen gas **(1mk)**

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22. You are given samples of pure and impure water in beakers that are not labelled. Explain one simple experiment you can use to distinguish between the two. **(2mks)**

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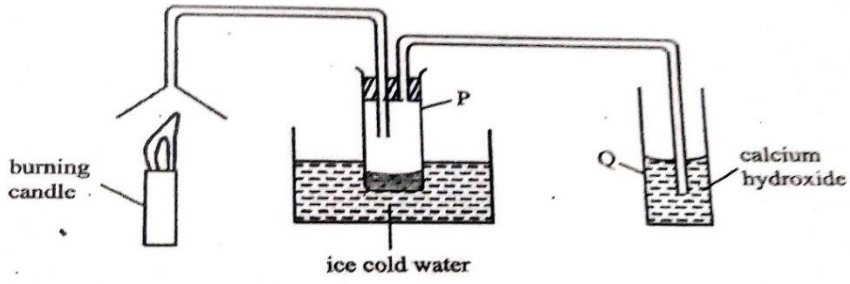
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23. Complete the table below by indicating the observations and the type of permanent or temporary change which occurs. **(3mks)**

Experiment	Observations	Type of Change
Heating candle wax strongly in a test tube		
Anhydrous copper(II)sulphate is left exposed overnight		
Iron wool is soaked in tap water for two days.		

24. Study the set up below and answer the questions that follow.



(a) Name the substance that was collected in tube P. **(1mk)**

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(b) Write a word equation for the reaction which occurs in tube Q in the first few minutes of the experiment. **(1mk)**

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(c) Give a suitable conclusion for the experiment in the set up. **(1mk)**

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PROGRESSIVE STUDENTS FORM ONE
END TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

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

COMPUTER STUDIES
FORM ONE TERM 3
PAPER ONE

TIME: 2Hours

INSTRUCTION TO CANDIDATES

- Write your name and admission number in the spaces provided above
- Answer **ALL** questions
- All answers should be written in the spaces provided on the question paper

1.State four factors to consider when choosing a secondary storage device **(4mks)**

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2.Use the diagram below to answer the questions that follow



Figure 1 **Figure 2** **Figure 3**

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(i) Identify the type of operating system represented in Figure 1, 2 and 3 **(3mks)**

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(ii) State four advantages of the operating system represented in Figure 3 **(4mks)**

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3.Describe the following terms as used with Monitors

(i) Pixel **(2mks)**

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(ii) Resolution **(2mks)**

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4.State four Keyboard keys that works in a state of ON/OFF switches in operation **(4mks)**

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5.State five ways of ensuring that a computer lab is well burglar proofed **(5mks)**

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6. Matilda a student from Kanga High School was typing his assignment on a computer using Microsoft windows Operating system. After 10 minutes the computer's graphical user interface refused to respond to his typing on the keyboard at the same time he was unable to move the mouse pointer on the screen. State five possible causes of this anomaly **(5mks)**

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7. Jeff bought a laptop from PC World Limited in Nairobi. The Sales person received the cash and then gave Jeff the warranty document to read and sign before he would issue him with a receipt. Describe three basic requirements that must be contained in this warranty document **(3mks)**

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8. State four features of Dynamic Random Access memory **(4mks)**

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9. Describe the functions of the following Disk management operations

(i) Disk Defragmentation **(2marks)**

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(ii) Disk Partitioning **(2marks)**

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10. Describe two reasons why smaller computers like Laptop tend to be more expensive than Desktops **(4mks)**

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11. Briefly describe how computers are used in Sport Management **(5mks)**

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12. Name three Input and three Output devices used by the cashier at the Electronic Point of Sale **(6mks)**

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13. State four limitations of Floppy disks **(4mks)**

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14. Name three devices that can be connected to the computer using the following interface cable

(i) VGA **(3marks)**

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(ii) Serial cable **(3mks)**

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15. The diagram below represent a computer component. Use it to answer the questions that follow



Figure 4

(i) Identify the component represented in Figure 4 **(1mark)**

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(ii) State two functions of the component in (i) above **(2marks)**

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16.

(i) State four examples of Registers used in a computer **(4mks)**

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(ii) Describe three functional elements of the Central Processing Unit **(3mks)**

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(iii) Explain what is meant by volatile memory in computer **(2mks)**

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17.

(i) Give four differences between Impact and Non-Impact printers (**4mks)**

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(ii) Range of capabilities is one of the factors one must consider when choosing a printer. State five features that a printer must possess to meet the requirements of this factor **(5mks)**

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18. List five precautions you would take to avoid damaging magnetic media **(5mks)**

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19. Give four features of USB interfacing cables **(4mks)**

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20. One of the functions of the operating system is to protect information and programs in a computer. Briefly describe five ways employed by the operating system to achieve this function **(5mks)**

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PROGRESSIVE STUDENTS FORM ONE
END TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

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

TERM 3
CHRISTIAN RELIGIOUS EDUCATION

FORM ONE (1)
Time: 2 Hours

ANSWER ALL QUESTIONS IN THE SPACES PROVIDED

1a) From the Genesis accounts of creation Outline **Seven** teachings about Human beings **(7mks)**

b) What are the consequences of breaking taboos in traditional African communities **(6mks)**

c) Identify **Seven** Pauline epistles **(7mks)**

2a) State the promises that God made to Abraham from Genesis 12:1-9 **(6mks)**

b) Describe the making of the Sinai Covenant **(9mks)**

c) Identify **Five** commandments given to the Israelites that teach on how Israelites are to relate to one another **(5mks)**

3a) What were the promises of God to David through prophet Nathan **(8mks)**

b) From the story of Naboth's vineyard explain the commandments' which king Ahab and Queen Jezebel broke **(6mks)**

c) State the qualities of Prophet Elijah a Christian leader should have **(6mks)**

4 a) Explain the African understanding of the hierarchy of beings **(7mks)**

b) Identify the places where worship is conducted in the African traditional communities. **(6mks)**

c) Outline the roles of diviners in African traditional Communities **(7mks)**

5a) Outline **Six** rituals performed during the birth of a baby in traditional African communities **(6mks)**

b) Identify **Seven** ways of naming in traditional African communities. **(7mks)**

c) What changes have taken place in the rite of imitation in Kenya today**.** **(7mks)**

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PROGRESSIVE STUDENTS FORM ONE
END TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

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

Term 3
ENGLISH (101)
FORM ONE (1)
Time: 2½ Hours

Instructions to the candidates

i. Write your name and admission number in the spaces above.
ii. Answer all the questions in the spaces provided.
iii. Check to ascertain that the paper has all the questions.

FOR EXAMINER'S USE ONLY

QUESTIONS	MAXIMUM SCORE	CANDIDATE'S SCORE
1. FUNCTIONAL WRITING	20	
2. COMPREHENSION	20	
3. ORAL SKILLS	30	
3. ORAL NARRATIVE	15	
4. GRAMMAR	15	
	100	

1. FUNCTIONAL WRITING

In the coming academic term, your school will host the annual talent show. You intend to invite nearby schools as well as the general public to the anticipated event. Write a public notice announcing the event and inviting other schools and the general public to attend. Remember to include: the names of the honoured guests, the various categories in which the students will compete and the prizes to be won. **(20Mks)**

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2. COMPREHENSION

Read the passage below and answer the questions that follow. (20 Marks)

Mrs. Maneno's twin sons, Kiprotich and Jowi had passed well in their KCPE examinations. She decided to share her experiences as a Form One student with them. She hoped this would help them know how to conduct themselves in the new schools.

