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



PROGRESSIVE STUDENTS
FORM ONE
MID TERM 3 SERIES 1 EXAMS

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ORDER OF THE 14 SUBJECTS TESTED

(ALPHABETICALLY ARRANGED)

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

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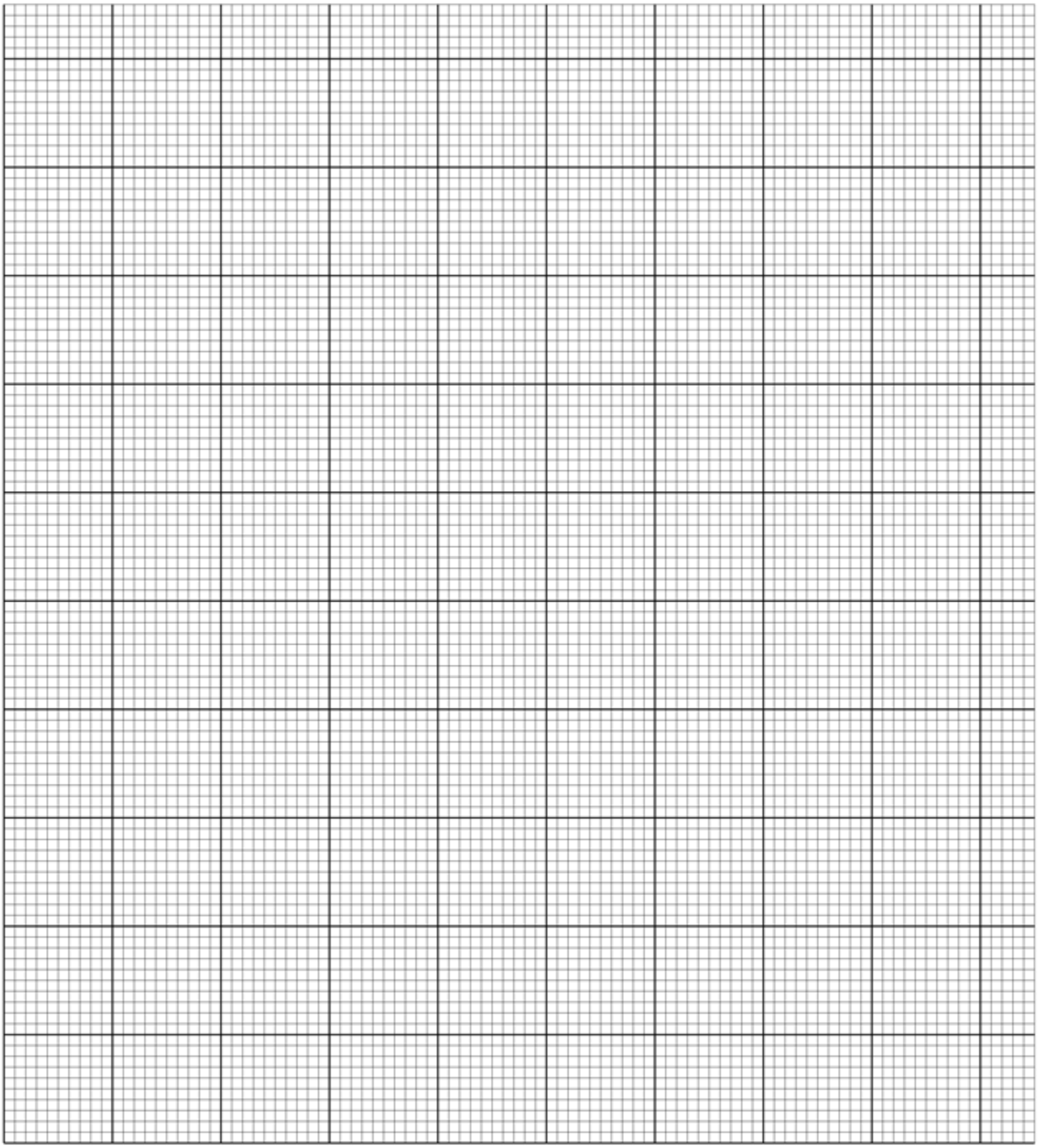
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PROGRESSIVE STUDENTS FORM ONE
MID TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

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

443

AGRICULTURE

FORM ONE

TIME. 2 HOUR

Kenya Certificate Of Secondary Education. (K.C.S.E)

Instruction to candidates

a) Write your name admission number and did in the spaces provided at the top of the page

b) Answer all questions in the spaces provided

c) These examination paper consists of printed pages

d) Check to confirm that no question is missing

e) Ensure your work is neat

SECTION	MAXIMUM SCORE	STUDENTS SCORE
A	30 Marks	
B	20 Marks	
C	40 Marks	

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SECTION A 30 MARKS

Attempt all questions in this section in this space is provided after the questions

1) Study the following statements and identify which statement describes agriculture as an art or a science in the space provided

a. Cultivation of land to plant crops by measuring distances and using a tractor to cultivate the land **(1mk)**

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b. Controlling diseases in crops and animals and studying the characteristics of the soil so as to get the best produce from both crops and animals **(1mk)**

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2) Give the method of horticulture which deals with

a. Growing of cabbages and tomatoes **(1mk)**

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b. Growing of cabbages and tomatoes growing of avocado and mangoes **(1mk)**

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3) Give four methods of livestock farming **(4mks)**

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4) Distinguish between the terms "a farming system" and a "method of farming" **(2mks)**

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5) Give the tools used to carry out the following activities **(2mks)**

a. Smoothen curved surfaces

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b. Marking metal surface before drilling

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c. Holding planks of wood when making a door

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d. Checking whether a cow is suffering from mastitis

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6) Distinguish between superfluous water and hygroscopic water **(2mks)**

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7) Give two factors which influence soil colour. **(2mks)**

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8) Give two ways chemical weathering takes place **(2mks)**

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9) Give the meaning of the term soil fertility **(2mks)**

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SECTION B(20 MKS)

ANSWER ALL QUESTIONS IN THE SPACES PROVIDED AFTER THE QUESTION.

10) Study the diagram below and answer the questions that follow



A



B

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a. State the activities carried out in picture A and picture B **(2mks)**

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b. State three characteristics in the methods of farming shown above **(3mks)**

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11) Explain five reasons for maintaining tools **(5mks)**

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12) List four factors that determine the choice of a pipe in farming **(4mks)**

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13) List four reasons of land preparation **(4mks)**

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14) What is a soil profile **(2mks)**

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SECTION C (40 MKS)

Answer any 2 questions either15,16 or 17 on the spaces provided after question 17

15) (a) Describe how you maintain a knapsack sprayer **(10mks)**

(b) Explain how soil texture influences crop production **(10mks)**

16) Explain the

a. Five negative effects of temperature on agricultural production **(5mks)**

b. Five negative effects of wind in agricultural production **(5mks)**

c. Six positive effects of living organisms in agricultural production **(6mks)**

d. Four methods of modifying soil pH **(4mks)**

17)

a. List four ways of carrying out minimum tillage. **(4mks)**

b. Describe four factors that determine the number of times secondary cultivation is carried. **(4mks)**

c. Describe chemical treatment of water **(12mks)**

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PROGRESSIVE STUDENTS FORM ONE
MID TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

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

BIOLOGY
FORM ONE (1)
Time: 2½ Hours

INSTRUCTIONS

- All Questions are Compulsory
- Write your Answers in the Spaces Provided
- Wrong Spelling of Technical Terms shall be Penalized

Max Score	Student's Score
80	

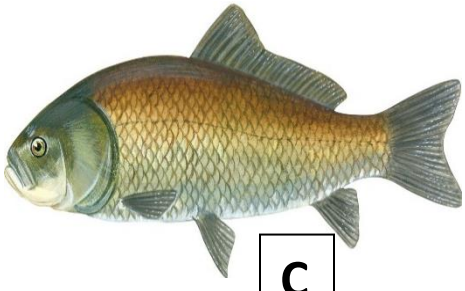
1. Study the photographs below of three living organisms: **A, B** and **C**. Answer the following questions.