"When I joined Marsabit Secondary School," Mrs.Maneno began, "I was very excited and settled down quickly. The only thing that I did not like was taking a cold bath early in the morning. Many of us were not used to this lifestyle and we dreaded it. Some girls would go to the shower rooms, undress, and pretend to be bathing. However, what they actually did was to scoop water with their hands and throw it over their shoulder to the wall behind them. They would then wet their towels a bit for them to appear like they had been used. Such girls thought they were fooling the whole school but in no time the secret was unveiled.

During the second week, our teacher complained about the odor in our classroom. They informed the matron. When the matron asked us whether we had been bathing, everybody said yes. Of course, she was not convinced and she promised to investigate further.

One afternoon after classes, we were all assembled in our dormitory. The matron threatened to have all of us undressed and washed by the other girls while she watched. This was not a welcome idea. After a brief tense moment, she ordered those who had not been bathing to step forward. At first, no one moved, then one girl stepped forward timidly and several others followed. They were ordered to go and scrub themselves clean and then report to the matron. Later in the afternoon, the matron talked to us about cleanliness.

I remember her emphasizing the need to take a bath at least once a day, twice if possible. She said that our bodies perspired a lot especially when it was hot, and there was a need which, if not washed off, resulted in body odour. She also reminded us about brushing our teeth every day to avoid dental problems and bad breath. She said toothpaste gives one fresh breath and kills germs. At this point, one girl raised her hand and asked, "Is it wrong to share toothbrushes with friends or family members?" Everybody turned to stare at her in disbelief. The matron told her it was wrong and also unhygienic. She also added that clean teeth gave one the confidence to talk or smile without fearing that there would be food particles on the teeth. In addition to that, she also mentioned that some students had a bad habit of spitting all over the compound.

She cautioned us against this behavior."

"Mum, do boys need to bathe daily like girls?" Kiprotich interrupted. "Yes, of course, they do," Mrs. Maneno replied. All the things I'm telling you apply to both boys and girls, and even adults." She then went on. "The matron informed us that the sharing of personal items like towels, basins, and other clothes was unhygienic and could lead to skin infections. She reminded us to hang our towels and underwear out in the sun to air them and kill germs. After our meeting in the dormitory, we went about our school routine, and were no more incidents of that nature. The good thing about that incident was that from that day onwards, Maritha, one of the girls who had not been bathing, became the cleanest girl in the school. At the end of the year, she was awarded the coveted award for the cleanest and neatest girl in the school."

At this point, Jowi interrupted and asked," Mum, you mean you didn't get the award?" Mrs. Maneno smiled and said, "I had my problems combing my hair and I hardly washed it. On several occasions, I had been sent out of class to comb my hair and polish my shoe." The twins looked at her, shock written all over their faces. They had always thought their mother had been the cleanest student because of the many lectures she gave them about cleanliness.

"Many girls," she continued," got into trouble over their long nails."

"What is wrong with keeping long nails?" Kiprotich wondered.

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"Well, there is nothing wrong with long nails," Mrs. Maneno said.

"The only problem is that many people don't clean the surface under the nails. The nails, therefore, become dirty and harbor germs. The best thing is to cut them short. Short nails are easy to manage, just like short hair," she concluded.

QUESTIONS

a) What did Mrs. Maneno find most difficult about adjusting to boarding school life? **(2Mks)**

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b) What did the girls who feared bathing do to seem to have bathed? **(2mks)**

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c) According to the passage, why should people clean their teeth? **(2mks)**

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d) Why is it important to take a shower daily? **(2mks)**

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e) Give three unhygienic habits mentioned in the passage. **(3mks)**

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f) Why do you think the patron said it is unhygienic to split all over? **(2mks)**

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g) Why should our nails be kept short? **(2mks)**

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h) From the passage, how can you tell that some girls changed their hygiene habits after the matron talked to them? **(2mks)**

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i) Which habits of good hygiene do you think students in your school can improve on? **(3Mks)**

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3. ORAL SKILLS

i) Underline the silent letter in the following words. **(4mks)**

a) Damn
b) History
c) Sandwich
d) Comb

ii) Supply a homophone for each word. (5mks)

a.Weak
b. Principle
c. Bury
d. Seed
e.Bread

iii) Read the sub-genre below and answer the questions that follow.

Challenger: I have a house with no door
Respondent: An egg

1. Identify the genre. **(1mk)**

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2. State two features of the genre. **(2mks)**

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3. Identify two functions of the genre. **(2mks)**

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iv) Underline the odd one out in each of the following set of words. **(4mks)**

a) Thailand, thigh, thought

b) Knight, kite, know

c) Chord, charm, chase

d) Photo, psychology, fish

v) The following words have been misspelled, correct the spelling. (3mks)

a) Proffesor-

b) Dissapoint-

c) Tommorow-

vi) Find four pairs of words that are pronounced the same in the following list. **(4mks)**

Sea, mud, plain, cat, mourn, bred, mad, farther, plane, further, moan, see, cut, bury, you, berry, ewe, bread.

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vi) In the following sets of words, identify the underlined speech sound that is odd from the rest and write it down. (5mks)

For example:

Cup, Queen, Kettle, Cease – **Cease**

i. Gene, **J**udge, **J**une, **G**ap

ii. Chair, **Ch**ord, **Ch**ore, **Ch**ain

iii. Phase, **P**light, **F**ame, **F**reight

iv. Think, **Th**an, **Th**eatre, **Th**ought

iv.Cynic, **C**ensus, **S**ugar, **S**ample

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4. ORAL NARRATIVES

Read the narrative below and answer the questions that follow. (15 Marks)

A Greedy Old Man and the Sausage

Once upon a time, there lived an old man. One day he paid a visit to his in-laws. On entering the house of his mother-in-law, he found that she had been roasting some meat, among which was a delicious-looking sausage and she was not in the house. He immediately took the sausage and quickly put it into his quiver. And it so happened that a piece of live coal had got stuck on the sausage but the old man didn't know. He quickly shut the quiver.

No sooner had he sat down than the owner of the house came in. They sat down to talk about the children's health. When they had finished, it was time for the old man to return to his home. Just then, the woman noticed smoke issuing from the quiver and asked the old man; "Paker, how come the quiver is smoking?" The man answered, "Oh. It's some naughty fire stick with a soft head that smokes whenever it comes into contact with soft wood and the arrows." The woman kept quiet and got up to escort her guest.

When they had walked only a short distance, the fire made a hole in the quiver and the arrows fell out, tiak! Together with the stolen sausage. The lady, who was walking closely behind, exclaimed: 'See, had I not known it! Then the old man fears that his sausage might be eaten.