A



B



C

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(i) Fill out the following table to identify organism A and B, and the external features on each one of them. **(2Mks)**

ORGANISM	EXTERNAL FEATURE	IDENTITY
A		
B		

(ii) Name the apparatus a scientist would use to collect organism **C** as a specimen for study in the lab from its natural habitat. **(1Mk)**

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(iii) Name the branch of Biology that deals with the study of the following organisms:

Organisms **B** and **C**. **(1Mk)**

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Organism **A**. **(1Mk)**

……..

2. Catalase is an enzyme found in plant and animal cells. It catalyses the breakdown of hydrogen peroxide to form water and oxygen.

$2H_2O_2 \longrightarrow 2H_2O + O_2$

hydrogen peroxide — water — oxygen

(a) A student investigated catalase activity in cooked and uncooked potato tissue. Suggest the expected result with the:

(i) Cooked potato **(1Mk)**

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(ii) Uncooked potato **(1Mk)**

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(iii) Give a reason for your answer in 2(a)(i) **(1Mk)**

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(b) Describe how the presence of Oxygen would be tested and confirmed in this experiment. **(2Mks)**

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3. Potatoes contain starch. Starch can be broken down into reducing sugars. Describe the tests to identify reducing sugars and give the results of the positive tests.

Reducing sugars **(2Mks)**

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4. The photograph below shows a woodlouse



(i) The magnification of the woodlouse is X10. Measure the length of the line PQ in millimeters.

Length of PQ **.....** **mm.** **(1Mk)**

(ii) Calculate the actual Length of the woodlouse in millimeters. (Show your working) **(2Mks)**

(iii) Name the apparatus a student would use to study very small structures on the surface woodlouse out in the field. **(1Mk)**

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5. A student viewed a plant cell under a light microscope. He used the eyepiece lens magnification of X5 and objective lens of magnification of X40.

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Calculate the total magnification (show your working). **(2Mks)**

6. State two ways in which a microscope should be taken care of before storage. **(2Mks)**

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7. The Table below shows some large insoluble molecules, some digestive enzymes and some smaller soluble molecules that are produced during digestion.

(i) Complete by writing the names of the missing enzyme and molecules **(3Mks)**

insoluble molecule	**enzyme**	**soluble molecules**
Starch	amylase	Reducing sugars
Fat		
	protease	Amino acids

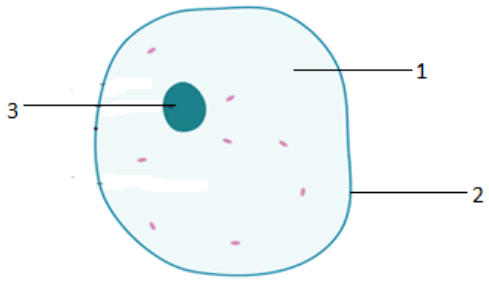
(ii) List the chemical elements present in fats. **(1Mk)**

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8. The diagram below shows an animal cell.



(i) Identify the parts labelled 1, 2 and 3. **(3Mks)**

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(ii) Name two structures in plant cells that are absent in animal cells**.** **(2Mks)**

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(iii) Name the form of carbohydrate stored in the above cell**.** **(1Mk)**

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9. Some cells are specialised to perform a particular function. The names of some specialised cells are given below. Give the functions of the specialized cells**.** **(2Mks)**

(i) Redbloodcells

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(i) Root hair cell

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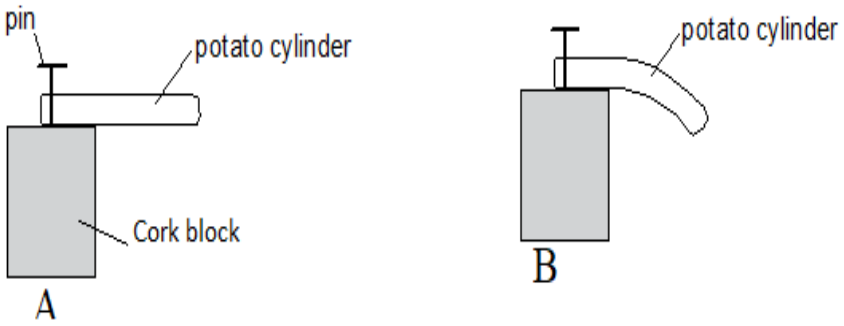
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10. Name the process by which Carbon (IV) oxide and Oxygen move in and out of a mesophyll cell. **(1Mk)**

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11. Four freshly cut potato cylinders were soaked for one hour in different salt solutions. The potato cylinders were then pinned to cork blocks. Two of the potato cylinders are shown.



(i) Identify the concentration of solutions the potato cylinders **A** and **B** were soaked in**.** **(2Mks)**

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(ii) Explain the appearance of cylinder **B.** **(3Mks)**

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12. The Mulanje cedar, *Widdringtonia whytei*, is the national tree of Malawi.

(i) State the genus name of the Mulanje cedar tree. **(1Mk)**

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(ii) Write the scientific name of Mulanje cedar tree. **(1Mk)**

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13. All living organisms release energy from nutrient molecules within their cells. What is the name of this characteristic. **(1Mk)**

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14. The horse, *Equus ferus*, and the donkey, *Equus asinus*, are able to interbreed. The offspring they produce is called a mule.

(i) Will the mule be able to give birth to a young one when it grows and matures for reproduction? **(1Mk)**

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(ii) Give a reason for your answer in 14(i) above. **(1Mk)**

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15. Give a reason for the following in preparation of temporary slides in microscopy.

(i) Placing a drop of water on the specimen. **(1Mk)**

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(ii) Dropping the coverslip gently on the specimen by the use of a mounted pin. **(1Mk)**

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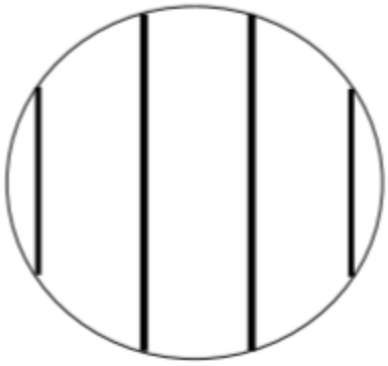
(iii) Covering the specimen with a cover slip**.** **(1Mk)**

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16. During a Biology practical lesson in the laboratory, to estimate the size of onion epidermal cells, a form one observed the following on the microscope field of view.



(a) Define the term resolving power. **(1mk)**

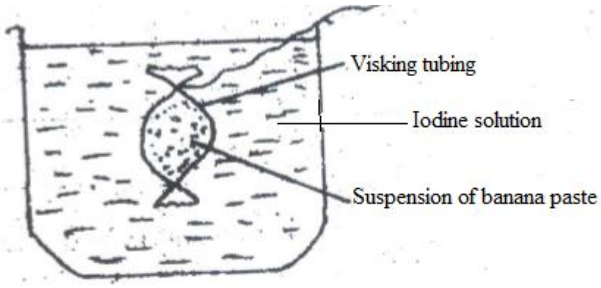
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(b) If the student counted 8 cells across the diameter of the field of view, calculate the size of one cell in micrometers. **(2Mks)**

17. In an investigation, raw banana was peeled, mashed into a paste and was treated as shown in the set- up below. (Note; raw banana has starch)



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

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(b) State the expected colour of the solutions **inside** and **outside** the visking tubing after 30 minutes.

(i) Inside **(1Mk)**

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(ii) Outside **(1Mk)**

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(iii) Explain the observation made in17 (b) (i) above. **(2Mks)**

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18. The diagram below shows an apparatus used in biological study.



(i) Name the apparatus shown above**.** **(1Mk)**

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(ii) State its function**.** **(1Mk)**

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19. The diagram below represents a cell organelle.



(i) Identify the organelle. **(1Mk)**

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(ii) Name the parts labeled X and Y. **(2Mks)**

X ……..…….

Y ……

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20. Name the organelle that performs each of the following functions in a cell.

(i) Transport of cell secretions. **(1Mk)**

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(ii) Protein synthesis. **(1Mk)**

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21. Explain what would happen to red blood cells if they are placed in a concentrated salt solution. **(2Mks)**

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22. (i) State the role of light in photosynthesis. **(2Mks)**

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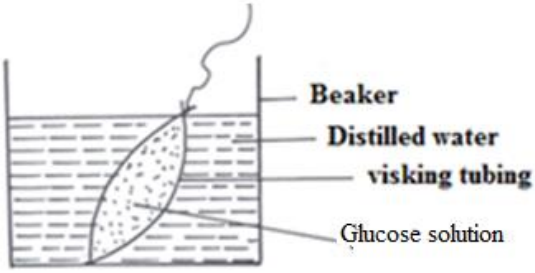
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(ii) Name one end product of dark reaction in photosynthesis. **(1Mk)**

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23. An experiment was set up as shown below to investigate a certain process.



(i) Record the expected changes in the volume of the liquid in the beaker and the appearance of the visking tubing after 20 minutes in the table below**.** **(2Mks)**

Expected changes	
Volume of the liquid in the beaker	Appearance of the visking tubing

(ii) Explain your observations in 23(i) above. **(2Mks)**

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(iii) Name the structure represented by the visking tube in a living cell. **(1Mk)**

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24. State the functions of the following parts of a light microscope.

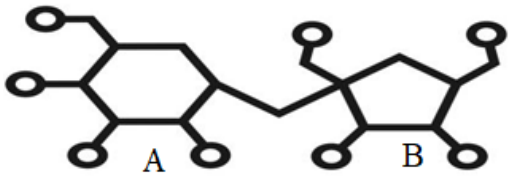
(i) Condenser **(1Mk)**

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(ii) Diaphragm. **(1Mk)**

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25. The diagram below shows a simple structure of a disaccharide, study it and Answer the questions that follow.



(i) State the chemical reaction that forms the disaccharide. **(1Mk)**

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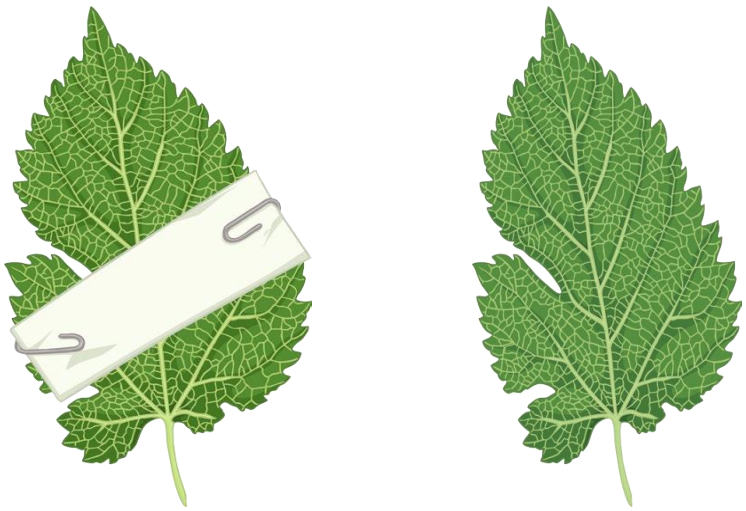
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(ii) If the disaccharide is sucrose name the monosaccharides A and B. **(2Mks)**

A……

B……

26. A student placed a plant into a dark cupboard and then partially covered one leaf (leaf A) with a piece of card. After two days, she carried out a test for starch on leaf A and one other leaf, as shown below.



Leaf A **Leaf B**

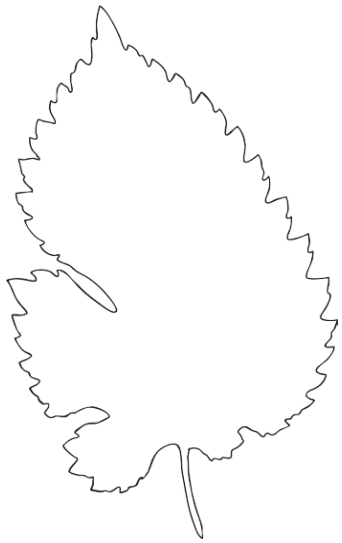
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When iodine was added to leaf B it turned completely blue black. Which parts of leaf A would turn black. **(1Mk)**

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(i) Shade these areas on the leaf below**.** **(1Mk)**



(ii) Explain your answer in 26 (i) above. **(2Mks)**

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PROGRESSIVE STUDENTS FORM ONE
MID TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

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

565/1
BUSINESS STUDIES
Paper 1
Time: 2 hours

INSTRUCTIONS

Answer ALL the questions in the spaces provided.

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

16	17	18	19	20	21	22	23	24	25

TOTAL

1. Highlight four factors that may positively influence the operations of a business. **(4mks)**

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2. In the spaces provided below, indicate the type of utility created by each of the following activities. **(4mks)**

Activity		Type of utility
a) Store keeping	-	_____
b) Selling goods to a customer	-	_____
c) Making a chair	-	_____
d) Transporting goods	-	_____

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3. Outline four differences between a good and service. **(4mks)**

Good	Service

4. Outline four components of business studies. **(4mks)**

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5. Highlight four benefits of using electronic filing system. **(4mks)**

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6. State four ways in which learning business studies will benefit a form four school leaver. **(4mks)**

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7. State four qualities that an entrepreneur should possess in order to succeed. **(4mks)**

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8. Name the characteristic of human wants described in the following statements. **(4mks)**

a) Require to be satisfied over and over again _____

b) Satisfying one want leads to the need to satisfy another _____

c) All human being experiences urge to satisfy wants _____

d) Some wants result in formation of habits _____

9. Identify four roles of a personal secretary. **(4mks)**

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10. Highlight four roles played by a good filing system in an organization **(4mks)**

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11. Identify the office in which the following machines are generally used. **(4mks)**

Machine	**Office**
(a) Dictating machine	
(b) Franking machine	
(c) Cell phone	
(d) Photocopier	

12. Mention four benefits of trade in our country. **(4mks)**

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13. Highlight four disadvantages of an enclosed office layout. **(4mks)**

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14. Identify four reprographic techniques that can be used in an office. **(4mks)**

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15. Identify four ways through which consumers may be exploited by traders. **(4mks)**

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16. Highlight four factors that have positively influenced entrepreneurial practices in Kenya. **(4mks)**

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17. Identify four gaps in a society that may result in a business opportunity. **(4mks)**

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18. Highlight the meaning of the following terms as used in Business Studies. **(4mks)**

a) Office

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b) Entrepreneur

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c) Business resources

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d) Utility

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19. The table below relates to factors of product and their rewards inappropriately matched. Provide correct matching. **(4mks)**

Factor of production	Rewards	Correct Rewards
Land	Interest	
Capital	Rent/royalty	
Labour	Profit	
Entrepreneurship	Wages/salaries	

20. Highlight four importance of a business plan to an entrepreneur. **(4mks)**

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21. Outline four benefits of division of labour to an organization. **(4mks)**

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22. State four circumstances under which an organization may computerized all their operations **(4mks)**

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23. For each of the following production activities, indicate whether it is direct or indirect type of production. **(4mks)**

Activity	Type of production
i) An individual washing his/her own clothes	
ii) An individual supplying beef in an area	
iii) An individual operating a food kiosk	
iv) An individual producing maize for his family consumption	

24. Identify the type of utility created in the following circumstances **(4mks)**

Activity	Utility
a) Carpentry	
b) Selling bread to students	
c) Warehousing of goods imported	
d) Carriage of cargo to the market	

25. Outline **four** ways in which the productivity of land can be improved **(4mks)**

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PROGRESSIVE STUDENTS FORM ONE
MID TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

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

CHEMISTRY
TIME: 2 HOURS

INSTRUCTIONS:

- Write your **name** and **other details** on the space provided above
- Answer **all** the questions in the spaces provided for each question.
- All working **must** be clearly shown where necessary.
- Mathematical tables and silent non-programmable electronic calculators may be used.