Shouted, "Oh, Mr. Paker, please do not eat it!"

So while the lady ran home in shame, the greedy old man continued with his journey in extreme embarrassment. They showed each other their backs and there ends my story.

QUESTIONS

a) Who are the main characters in the story? **(2mks)**

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b) What is the name of the old man in the story? **(1mk)**

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c) Identify the oral features in the narrative. **(3mks)**

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d) Identify one character trait of the old man in the story. **(2mks)**

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e) What is the moral lesson in the story? **(2mks)**

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f) You are asked to narrate the story to your classmate, how would you make it interesting? **(5mks)**

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5. GRAMMAR

a) Fill in the blank spaces with the most appropriate word. **(3mks)**

i) Everyone attended the ……. (fist, feast)

ii) His speech was marred by his poor…… (pronunciation, pronounciation)

iii) Write your names in the ……. (foolscap, fullscap)

b) Fill in each gap with the correct article. **(3mks)**

a) This is …… useful device.

b) Of all the cats…….……..cheetah is the prettiest..

c) I believe it was …….…… honest answer.

d) Complete the given sentences with a reflexive pronoun. **(2mks)**

a) She seems to be very proud of.....

b) Will the TV switch ..... off?

d) Change the following sentences using the correct degree of the adjective given in the bracket. **(3mks)**

i. The novel was …… than the play. (exciting)

ii. I know I have a……..……..chance now than last time. (good)

iii. I didn't agree with that Sharon is ……..……. than her roommate. (pretty)

e) Form adverbs from the words in the brackets and use them to complete the sentences. **(2mks)**

i. The teacher asked the students to walk …….……to the hall. (quick).

ii. The team captain said the game was ……..….. played. (perfect).

f) Give the plural of the following words. **(2mks)**

a) Chief …….……

b) Goose ……..……

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PROGRESSIVE STUDENTS FORM ONE
END TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

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

TERM 3
GEOGRAPHY
FORM 1
TIME: 2 HOURS 30 MINUTES
INSTRUCTIONS:

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

FOR EXAMINER'S USE ONLY

Question	1	2	3	4	5	6	7
Candidate's Score							

TOTAL SCORE

1(a) List **two** types of environment **[2mks]**

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(b) State **three** areas of study in physical geography **[3mks]**

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(c) Explain the relationship between geography and mathematics **[2mks]**

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(d) State **three** social sciences studied in geography **[3mks]**

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2(a) Apart from the passing star theory, name **two** other theories that explain the origin of the solar system **[2mks]**

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(b) Explain the origin of the solar system according to the passing star theory **[3mks]**

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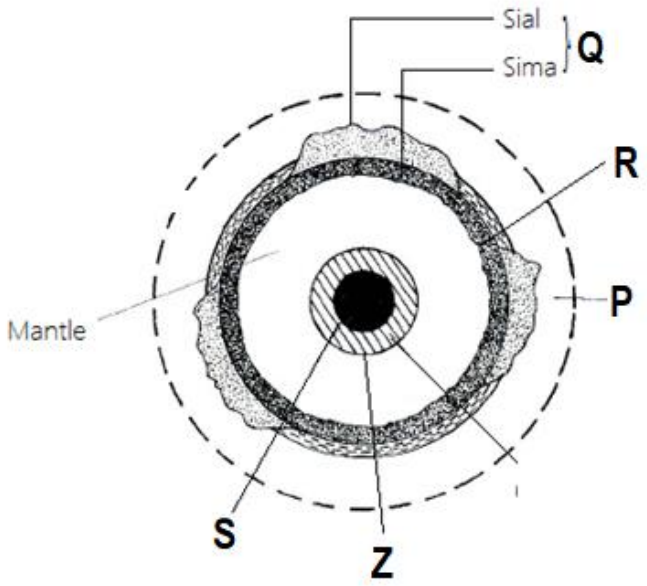
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(c). The diagram below shows the structure of the earth



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(i) **Name** the parts marked **[3mks]**

P……

Q ……..

S ……

(ii) Name the discontinuities marked **[2mks]**

R ……..

Z ……..

(iii) Name **three** minerals that that make up the layer marked Q **[3mks]**

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(d) List the first **three** planets in their order from the sun **[3mks]**

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(e) Distinguish between the rotation and the revolution of the earth. **[2mks]**

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(f) List any **three** components of the solar system **[3mks]**

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(g) Name any **two** main layers of the earth's atmosphere **[2mks]**

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3(a) What is weather? **[1mk]**

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(b) List down **three** elements of weather **[3mks]**

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(c) Other than water vapour, name **two** substances that are suspended in the atmosphere**.** **[2mks]**

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(d) (i) State **two** factors that are considered when classifying clouds. **[2mks]**

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(ii) Name **two** types of clouds that give rise to rainfall in the tropical regions. **[2mks]**

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(e) With aid of a well labelled diagram, **describe** the formation of relief rainfall. **[6mks]**

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(f). Your class intends to carry out a field study on weather experienced in the locality of your school.

(i) State **three** ways in which you would prepare for the study **[3mks]**

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(ii) State **three** methods you would use to record information collected during the field study **[3mks]**

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(iii)List **three** secondary sources of information you are likely to use as you prepare for your study. **[3mks]**

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4. The table below shows the approximate oil production in Africa for five years.

YEAR	PRODUCTION IN TONNES
2017	686,000
2018	291,000
2019	648,000
2020	233,000
2021	486,000

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(a) Calculate:

(i) The total production over the years **[2mks]**

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(ii) The average production. **[2mks]**

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(b) (i) Draw a simple bar graph to represent the above data. Use the scale 1cm represents 50,000 tonnes **[8mks]**

(ii) Give **three** advantages of using bar graphs to represent statistical data **[3mks]**

5. (a) Name **two** types of maps studied in Geography **[2mks]**

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(b) Give **four** marginal information found in maps **[4mks]**

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6. (a) What is a rock? **[1mk]**

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(b) List **three** classifications of rocks according to their mode of formation **[3mks]**

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(c) State **three** ways in which rocks are significant to man **[3mks]**

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7.(a)(i) Define mining **[1mks]**

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(ii) Name **two** methods of underground mining **[2mks]**

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(b) (i) Explain **two** factors that are considered before exploration of a mineral **[4mks]**

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(ii) Explain **three** problems facing mining in Kenya. **[6mks]**

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PROGRESSIVE STUDENTS FORM ONE
END TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

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

HISTORY AND GOVERNMENT (311)

FORM ONE (1)

Time: : 2 ½ HOURS

INSTRUCTIONS

- This paper has three sections i.e. Section A (25 marks), Section B (45 marks) and Section C 30 marks)
- Section A has Q1-17, Section B has Q18-20 while Section C has Q21 and Q22
- Answer all the questions in this paper
- All answers must be written in English

SECTION A (25 MARKS)
Answer all the Questions

1.State one unwritten source of Kenyan History **(1mk)**

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2. Name the archaeological site where the remains of Kenyapithecus were discovered in Kenya. **(1mk)**

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3. Identify one source of the creation theory **(1mk)**