For Examiners Use Only

Questions	Total marks	Student's score
1 - 18	80	

1. Define the following terms.

a) Drug **(1mk)**

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b) Prescription **(1mk)**

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c) Drug abuse **(1mk)**

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2. John visited a hospital and was given syrup whose prescription was **2×3.** How should she take the syrup? **(2mks)**

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3. (a) Why are most of the apparatus in chemistry laboratories made of glass? **(2mks)**

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(b) Name two apparatus used for accurate measurement of volume. **(2mks)**

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4.Define the following terms **(4mks)**

a) An atom

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b) A molecule

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c) A compound

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d) Element

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5.Complete the following table **(4mks)**

Element	Symbol
Silver	
	Au
Iron	
	Pb

6.Name the elements present in magnesium carbonate **(3mks)**

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7.Write a word equation for the reaction between:

a) Carbon and oxygen **(1mk)**

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b) Iron and Sulphur **(1mk)**

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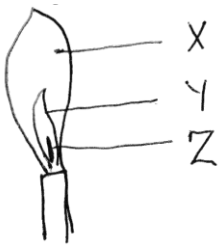
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(c) Zinc and bromine **(1mk)**

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8.The diagram below shows part of non - luminous flame of the Bunsen burner. Study it to answer questions that follow.



a) Name the parts of the flame labeled as; **(3mks)**

X: ……

Y: ……

Z: ……

b) Which part of the flame above is the hottest? Explain. **(2mks)**

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c) A non–luminous flame is preferred for heating. Explain. **(1mk)**

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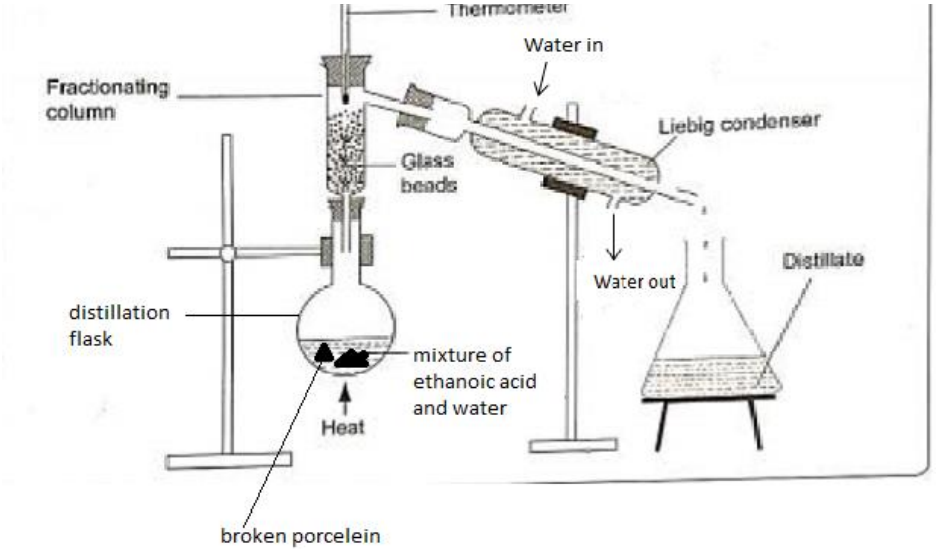
d) Name the other type of flame and the condition under which that flame is produced. **(1mk)**

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9.The diagram below shows a set up that was used by a student to separate a mixture of water and ethanoic acid. Study it and answer the questions that follow. (Boiling point of water = 100^{O}C, ethanoic acid = 118^{O}C)



a. State one mistake in the set up. **(1mk)**

……

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b. Which component of the mixture will be collected first and why? **(2mks)**

……

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……

c. What are the roles of the following; **(4mks)**

i. Thermometer

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ii. Liebig condenser

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iii. Fractionating column

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iv. Glass beads

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d. Why is it preferable for the distillation flask to be round- bottomed rather than flat bottomed rather than flat bottomed? **(1mk)**

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e. Name the method of separation of the mixture. **(1mk)**

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f. Name two mixtures that can be separated using the above method of separation **(1mk)**

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g. At what point does one know that the entire first fraction has been removed from the distillation flask. Explain. **(2mks)**

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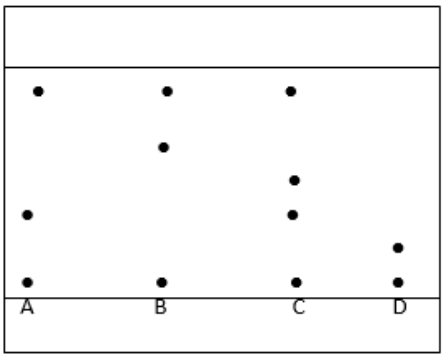
10. State two laboratory rules to observe when preparing a **poisonous** gas. **(2mks)**

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11. The spots in the diagram below represent results for three brands of soda that contains unwanted food additives.



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The results showed presence of unwanted food additives in B and C only. On the diagram:

i) Label the baseline or origin and the solvent front. **(2mks)**

ii) Circle the spots which showed unwanted food additives. **(2mks)**

iii) Which food additive was pure? Explain. **(2mks)**

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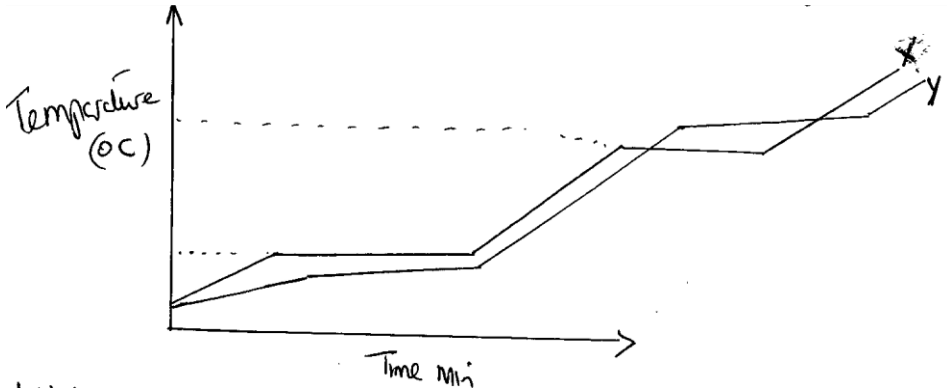
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iv) Name the method of separation above **(1mk)**

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12. The graph below shows the heating curves obtained when solid X and solid Y were heated to boiling point.



i) Which of the two liquids was pure? Explain. **(2mks)**

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ii) What would be the effect of adding an impurity to the boiling point of a substance? **(1mk)**

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13. Complete the table below. **(3mks)**

Indicator name	Colour in		
	Acid	Base	Neutral
Litmus	Red		
Phenolphthalein			colourless
Methyl orange	Pink		

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14. a) Five solutions were tested with universal indicator and their PH values recorded.

Solution	pH value
A	11
B	2
C	6
D	7
E	9

i) Which solution is a strong acid? **(1mk)**

……

ii) Which solution is a weak acid? **(1mk)**

……

iii) Which solution is neutral? **(1mk)**

……

iv) Which solution is a strong base? **(1mk)**

……

v) Which solution is a weak base? **(1mk)**

……

b) Name the acids found in each of the following substances **(5mks)**

i) Lemon juice ……

ii) Sour milk ……..

iii) Oxalis ……..

iv) Bee sting ……

v) Vinegar ……

15. When a student was stung by a stinging nettle plant, a teacher applied an aqueous solution of ammonia to the affected area of the skin and the student was relieved of pain. Explain why the student was relieved off the pain and state the importance of the aqueous solution of Ammonia in the affected area of the skin. **(2mks)**

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16. Classify the following as either physical or chemical changes. **(4mks)**

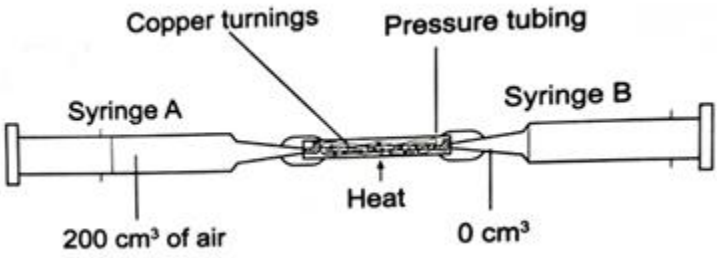
a) Freezing of water. **……**

(b) Rusting of iron **……..**

(c) Burning a candle. **……**

(d) Heating copper (II) nitrate **……**

17. The apparatus below were used to determine the volume of oxygen in air. About 200cm^3 of air was passed repeatedly from syringe **A** to syringe **B** over heated copper turnings as shown in the diagram. After sometime, the volume of air in the syringe **A** was 168cm^3 and syringe **B** 0cm^3.



a.Write a chemical equation for the reaction that took place in the combustion tube. **(1mk)**

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b. Calculate the percentage of oxygen in the initial sample of air. **(2mks)**

c.State two possible sources of errors in the experiment. **(2mks)**

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18. State the best method to separate the following mixtures **(3mks)**

(a) Components of crude oil **……..**

(b) benzoic acid and sodium chloride **……**

(c) Iron filings and Sulphur **……..**

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PROGRESSIVE STUDENTS FORM ONE
MID TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

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

FORM ONE EXAMINATION
CODE: 451/1 SUBJECT: COMPUTER STUDIES
TIME 2-Hours

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

FOR EXAMINER'S USE ONLY

QUSTIONS	CANDIDATE'S SCORE
1 - 20	
TOTAL SCORE	

Answer all the questions

1.

(i) Briefly describe why RAM is referred to as

(a) Working Memory **(2mks)**

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(b) Random Access Memory **(2mks)**

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(ii) State four differences between primary and secondary storage. **(4mks)**

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2. Describe three ways of acquiring software in an organization **(3mks)**

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3.

(i) Describe three special purpose memories **(3mks)**

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(ii) Describe three electronic pathways used by computer components like ALU, Control unit and maim memory to communicate **(3mks)**

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4. State four advantages of Inkjet printers **(4mks)**

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5.

(i) What is solid state storage device **(2mks)**

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(ii) State five advantages of solid state storage devices **(5mks)**

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(iii) Give three possible reasons for extinction of Floppy disks in the market today **(3mks)**

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6. State four factors to consider when choosing a monitor **(4mks)**

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7. Mention three hardware technology difference between first generation and fourth generation computers **(3mks)**

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8. It was noted that after every lesson in the computer lab students complain of itchy eyes, mild headache and backache. State four causes of the outlined problems **(4mks)**

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9. Describe how computers are classified based on functionality **(3mks)**

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10. ICT play an integral part in managing modern businesses. State five uses of computer in Businesses **(5mks)**

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11. Explain why the following precautions must be observed in the computer lab

(i) Cable insulation **(2mks)**

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(ii) Provision of standard furniture **(2mks)**

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(iii) Monitors facing away from the windows **(2mks)**

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12.

(i) Name four examples of optical storage disks **(4mks)**

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(ii) State four features of Dot Matrix printer **(4mks)**

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13.

(i) Name three interfacing cables used to connect a projector to a computer **(3mks)**

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(ii) Outline three characteristics of Small computer interface system cable **(3mks)**

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(iii) State the difference between COM and LPT **(2mks)**

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14.

(i) What is a toggle key **(2mks)**

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(ii) State two functions of return key **(2mks)**

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15. Kiman wa Matatek bought a flash of 2GB , he used half of the flash storage space to keep personal documents, a quarter for video and quarter of the remainder for music files

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(i) Calculate the remaining space in Megabytes **(3mks)**

(ii) Workout the total number of bytes saved in the flash disk **(3mks)**

16. Mention four advantages of using computers in Banks **(4mks)**

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17. Use the line of text below to answer the questions that follow

Maranda High School is a national school in Bondo sub-county Siaya County.

(i) How many characters are represented in the line of text above **(2mks)**

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(ii) Workout the number of bits **(2mks)**

18. Mention five hardware or software components that a computer must have to support multimedia operations **(5mks)**

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19. State four functions of a computer **(4mks)**

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20. Mention four input devices found at an Electronic Point of Sale Terminal in supermarket **(4mks)**

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PROGRESSIVE STUDENTS FORM ONE
MID TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

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

CHRISTIAN RELIGIOUS EDUCATION
FORM 1
Time: 2 Hours
Answer all Question

1. (a) Identify seven literary forms used in the writing of the Bible. **(7mks)**

(b) Outline the differences between the two accounts of creation in Genesis 1and 2. **(6mks)**

(c) Give ways in which human beings have interfered with God's creation work. **(7mks)**

2a. Identify seven human authors of the Bible. **(7mks)**

b. Explain six relationships between God and human beings according to Genesis 1 and 2**.** **(6mks)**

c. Give seven reasons why reading of the bible is important to Christians. **(7mks)**

3. (a) Describe the call of Abraham (Genesis 12:1-9). **(8mks)**

(b) State six ways through which Abraham demonstrated his faith in God. **(6mks)**

(c) Give six examples of covenants made in Kenya today. **(6mks)**

4.(a) Describe the call of Moses (Exodus 3:1-22). **(8mks)**

(b) Outline seven plagues that God used to demonstrate his power in Egypt. **(7mks)**

(c) Give reasons why Christians in Kenya are commanded not to steal. **(5mks)**

5.(a) Explain how King Solomon fulfilled the prophecy of Samuel about kingship in Israel**.** **(6mks)**

(b) Outline the promises that God made to King David through prophet Nathan. **(8mks)**

(c) What is the relevance of the promises made to King David for Christians today. **(6mks)**

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PROGRESSIVE STUDENTS FORM ONE
MID TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

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

ENGLISH

FORM ONE (1)

TIME: 2 HOURS 30 MINUTES

Instructions To Candidates:

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

b) Indicate your class and write the date of exam in the spaces provided.

c) Answer all the questions in this paper.

d) All your answers must be written in the spaces provided.

For Examiner's Use Only:

S/No.	Question	Maximum Score	Candidate's Score
1	Writing	20	
2	Passage	20	
3	Oral Skills	20	
4	Grammar	20	
	TOTAL	**80**	

1. Write a composition beginning: I regretted ever having had Riziki for a friend…' **(20Mks)**

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2. Read the passage bellow and answer the questions that follows. (20 Marks)

Typhoid is an infectious bacteria disease transmitted through **contaminated** food and water. Typhoid infection first establishes itself in the digestive system from where it spreads further to the rest of the body.

After infecting the intestines, typhoid bacteria destroy the intestinal lining leading to ulceration and bleeding. It is through the bleeding body vessels that a blood infection is established and then further spread through the body.