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4. Give two reasons why human beings lived in groups during the Stone Age period. **(2mks)**

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5. Identify two ways through which early agriculture spread during the Stone Age period. **(2mks)**

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6. What was the main reason for the dispersal of the coastal Bantus from Shungwaya? **(1mk)**

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7. Give one reason for the migration of the Borana from Ethiopia into Kenya. **(1mk)**

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8. State two functions of Njuri Ncheke among the Ameru. **(2mks)**

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9. Identify the main reason why the Mijikenda lived in the Kaya **(1mk)**

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10. Mention two cultural practices that were adopted by the Maasai from the Southern Cushites. **(2mks)**

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11. Name the missionary society that established a home for freed slaves at the coast. **(1mk)**

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12. Highlight two factors which led to the increase in demand for slaves along the East African Coast during the 19th Century. **(2mks)**

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13. Identify the two main items of trade from the interior during the long distance trade. **(2mks)**

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14. Give two reasons why Oman Rulers were interested in establishing their control over the Kenyan Coast. **(2mks)**

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15. Name the document which contains the Bill of Rights for Kenyan citizens. **(1mk)**

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16. Give the meaning of citizenship. **(1mk)**

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17. Mention two practices that may interfere with national unity in Kenya **(2mks)**

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SECTION B (45 MARKS)
ANSWER ALL THE QUESTIONS

18. a. State three reasons why Africa is considered the cradle of mankind. **(3mks)**

b . Explain six results of the Agrarian Revolution in Britain. **(12Mks)**

19.(a) Mention <u>three</u> age grades of the Council of elders among the Akamba. **(3mks)**

(b) Describe <u>six</u> social effects of migration and settlement of Mijikenda community into Kenya. **(12mks)**

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20. a) Identify three religious practices among the Somali **(3mks)**

b) Describe six functions of the Oloiboni among the Maasai during the pre-colonial period **(12mks)**

SECTION C (30 MARKS)
ANSWER ALL THE QUESTIONS

21.a) Identify five written sources of History of East African Coast and Outside world before 10th Century A.D **(5mks)**

b) Explain five factors that promoted the trade between the East Africa and outside world/Indian Ocean trade **(10mks)**

22.a) Apart from Right to life, state other five rights and freedoms that are contained in the Bill of rights **(5mks)**

b) Explain six instances/ circumstances that limits right to life **(10mks)**

WORKING SPACE FOR SECTION B AND C

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PROGRESSIVE STUDENTS FORM ONE
END TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

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

FORM ONE
END OF YEAR EXAM
441/1
HOME SCIENCE
THEORY
Paper 1
2 Hours

INSTRUCTIONS

- Write your name, class and admission number in the spaces provided above.
- Sign and write the date of the examination in the spaces provided above.
- This paper consists of three sections **A**, **B** and **C**.
- Answer **ALL** questions in section **A**, **B** and any **TWO** questions from C.
- Answers must be written in the spaces provided.

For Examiners use only.

Section	Question	Maximum Score	Candidates Score
A	1-21	40	
B	22	20	
		20	
		20	
Total		100 marks	

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

SECTION A (40 MARKS)

Answer all the questions in the section in the spaces provided.

1.List **two** dry methods of cooking. **(1mk)**

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2.Mention **two** qualities of a good kitchen cleaning cloth. **(2mks)**

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3.Differentiate between a textile fibre and a fabric. **(2mks)**

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4.List **two** areas where daily Home Science activities apply scientific principles**.** **(2mks)**

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5.Mention **three** things that are important in grooming. **(3mks)**

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6.Give **two** points on the importance of learning First Aid. **(2mks)**

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7.Suggest **four** finishes that can be given to a wooden table. **(2mks)**

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8.Identify **two** qualities of a good site for building a family home. **(2mks)**

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9.Mention **two** reasons why cooks should generally wear white uniform/aprons**.** **(2mks)**

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10. Give **two** reasons why needlework pins should be stored in a small box/pin cushion. **(2mks)**

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11. Identify **two** essential items when working stitches. **(1mk)**

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12. Give **two** ways your family may benefit from your knowledge and skills in Home Science. **(2mks)**

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13. List **four** methods that can be used to cook potatoes. **(2mks)**

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14. Give **two** causes of shock. **(1mk)**

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15. Mention **three** ways of identifying textile fibres. **(3mks)**

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16. Name **four** needles used in sewing. **(2mks)**

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17. Suggest **two** reasons why a school dining hall should be kept clean. **(2mks)**

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18. Name **four** tacking stitches used in sewing. **(2mks)**

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19. Suggest **two** reasons why cleaning materials/equipment may be improvised. **(2mks)**

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20. Mention **two** reasons why a kitchen should be situated far from the bedrooms. **(2mks)**

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21. Give **two** hygiene rules that should be observed before going to sleep. **(1mk)**

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SECTION B (20 MARKS)

Compulsory

Answer all sections of this question in the spaces provided.

22. Your family is planning to visit and spend a weekend with relatives at a campsite.

a) Giving reasons describe how you would thoroughly clean a pair of muddy black canvas shoes with laces that you will wear when travelling. **(10mks)**

b) While at the camp your brother is injured on the leg by a sharp stick. Describe how you would go about administering First Aid to him. **(5mks)**

c) Describe the procedure you would follow to clean a chopping board used when cutting meat. **(5mks)**

SECTION C (40 MARKS)

*Answer any TWO questions from this section in the space provided after question 25***.**

23.

a) Outline **four** points to note when working hand stitches. **(4mks)**

b) Mention **six** different functions that a swing-needle machine can do. **(3mks)**

c) Explain **three** qualities of a fabric that would be best for a student learning to make needlework stitches. **(6mks)**

d) Suggest **four** reasons why hair should be cleaned and oiled frequently. **(4mks)**

e) Mention **three** safety rules that should be observed when constructing a pit latrine. **(3mks)**

24.

a) Explain **three** qualities of a good kitchen work surface. **(6mks)**

b) Outline **four** rules on care of cutting equipment. **(4mks)**

c) Mention **four** guidelines that may help a family avoid food spoilage and poisoning. **(4mks)**

d) Discuss **three** reasons why meat should be cooked. **(6mks)**

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25.

a) Explain **three** properties of cotton that make it suitable for making bath towels. **(6mks)**

b) Suggest **four** reasons why a family would prefer to build rather than buy a family home. **(4mks)**

c) Outline **four** ways of avoiding burns and scalds in the home. **(4mks)**

d) Permanent stitches can be divided into three categories. Name the three categories and give two examples of stitches in each **(6mks)**

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PROGRESSIVE STUDENTS FORM ONE
END TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

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

ISLAMIC RELIGIOUS EDUCATION/314
TERM THREE
FORM ONE
TIME: $2^1/_2$ HRS

INSTRUCTIONS:

1. This paper contains five (5) questions.
2. Answer all questions
3. Write your answers in the answer sheet provided.
4. All answers must be in English.