Typhoid is a serious infection and should be attended to promptly whenever it develops. It is a systematic infection: thus, it can affect any part of the body. However, as mentioned earlier, at **onset** of infection, the organ affected is the intestine. This leads to intestinal symptoms being the first to appear. The symptoms may include passing loose stool, abdominal discomfort and loss of appetite, nausea and passage of bloody stool. As the disease progresses, blood stream involvement leads to the onset of general **malaise**, fever, joint pains, muscular pains, headache and mental clouding. In severe infections, coma and death may result.

When a patient with typhoid reports to a doctor, the doctor suspecting the disease can carry out some tests to confirm whether the patient has the infection or not. Among the tests recommended, blood tests are the most important. However, urine and stool tests can be very useful for the doctor to distinguish it from other diseases which presents themselves in a similar manner such as parasitic amoeba or the bleeding vascular disorder of the digestive system.

Once in the blood, typhoid bacteria are filtered and excreted in the urine by the kidneys. Therefore, urine tests can reveal a typhoid infection. Thus, a qualified doctor or medical personnel should only determine a diagnosis of typhoid by relevant evidence of the presence of symptoms and signs. The doctor can also use either direct or indirect evidence of the presence of the responsible bacteria to diagnose the disease.

If you develop any of the **symptoms** such as nausea, abdominal discomfort, general malaise, joint pains, fever, dysentery, mental clouding and abdominal swelling, you should seek medical advice immediately. The doctor will then decide the kind of treatment you require. The treatment given depends on the severity of the disease, and can involve administration of intravenous medicines or oral medication according to the doctor's assessment. The doctor could also have your body fluid and blood replaced die to diarrhea and dysentery.

Transmission of typhoid can be controlled in various ways. Proper cooking of food and boiling of drinking water can reduce transmission of typhoid. Washing hands before eating and after visiting the toilet is also important. Proper disposal of body waste is another good preventive measure.

Early diagnosis and treatment of those who get infected also reduces transmission to others. In addition, anti-typhoid vaccine provides protection against typhoid for at least three years after which one is due for another vaccination.

Questions

a.How is typhoid transmitted? **(2Mks)**

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b. How does the typhoid bacteria affect the intestines? **(2Mks)**

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c.Why is typhoid said to be a systemic infection? **(2Mks)**

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d. What are the symptoms of typhoid infection? **(4Mks)**

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e.Why should a person undergo a typhoid test before treatment**?** **(2Mks)**

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f. According to the passage, what should one do so as not to contract typhoid fever? **(4Mks)**

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g. Give the meaning of the following words and phrases as they have been used in the passage. **(4Mks)**

i.Contaminated

……

……

ii. Onset

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……

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iii. Malaise

……

……

iv. Symptoms

……

……

ORAL SKILLS (20Mks)

a) Read this sub-genre and answer the questions that follows.

A tutor who tooted the flute

Fried to tutor two tooters to toot

Said the two to the tutor

i.Identify the above genre. **(1Mk)**

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……

ii. Give three characteristics of the above genre**.** **(3Mks)**

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iii. Give three importance of using the above genre**.** **(3Mks)**

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b. Classify the words below according to the sound of the underlined 'ch' letters. **(5Mks)**

Ben**ch**	**Ch**ore	**Ch**andelier
Charisma	Para**ch**ute	Tra**ch**oma
Chauvinism	**Ch**ora	Chur**ch**
Champagne	**Ch**arm	**Ch**rysalis
/ts/	**/s/**	**/k/**

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c. For each one of the words below, provide another word which is pronounced in the same way but spelt differently. **(3Mks)**

i.Rain …….

ii. Nun ……..

iii. Waist ……

d. Underline the silent letter(s) in the following words. **(5Mks)**

i.Bridge …….

ii. Wednesday …….

iii. Wrist ……

iv. History ……

v.Palm ……

GRAMMAR (20 Marks)

a) Fill in the blanks with the correct alternative from the choices given. **(3Mks)**

i.Who ……..…….. a fire outside my house? (light, lighted, lit)

ii. Since the introduction of community policing in our estates ……..

of theft have reduced. (incidence, incident, incidents)

iii. An elephant looks after …….. calf. (it's, its)

b) Identify, underline and correct the four words that have been mis-spelt in the paragraph below.

(4Mks)

We didn't give him the previlege of representing us on the District Environment committee because he has a tendancy of disagreeing with everyone. He embarasses himself by pretending to be so knowledgable.

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c) Fill in the blank spaces with the correct form of the verb in the brackets**.** **(3Mks)**

i. A flock of birds **……** (fly) away from this lake every week.

ii. I wonder why they had **…….** (sing) that particular song.

iii. The ball must have been **…….** (hit) too hard

d) Fill in the gaps in the sentences below with appropriate past simple form of the verbs given in brackets. **(3Mks)**

i. My friends **…….** the visiting doctor yesterday. (see)

ii. We **…….** our breakfast ten minutes ago. (finish)

iii. Jane **…….** her money at the show ground. (lose)

e) Fill in each of the following sentences with the continuous form of the verbs given in brackets. (3Marks)

a.The magician **……** (untie) the knot.

b. I **…….** (see) my friend off

c.The principal **……**(receive) the guests right now.

d. Everybody **……..**(view) the programme yesterday.

e.It **…….** (occur) at the same time.

f) Fill in each of the following sentence with the correct form of the adjectives given in brackets. (4 Marks)

a. My locker is **……**than yours. (tidy)

b. The hyena is the **…….** animal in the jungle. (foolish)

c. My father is **……**than your father. (old)

d. Olunga is the **…….** of the Kenyan players. (intelligent)

THE END

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PROGRESSIVE STUDENTS FORM ONE
MID TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

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

GEOGRAPHY

FORM 1

Time: 2 ½ Hours

INSTRUCTIONS TO CANDIDATES

i) This paper consists of two sections A and B
ii) Answer **all** questions in section A and B

For Examiner's use only

SECTION	QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
A	1-5	25	
	6	25	
		25	
		25	
TOTAL SCORE		100	

SECTION A

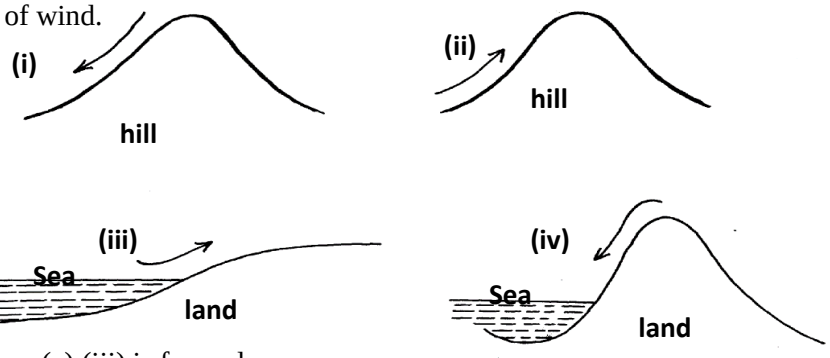
Answer all the questions in this section.

1 (a) (i) Name **two** parts of the earth's crust. **(2mks)**

(ii) State **two** forces responsible for the spherical shape of the earth. **(2mks)**

(b) Give **two** reasons as to why the interior of the earth is hot. **(2mks)**

2 (a) Identify the following types of wind. **(4mks)**



(b) Describe how the wind system (a) (iii) is formed. **(2mks)**

3. a) (i) What is a lunar day? **(1mk)**

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(ii) Explain how a lunar eclipse occurs. **(2mks)**

b) The local time at town A, 45°E is 1.30pm. Find the longitude of town **B** if the local time is 10.00a.m.

4. (a) Name **two** theories associated with the origin of the solar system. **(2mks)**

(b) (i) What is summer solstice. **(1mk)**

(ii) Give the dates when the sun is overhead at midday on the tropics of Capricorn and cancer respectively. **(2mks)**

5.a) What is the solar system? **(2mks)**

b) Identify **three** planets that have satellites. **(3mks)**

SECTION B: Answer ALL the questions

6.(a)(i) Define the term mineral. **(2mks)**

(ii) Give two categories of metallic minerals. **(2mks)**

(b) (i) Name the rocks that result from the following metamorphism processes;

(ii) State three factors that influence rock metamorphism. **(3mks)**

(c) Describe the formation of the following rocks;

(i) Intrusive igneous rocks **(5mks)**

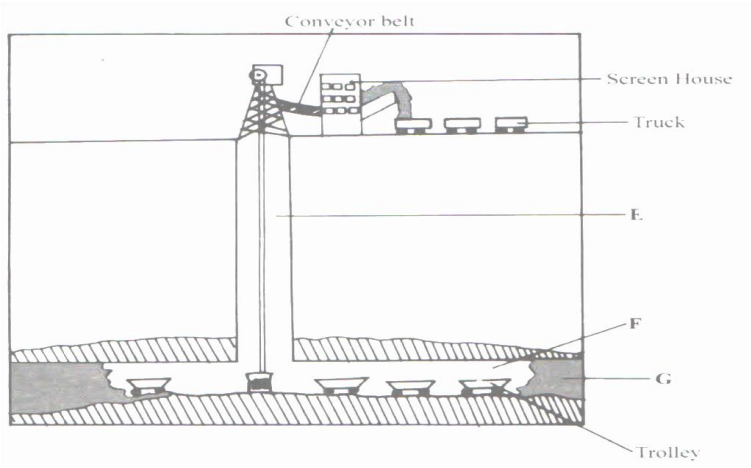
(ii) Organically formed sedimentary rocks. **(4mks)**

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

7. (a)(i) Name **three** places in Kenya where limestone is mined**.** **(3mks)**

(ii) State **two** uses of trona. **(2mks)**

(b) (i) The diagram below shows shaft mining. Name the parts marked E, F and G. **(3mks)**



(ii) State **two** problems associated with shaft mining. **(2mks)**

(c) Explain **four** ways in which gold mining has contributed to the economy of South Africa. **(8mks)**

(d) Explain **three** negative effects of mining on the environment. **(6mks)**

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8.(a)(i) What is geography? **(2mks)**

(ii) Give two branches of geography. **(2mks)**

(b) State six reasons why geography is studied in schools. **(6mks)**

(c) Explain the relationship between geography and the following disciplines:

(i) Agriculture **(2mks)**

(ii) Chemistry **(2mks)**

(iii) Mathematics **(2mks)**

(d) Students of your class intend to carry out field work on rocks around your school.

(i) Formulate three objectives for your study. **(3mks)**

(ii) Give three activities you would be engaged in during the study. **(3mks)**

(iii) Identify three follow up activities you be engaged in. **(3mks)**

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PROGRESSIVE STUDENTS FORM ONE
MID TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

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

HISTORY AND GOVERNMENT (311)

FORM ONE (1)

Time: 2½ Hours

INSTRUCTIONS TO THE CANDIDATES:

This paper consists of **three** sections **A, B** and **C.**
Answer **ALL** questions in section **A,** section **B** , and section **C**

FOR EXAMINERS USE ONLY

SECTION A (25 MARKS)

SECTION	QUESTIONS	MARKS
A	1-17	
	18	
	19	
	20	
	21	
	22	
	TOTAL	

ANSWER ALL THE QUESTIONS IN THIS SECTION

1. Give two areas of study in the Social branch of History **(2mks)**

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2.Identify the Law-making organ of Government of Kenya **(1mk)**

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3.What is the relationship between History and Government **(1mk)**

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4.Give two religious books that supports Creation theory of the early man **(2mks)**

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5.Give two changes of the early man that marked the breaking off point between man and apes **(2mks)**

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6.Name the area where remains of Aegyptopithecus were discovered. **(1mk)**

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7.Identify one of the hominid species that manufactured Acheulian tools **(1mk)**

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8.Name two types of Oldowan tools **(2mks)**

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9.Identify two archaeologists mostly associated with the studies of early man in East Africa **(2mks)**

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10. Give two other names of Australopithecus **(2mks)**

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11. Identify the technology that was used in improving Sangoan tools / Lupemban tools **(1mk)**

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12. State two disadvantages of hunting in groups by the early man. **(2mks)**

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13. Name the two rivers that were associated with early agriculture in Mesopotamia **(2mks)**

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14. State one way in which man would use the first animal he domesticated **(1mk)**

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15. Give one irrigation method that was used in Mesopotamia **(1mk)**

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16. State one negative effect of Land enclosure system in Britain **(1mk)**

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17. Identify the invention that was associated with Andrew Meikle during the Agrarian Revolution in Britain **(1mk)**

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SECTION B (45 MARKS)

ANSWER ALL THE QUESTIONS IN THIS SECTION

18. a) Give five forms of Oral traditions (**5mks)**

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b) Explain five challenges that Archaeologists face in their work of re-Writing of History **(10mks)**

19. a) Give five aspects of life that had their origin in the Late/New Stone Age **(5mks)**

b) Explain five hunting methods that were used by early man during the stone age period **(10mks)**

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20. a) State five similarities between early agriculture in Egypt and Mesopotamia. **(5Mks)**

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b) Explain five effects of Agrarian Revolution in Britain **(10mks)**

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SECTION C (30 MARKS)
ANSWER ALL THE QUESTIONS IN THIS SECTION

21. a)Identify five communities that make up Eastern Cushites **(5mks)**

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b) Explain five results of the migration of the Bantus to their present homelands **(10mks)**

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22. a) State five economic activities of the Akamba during the Pre-colonial period **(5Mks)**

b) Describe the political organization of the Akamba during the pre-colonial period **(10mks)**

End

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PROGRESSIVE STUDENTS FORM ONE
MID TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

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

441/1

HOME SCIENCE

(Theory)

FORM ONE TERM 2

Time: 2 hours

Instructions to students

- Write your name, class, and admission number in the spaces provided.
- Sign and write the date of the exam in the spaces provided.
- The paper consists of three sections: **A, B** and **C.** Answer all the questions in section A and B and any two questions in section C. Answers to all questions must be in the spaces provided.
- The paper has 15 printed pages. Check to see that all the pages are printed and no questions are missing.

For examiner's use only

Section	Question	Maximum Score	Student's Score
A	1-18	40	
B	19	20	
		20	
		20	
Total Score		100	

SECTION A (40 marks)

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

1.List down **four** accessories used by men. (2 marks)

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2.Identify **four** possible danger areas in the home where a child can drown. **(2mks)**

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3.Identify **two** ways a First Aider can use to diagnose the illness of a casualty**.** **(2mks)**

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4.Give **two** reasons for brushing teeth after every meal**.** **(2mks)**

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5.State **two** ways cotton wool is used when offering First Aid to a casualty**.** **(2mks)**

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6.State **three** instances when vomiting should not be induced when a casualty is suffering from poisoning. **(3mks)**

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7.Give **two** advantages of living in a staff house/employers house. **(2mks)**

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8.Define the following terminologies.

a) Hatch **(2mks)**

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b) Home **(2mks)**

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9.Suggest **two** ways an adolescent girl can misuse cosmetics**.** **(2mks)**

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10. Highlight **three** advantages of renting a house**.** **(3mks)**

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11. Give **two** functions of the epidermis. **(2mks)**

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12. Mention **two** reasons for applying shoe polish on leather shoes. **(2mks)**

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13. List down **four** nutrients which are necessary for healthy teeth**.** **(2mks)**

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14. Give **two** reasons for massaging the scalp when washing the hair**.** **(2mks)**

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15. State **two** uses of talcum powder when applied on the feet**.** **(2mks)**

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16. Give **two** reasons for sprinkling ash around the pit latrine hole**.** **(2mks)**

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17. Suggest the care given to a dustpan in order for it to last long. **(2mks)**

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18. Give the effects of horizontal lines on a tall and slim figure**.** **(2mks)**

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SECTION B (20 marks)

Compulsory

Answer this question in the spaces provided.