1. a) Explain the need for revelation of the *Holy Qur'an.* **(7mks)**
b) State the teaching of *Surah Fatiha.* **(7mks)**

2. a). Differentiate between Hadith and *Sunnah.* **(5mks)**
b) Discuss the contribution of hadith to Islamic thought and culture **(6mks)**
c) What are the lessons that Muslims can learn from Sheikh Abdallah Swaleh Al-Farsy? **(8mks)**

3. a) Give five differences between *Juma* and *Eid* prayers. **(5mks)**
b) Identify five obligatory steps of *Wudhu*. **(5mks)**
c) Give reasons why shirk is condemned in Islam. **(6mks)**
d). What is the relevance of believing in *Tawheed* (Oneness of Allah)? **(5mks)**

4. a) Explain why it is important for a Muslim to have good manners **(6mks)**
b) State five conditions of marriage. **(5mks)**
c) Discuss five importance of marriage in the society. **(6mks)**

5 a) Identify the early people to embrace Islam. **(7mks)**
b) Explain the importance of Hijra in the history of Islam **(8mks)**
c) State the terms of the Madina constitution **(6mks)**
d) Describe the achievements of Sheikh Al-Amin Mazrui in the spread of Islam in East Africa. **(8mks)**

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PROGRESSIVE STUDENTS FORM ONE
END TERM 3 SERIES ONE EXAMS

JINA: ……..……

SHULE: ……..……

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

MTIHANI WA KIDATO CHA KWANZA
MUHULA WA TATU
MUDA-2 $\frac{1}{2}$ (masaa)

MAAGIZO-Jibu maswali yote

1.UFAHAMU **(Alama 15)**

Soma taarifa ifuatayo kisha ujibu maswali yanayofuata.

Msimu wa ukeketaji kwa kisu cha ngariba ukaja na kwenda.Ngoma za msondo zikaimbwa na kupita.Wasichana na wavulana wakaingia unyagoni na jandoni na kutoka. Wengi walitoka salama.Wengine walilazimika kulazwa hospitalini ili kushonwa pale kisu cha ngariba kilipoteleza na kuwakata visivyo.

Ng'ambo ya Malmati karibu na kwa Mzee Muyaka ,kigoli moja alitokwa na damu hadi akafa. Nilikuwa miongoni mwa umati uliohudhuria mazishi yake sikwambii Mzee Muyaka ,mamake na mkewe.

Asubuhi moja nilishuhudia ngariba mmoja chongo akimtahirisha mvulana mmoja karibu na kituo cha Binge.Alimkata mpini ukaanguka.Umati ukaanza kumpiga kitutu ngariba huyo. Ni baadaye tu ndipo kijana **majeruhi** Jerumani alipopelekwa hospitalini Sangura.Nikaogopa kisu cha ngariba kuliko chochote kile maishani mwangu. Kila uchao nilikumbuka maneno ya Wangoi aliyoniambia siku ya kwanza kwao,"Sasa yakupasa mchungwachungwa uchunge sana. Watu wa Sangura wakijua hali yako **utatiwa suna** kwa nguvu."

Sikuwahi kumwona Wangoi tena.Naye Jerumani akasahaulika kabisa.Nilipokwenda kutazama mpira sokoni Binge,wachezaji walienda kupiga shuti juu kwa juu 'shemeji njoo uone' mashabiki waliendelea kuwazomea na kuwashangilia wachezaji kana kwamba Jerumani mchezaji hodari wa timu hii hakuwahi kuwepo.Wepesi wa kusahau hawa!Nilitamani nami niwe mwepesi wa kusahau niyasahau masaibu ya nyumbani kwetu Baraki. Nilijaribu kusahau hofu kuhusu hatima ya babangu mpenzi aliyeugua ugonjwa wa saratani.Nilijaribu kumsahau Tim rafiki yangu wa kufa kuzikana .Nikikwambia nilifaulu kuyasahau haya basi hakuna mwongo kama mimi.

Siku moja katika mwaka wangu wa pili mjini Sangura,nilikuwa nasikiliza redio na Mzee Muyaka nje ya nyumba yake.Redio ilitangaza kuwa kulikuwa na hali ya dharura katika kijiji cha Baraki .Kuwa na hali ya mafuriko yaliosomba majumba ya wakazi wa Baraki ,mali ,mazao na hata mifugo.Habari hii ilinitia kiwewe ,hofu na wasiwasi kuhusu hatima ya familia yangu. Niliamua kupanga safari ya dharura kurudi kwetu ili kujua hali ya familia yangu…

Maswali

a) Eleza athari mbili za ukeketaji kulingana na kifungu hiki. **(alm2)**

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b) Ni jambo gani lilimfanya mwandishi kuogopa kisu cha ngariba. **(alm2)**

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c) Taja maneno ya Wangoi anayokumbuka msimulizi. Alimaanisha nini? **(alm4)**

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d) Msimulizi alitamani kusahau nini? **(alm2)**

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e) Eleza maafa yaliopata kijiji cha Baraki. **(alm2)**

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f) Taja maana ya msamiati ufuatao kama ulivyotumiwa katika kifungu. **(alm3)**

i) Ngariba

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ii) Majeruhi

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iii) Utatiwa suna

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2. MATUMIZI YA LUGHA (alm40)

a) i) Taja aina za sauti za Kiswahili. **(alm1)**

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ii) Andika sauti ambazo ni nazali. **(alm1)**

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b) Akifisha sentensi ifuatayo ili iwe katika kauli tofauti . **(alm3)**
Rais amewasili

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c) Badilisha sentensi hizi katika hali ya umoja au wingi. **(alm2)**

i) Askofu anahubiri Injili kanisani.

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ii) Nyavu za kuvulia samaki zina mashimo makubwa.

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.....

d) Bainisha aina za maneno katika sentensi zifuatazo: **(alm2)**

i) Swazirina ni mtulivu.

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ii) Lo!Umemaliza chakula chote?

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e) Taja aina tatu za sentensi. **(alm3)**

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f) Tambulisha kauli za vitenzi vilivyotumika katika sentensi hizi. **(alm2)**

i) Marafiki wale walichezeana shere.

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ii) Alimpigia mchezaji mpira.

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g) Bainisha viambishi awali na tamati katika maneno yafuatayo: **(alm2)**

i) Tuliwafurahia

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ii) Sokoni

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h) Bainisha aina za mofimu **(alm2)**

i) Chapa

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ii) Baba

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iii) Maovu

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iv) Dada

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i) Tambua aina za nomino katika sentensi hizi **(alm2)**

i) Kikosi cha askari kiliongoza gwaride jana.

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ii) Januari ni mwezi wa kwanza katika mwaka.

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k) Tumia maneno haya katika sentensi kama velezi. **(alm2)**

i) Shule

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ii) Jana

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l) Tumia kivumishi kisisitizi cha karibu sana kukamilisha hii sentensi. **(alm2)**

Ni gurudumu ----------ulionalo.

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m) Tunga sentensi katika umoja pamoja na –enyewe. **(alm2)**

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n) Pigia mstari viwakilishi na ubainishe ni vya aina gani **(alm2)**

i) Alikuwa akienda sokoni mapema.

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ii) Kikulacho ki nguoni mwako.

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o) Kanusha sentensi zifuatazo. **(alm2)**

i) Angesoma kwa bidii angepita mtihani.

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ii) Ukiingia ndani utasaidiwa.

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p) Andika sentensi ifuatayo katika ukubwa. **(alm2)**

Mwizi alivunja nyumba yetu jana usiku.

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q) Onyesha kundi nomino na kundi tenzi katika sentensi ifuatayo; **(alm2)**

Rubani mwoga anaendesha ndege.

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s) Tumia vitate hivi katika sentensi moja ili kubainisha maana. **(alm2)**

i) Vaa

ii) Faa

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3) **ISIMUJAMII** **(alm 10)**

Soma kifungu hiki kisha ujibu maswali yafuatyo.

Long'ii ni mia,pata na mia ,hundred bob, kuona ni bure.Viatu ni za aina zote .Buda karibu ujionee!Niaje maze come tu… karibia ujionee .Hata za manzi wako ziko.Mali motomoto kutoka ng'ambo .Watu wote wanabuy huku !Dungaree ni soo mbili za watoi na wasupa.

a) Tambua sajili hii. **(alm2)**

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b) Eleza sifa za lugha iliyotumiwa katika sajili hii. **(alm8)**

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4) **FASIHI SIMULIZI** **(alama 15)**

Soma kifungu kifuatacho kisha ujibu maswali

Wanyama wa pori waliamua siku moja kumtuma mnyama mmoja kila siku alikoishi simba kama chakula cha mnyama huyu.Siku moja ilikuwa zamu ya sungura kwenda huko.Sungura alikuwa mjanja sana.Alipanga mpango mzuri wa kumwangamiza simba.

Alienda alikoishi simba muda mrefu baada ya muda wa chakula wa simba.Alimkuta simba akiwa na hasira kubwa sana.

"Kwa nini umechelewa jinsi hii?" aliuliza kwa hasira.

"Bwana wee,"alisema sungura kwa sauti ya upole.

"Nimechelewa kwa sababu simba mwingine alinikimbiza .Nilitaabika sana kabla ya kupata upenyu wa kutoka."

"Simba mwingine? Je,yuko katika pori hili?"aliuliza simba.

"Ndio bwana mkubwa.Najua anakoishi .Tuandamane nikakuonyeshe ,"alisema sungura.

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Simba alikjitayarisha kuandamana na sungura.Sungura aliongoza njia hadi walipofika mahali palipokuwa na kisima kikubwa.Sungura alimgeukia na kusema ,"Anaishi hapa. Tafadhali njoo tumwone!"
Simba alisogea ulipokuwa ukingo wa kile kisima .Aliyatupa macho humo na kukiona kivuli chake.Alidhani kuwa huyo alikuwa simba mwingine. Kwa hasira kubwa alifungua kinywa na kunguruma .Alimwona huyo simba mwingine akimkenulia meno.Simba hakuweza kusubiri ,alijitosa kisimani ili apambane na simba huyo.Huo ukawa mwisho wake.Sungura aliondoka akicheka akifurahi kuwa sasa wanyama hawataliwa tena na simba.

Maswali

a) Tambua aina hii ya hadthi. **(alm2)**

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b) Taja sifa tatu za kutambulisha aina hii ya hadithi. **(alm3)**

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c) Anayesimulia hadithi huitwaje? **(alm1)**

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d) Taja umuhimu wa fomyula ya ufunguzi katika hadithi. **(alm4)**

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e) Eleza sifa tano za mtambaji bora katika Fasihi simulizi. **(alm5)**

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PROGRESSIVE STUDENTS FORM ONE
END TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

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

Term 3
MATHEMATICS (Alternative A)
FORM ONE (1)
Time: 2½ Hours

INSTRUCTIONS TO CANDIDATES

(a) Write your name, admission number, school and class in the spaces provided at the top of this page.
(b) 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 **all** the 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.**

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	Total	Grand Total	

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SECTION I (50Mrks)

Answer ALL the Questions in the section

1.Evaluate: **(4mks)**

$$\frac{2\frac{1}{2}\ of\ 1\frac{3}{4} - 5\frac{1}{4}}{1\frac{2}{5} + 2(1\frac{1}{4} - 2\frac{3}{4})}$$

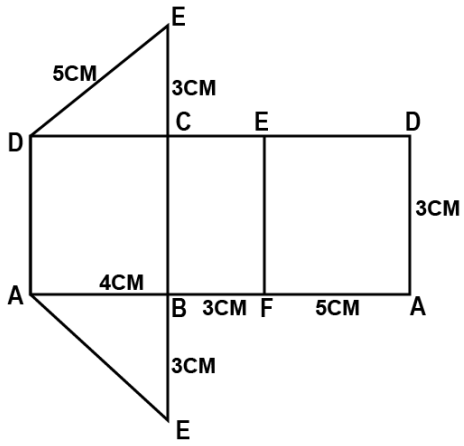
2.An electrician made a loss of 30% by selling a multi plug at Sh. 1400. What profit would he have made if he sold the multi plug at sh 2300. **(3mks)**

3.Harell had 985 bales of baking flour in his store. He sold 497 of them. If each bale contained 12 packets, how many packets remained? **(3mks)**

4.Simplify 4(q+6) + 7(q-3) **(3mks)**

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5.The figure below shows a net of a solid.



a) Sketch the solid of the net showing the hidden edges with broken lines. **(2mks)**

b) Find the total surface area of the solid. **(2mks)**

6.It would take 15men 8days to dig a trench of 240m long. Find how many days it would take 18men to dig a trench 360meters long working at the same rate. **(3mks)**

7.A regular polygon is such that its exterior angle is one eighth the size of interior angle. Find the number of sides of the polygon. **(3mks)**

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8. Convert $0.\dot{6}\dot{3}$ to a fraction **(3mks)**

9. A Canadian tourist arrived in Nairobi with Canadian dollars 6200. She converted all his money into Kenya Shillings and then spent a total of Kshs. 100,000. She paid her Kenyan tour guide a commission equivalent to 20% of the remainder. Given that 1 canadian dollar = Ksh. 48.12. calculate

i. How much she got in kenya shillings after converting all her money. **(1mk)**

ii. The amount of kenya shillings she was left with at the end. **(2mks)**

10. Without using tables, evaluate $\frac{\sqrt{729x625}}{225}$ **(3mks)**

11. A father is now four times as old as his son. Five years ago, he was exactly one year and half times as old as his son will be in ten years from now. Determine the sum of their present ages. **(4mks)**

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12. An arc length of 11cm subtends an angle of 140° at the circle. Find the area of the enclosed sector. **(3mks)**

13. A sum of money is divided among three men X, Y and Z in the ratio 5:3:1. If Y has ksh 700 more than Z, calculate how much X **has** **(3mks)**

14. Evaluate $-4^2+-2(10\div-5)-(-17)$ **(3mks)**

15. An Educational complex has a nursery school, primary school and a secondary school. A lesson in the nursery school last 60 min, while in primary it last 30 minutes and in secondary it lasts 40 min. The lesson began at 8.00 am on Monday. At what time of the day again shall they begin together **(3mks)**

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16. 2.5 litres of water of density 1.1g/cm^3 is added to 5 litres of alcohol of density 0.8 g/cm^3. Calcultate the density of the mixture. **(3mks)**

SECTION II (50 marks)

Answer all the questions from this section

17. (a) Riggy G traveled to London with ksh 360,000. He exchanged the Kenya shilling for sterling pounds on arrival when the exchange rate was £1 sterling pound = ksh 104. Determine to the nearest pound how much he received if the bank charged him 2½ % commission. **(4mks)**

(b) In London, he spent £2025 and then traveled to Washington D.C where he exchanged the balance of his money for US dollars. The rate of exchange was £1 sterling pound = 1.6 US dollar. How much did he receive in US dollar assuming no commission was charged? **(3mks)**

(c) He spent ¾ of the money and then traveled back to Nairobi. He exchanged the remaining dollars into Kenya shilling at the rate 1U.S dollar = Ksh 73.25. How much did he receive in Kenya shilling assuming that no commission was charged **(3mks)**

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18. Three ships X, Y and Z are approaching a habour H. X is 150km from the habour on a bearing of O90°. Y is 130km from the habour on a bearing of 130°E and Z is 180km to the west of Y.

a) Taking a scale of 1cm to represent 20km, make a scale drawing of the routes of the three ships to the habour. **(6mks)**

b) What is the distance between ships X and Z? **(2mks)**

c) Find the bearing of H from Z. **(2mks)**

19. in a certain meeting, there were 95men in attendance. There were 50 more women than men and twice as many children as men.

a.Determine the number of people in attendance. **(2mks)**

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b. Find the percentage of children in attendance, correct to 3 significant figures. **(2mks)**

c. A hall for the meeting was fitted with benches that could accommodate either10 children or 7 adults per bench.

Find the number of benches

i. Used by the children **(2mks)**

ii. Completely filled by the adults. **(2mks)**

iii. Adults who would fill the unoccupied space. **(2mks)**

20. Using a ruler and a pair of compasses, construct parallelogram ABCD such that AB = 8cm, diagonal AC = 12cm and angle BAC = 22.5° **(4mks)**

a) Measure **(i)** The diagonal BD **(1mk)**

(ii) The angle ABC **(1mk)**

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b) Draw the circumference of triangle ABC **(2mks)**

c) Calculate the area of the circle drawn **(2mks)**

21. A slaughter house bought a number of goats at sh. 2000 each and a number of bulls at sh. 15,000 each. They paid a total of sh. 190,000. If they bought twice as many goats and three bulls less, they would have saved sh. 5000.

(a) Find the number of each type of animal bought **(5mks)**

(b) The slaughter house sold all the animals at a profit of 25% per goat and 30% per bull. Determine the total profit they made**.** **(5mks)**

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PROGRESSIVE STUDENTS FORM ONE
END TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

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

Term 3
PHYSICS
FORM ONE (1)
Time: 2½ Hours

Instructions to Candidates

- Write your name, admission number, class and signature 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 spaces provided.
- Mathematical tables and electronic calculator may be used.
- All working MUST be clearly shown.
- Candidates should answer the questions in English and check to ensure that no question(s) is missing.

FOR EXAMINER'S USE ONLY

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATE'S SCORE
A	1 – 11	25	
	12	11	
	13	11	
	14	12	
	15	10	
	16	11	
TOTAL SCORE		80	

SECTION A (25 MARKS)

Answer all the questions in this section in the spaces provided.

1. A thin wire was wound **10** times closely over a boiling tube. The total length of the wire wound around was found to be **440mm**. Calculate the radius of the boiling tube in **SI** units. **(3Mks)**

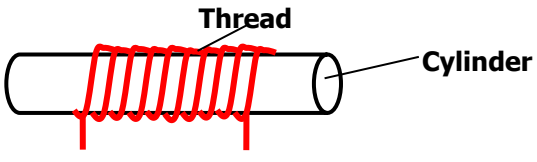


Figure 5

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2.State what the following branches of physics deals with:

(i) Mechanics. **(1mk)**

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.....

(ii) Thermodynamics**.** **(1mk)**

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3.A bag of sand is found to have the same weight on planet earth as an identical bag of cotton on planet Jupiter. Explain why the masses of the two bags must be different. **(2mks)**

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4.Explain why brakes fail in a hydraulic brake system when air gets in to the system. **(1mk)**

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5.Water was added to fill a flask containing some mass of salt. The container was sealed with a cork and shaken thoroughly to dissolve the salt. It was noticed that the level of the liquid dropped.



Figure 6

Explain the observation made above . **(1mk)**

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6.The Figure below shows a clinical thermometer which is not graduated.

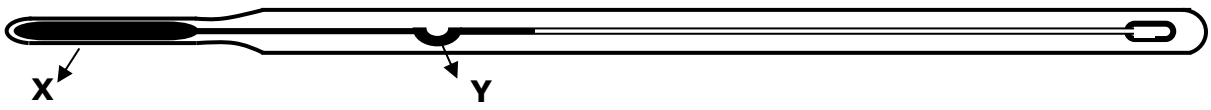


Figure 7

(i) Name the parts indicated with letters: **X** and **Y.** **(2mks)**

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(ii) What is the function of the part labelled **Y**. **(1mk)**

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(iii) State the appropriate scale range in degrees Celsius of the thermometer**.** **(1mk)**

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7.Recharging is one of the practices of maintenance of accumulators. State two measurements, which need to be taken to help you decide when an accumulator is due for charging. **(2mks)**

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8.The figure 4 below shows a charged rod held close to the cap of an uncharged leaf electroscope.

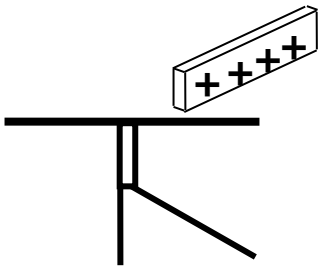


Figure 8

If the cap is momentarily earthed before removing the charged rod, what charge is left on the electroscope? **(1mk)**

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9.A pinhole camera forms an image of size **10cm**. The object is **5m** tall and **20m** away from the pinhole. Find the length of the pinhole camera. **(3mks)**

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10. The height of mercury column in a barometer is found to be **76cm** at a certain place. What would be the height on a water barometer in the same place? (Density of water is **1000kg/m^3** and density of mercury is **13600kg/m^3**). **(3mks)**

11. The Figure 5 below shows a hot water bath with metal rods inserted through one of its sides. Some wax is fixed at the end of each rod.

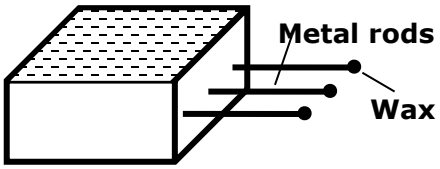


Figure 9

(i) What property of metals could be tested using this set-up? **(1mk)**

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(ii) Besides the length of the rods that is kept constant, what else should be kept constant when comparing the property for the different metal rods**.** **(2mks)**

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SECTION B (55 MARKS)

Answer all the questions in this section in the spaces provided

12. a.) State the principle of transmission of pressure in fluids**.** **(1mk)**

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b.) Describe a simple experiment to demonstrate that pressure at a point in a liquid depends on its depth. **(3mks)**

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c.) The gravitational pull in planet Jupiter is 24.8 N/kg. Calculate the weight of an object in Jupiter given that its weight on earth is 550 N**.** **(3mks)**

d.) A metal pin was observed to float on the surface of pure water. However, the pin sank when a few drops of soap solution were carefully added to the water. Explain. **(2mks)**

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e.) Distinguish between a scalar and a vector quantity, giving an example of each. **(2mks)**

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13. a.) Differentiate between heat and temperature**.** **(2mks)**

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b.) The figure 6 below shows a box with two glass tubes A and B projecting from the top of a rectangular wooden box with removable glass front.

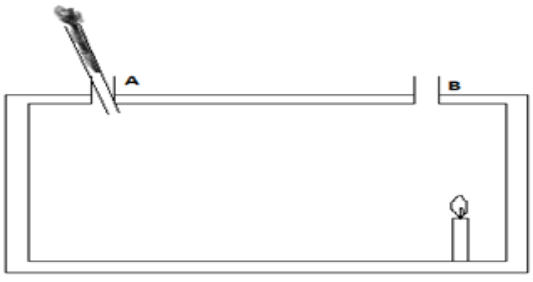


Figure 10

(i) What will be the direction of the smoke through the box? **(1mk)**

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(ii) What conclusion can be made from the observation? **(1mk)**

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c.) Why are the ventilations for a room made high up the roof**?** **(1mk)**

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d.) You are provided with the following items; Boiling tube containing water, ice wrapped in a wire-gauze, Bunsen burner. Describe how you would use them to conduct an experiment to show that water is a poor conductor of heat. **(4mks)**

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e.) State two advantages of mercury over alcohol as a thermometric liquid**.** **(2mks)**

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14. a.) Figure 7 below shows a ray of light being incident on a mirror.

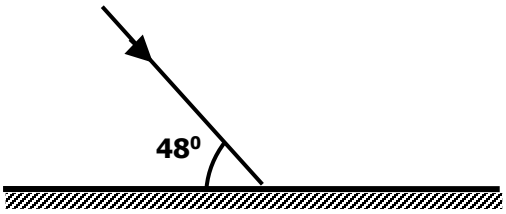


Figure 11

What is the angle of reflection? **(2mks)**

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b.) State two differences between images formed by pinhole camera and a Plane mirror. **(2mks)**

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c.) A student placed three cards each with a small hole at the Centre in a straight line as shown below.

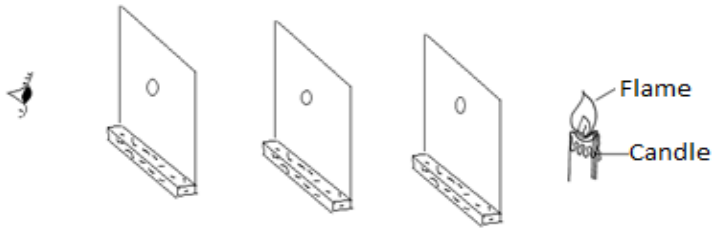


Figure 12

(i) State the aim of the experiment. **(1mk)**

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(ii) If one of the cards was displaced slightly to the left, state what would be observed. **(1mk)**

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d.) The figure 9 below shows an object placed Infront of a pinhole camera. Using rays, show how the image is formed on the screen. **(3mks)**

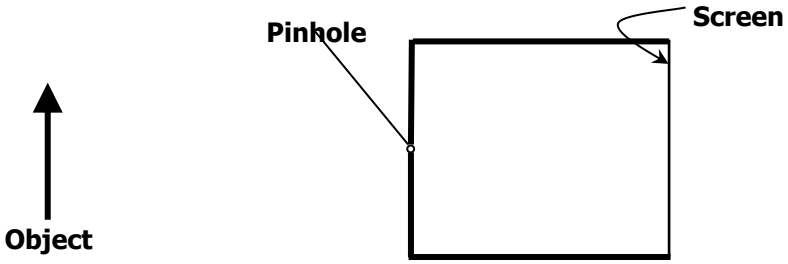


Figure 13

e.) When two mirrors are placed at an angle to each other, five images are formed between the mirrors. Calculate the angle between the mirrors**.** **(3mks)**

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15. a.) Explain why repulsion is the surest test for electrostatic charges. **(2mks)**

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b.) State and explain two uses of a gold-leaf electroscope. **(2mks)**

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c.) A perfume can be smelled some distance away. Explain. **(1mk)**

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d.) In the figure 10 below, ammonia gas and hydrochloric acid gas diffuse and react.

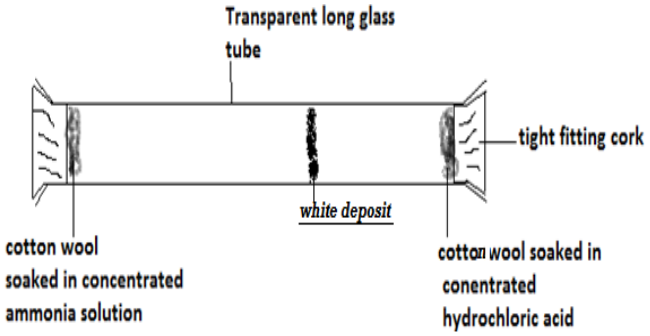


Figure 14

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

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e.) The behavior of smoke particles in air was observed using the apparatus shown below

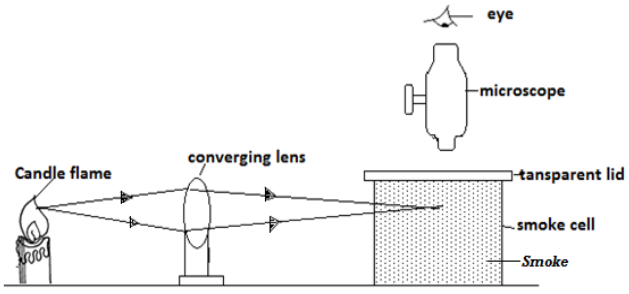


Figure 15

(i.) Why are smoke particles suitable? **(1mk)**

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(ii) Briefly describe what would be observed when the smoke-cell is viewed using a microscope. **(1mk)**

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(iii) What would be the difference on smoke particles if viewed when the temperature is increased. **(1mk)**

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16. a.) Distinguish between a primary cell and a secondary cell. **(2mks)**

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b.) State the two common defects in a simple cell. **(2mks)**

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c.) Explain how the defects in b) are minimized. **(2mks)**

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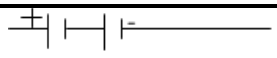
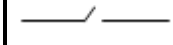
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d.) Calculate the amount of charge passing through a point in a circuit if a current of **5A** flows for **1.5** minutes.

(3Mks)

e.) The table below shows some devices used in simple circuits alongside their symbols. Complete the table as necessary**.** **(2mks)**

Device	Symbol
A	
Battery	
B	

#END#

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