19. Your cousin is visiting over the weekend and your mother has requested you to carry out some household tasks.

a) Outline how you would launder your acrylic school sweater. **(10mks)**

b) Describe how you would clean the kitchen cemented floor. **(10mks)**

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SECTION C (40 marks)

*Answer any **two** questions in the spaces provided.*

20. a) Describe **four** activities carried out during the special cleaning of a food storage area. **(8mks)**

b) Explain **three** disadvantages of burning as a method of disposing refuse in the home. **(6mks)**

c) Explain **three** factors to consider when buying a maisonette**.** **(6mks)**

21. a) Explain **three** ways of caring for plastic basins and buckets after using them. **(6mks)**

b) Give **four** advantages of kitchen Formica surfaces**.** **(4mks)**

c) Outline **four** precautions taken when washing glass bowls. **(4mks)**

d) Explain **three** points to consider when choosing a refuse container to use in the home. **(6mks)**

22. a) Explain **three** qualities of a mop used for cleaning the toilet. **(6mks)**

b) Highlight **four** advantages of regular cleaning of household items**.** **(4mks)**

c) Explain **three** problems one would encounter when living in a rented flat in the urban town centres.**(6mks)**

d) Give **four** reasons why the school kitchen should be kept clean. **(4mks)**

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PROGRESSIVE STUDENTS FORM ONE
MID TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

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

ISLAMIC RELIGIOUS EDUCATION/314

FORM ONE

TIME: 2HRS

1 a) State the etiquettes to be observed when reciting the holy Quran. **(8mks)**
b) Explain eight reasons why mankind needed revelation of the Quran. **(8mks)**
c) Mention the supplication (dua) found in Surah Al-Fatiha. **(4mks)**

2 a) State the conditions of success according to Surah Al-Asr. **(4mks)**
b) Give four differences between Hadith and Sunnah. **(8mks)**
c) Explain four ways through which hadith evolved.

3 a) Explain the categories of Tawheed. **(6mks)**
b) Give reasons why shirk is condemned in Islam? **(6mks)**
c) State the characteristics of Angels of Allah which make them different from humans. **(8mks)**

4 a) Explain the three types of Najasaat (impurities). **(6mks)**
b) Differentiate between swalatul-eid and normal swalah. **(7mks)**
c) Explain seven importance of zakat. **(7mks)**

5 a) List five examples of Munkaraat. **(5mks)**
b) Explain the significance of forbidding evil in the society. **(5mks)**
c) Discuss five importance of the family in Islam **(10mks)**

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PROGRESSIVE STUDENTS FORM ONE
MID TERM 3 SERIES ONE EXAMS

JINA: ……...……

SHULE: ……...……

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

KISWAHILI 102/1

KIDATO CHA KWANZA

MUDA: SAA 2 ½

Maagizo

1. Jibu Maswali yote

2. Majibu yote yaandikwe katika nafasi ulizoachiwa katika karatasi hii ya Maswali

3. Majibu yote lazima yaandikwe kwa lugha ya Kiswahili

4. Wahataniwa lazima wahakikishe kuwa kurasa zote za karatasi hii zimepigwa chapa sawasawa na kuwa Maswali yote yamo

Matumizi ya mtahini pekee

SEHEMU	UPEO	ALAMA
A	15	
B	40	
C	10	
D	15	
JUMLA	80	

A. UFAHAMU

Soma nakala ifuatayo kisha ujibu Maswali.

Tulipoguria nyumba mpya, tulimkuta paka. Rehema hakuingiwa na kicho maana namjua itikadi zake. Mara angesema kuwa huyo si paka ni pepo na kuwa nyumba ile haikaliki. Paka yule mara akataka kuitamalaki nyumba, kuingia mapana na marefu. Mimi tabia yangu simpendi paka. Kwa hakika sipendi kufugafuga vinyama, hunitia dhiki sana nami huona navikutisha mashaka tu. Zaidi ya yote, paka hunichemuza.

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Lakini tulipoingia tu akafanya mazoea na Rehema akawa kila aingiapo amwandama unyounyo naye akawa ni mzungumzi wake mkubwa. Utamsikia Rehema asema naye kama asemaye na mtu." Paka wewe u roho mno, uonacho wataka? Siku moja utakuja niangusha huishi kuniingia maguuni?"

Mimi huku nakereka. Kila nikimwambia Rehema amtupe huniambia; "leo nitamshika". Nikirudi yu papo. Hata nilipomsikia akinung'unika kuwa, "Mtu humchukuaje kiumbe akaenda akamtupa bure?", nikajua hana azma ya kumtoa mle nyumbani.

Hayo yasitoshe, kila usiku takriban alikuwa akija na genge wakatuhanikiza kwa vishindo vyao huko darini wakikimbizana na kupapurana tukawa nyumba nzima hatupati usono. ' mapenzi ya kipaka yana vituko!' Hata Rehema akawa anamwambia: "paka wewe nawe watia aibu. Huna haya hata kidogo. Uingie kwa watu, uwalie vyao, uwatilie na wanaume pia! Basi hata humstahi mwenye nyumba! Ndipo mwenyewe akawa hana jicho la kukushuhudia."

Ilikuwa sharuti nitafute mwenyewe tadubiri ya kumtolea mbali nduli yule. Kweli alikuwa nduli kwangu; mafua yakawa hayaniishi na pia zikawa zaingia ishara za pumu. Nikafikiri nimwambie kuwa nimekwenda kutazamia nikaambiwa kuwa yule ni shetani amekuja kutudhuru kwa kujitia urafiki.

Nikaona hivi sivyo. Kuchezacheza na itikadi na hofu za mtu kwaweza kuleta hasara usiyoikadiria. Nikawaza. Ikanijia fikira kuwa paka huyu lazima ni wa watu waliokuwa wakikaa humu kabla hatujahamia sisi. Akafanya mazoea sana humu ama akaachwa papa hapa au akachukuliwa akakimbia. Nikawaambia wenyewe. Ikasadifu kuwa nilivyofikiri ndivyo ilivyokuwa. Wenyewe walikuwa washakata tamaa kuwa hawatampata tena paka wao.

a) Ipe taarifa hii anwani mwafaka **(alm1)**

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b) Kwa nini msimulizi hakumpenda paka? **(alm2)**

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c) Eleza njia ambazo msimulizi alifikiri kuzitumia ili kumwondoa paka kutoka mle nyumbani. **(alm3)**

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d) Fafanua hatima ya kila mojawapo ya njia ulizotaja katika swali la (b) hapo juu. **(alm3)**

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e) Paka alikuwa na tabia zipi zilizomkera msimulizi? **(alm2)**

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e) Ni nini kinachoonyesha kuwa rehema alimpenda paka huyo? **(alm2)**

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f) Eleza maana ya mafungu haya kama yalivyotumiwa taarifani. **(alm2)**

(i) Hakuingiwa na kicho.

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(ii) Tadibiri ya kumtolea mbali.

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B. <u>MATUMIZI YA LUGHA (ALAMA 40)</u>

a) Taja makundi mawili ya sauti za Kiswahili. **(alm1)**

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b) i) Eleza maana ya sauti mwambatano. **(alm1)**

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ii) Dondoa sauti Mwambatano zilizo kwenye maneno haya**;** **(alm2)**

Nguo

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Avya

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c) Taja vigezo vitatu vya kuainisha Irabu. **(alm3)**

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d) Tambua na ueleze aina ya sauti ifuatayo kwa kuzingatia hali ya mtetemeko wa nyuzi za sauti. **(alm1)**

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e) Eleza matumizi matatu ya kiimbo katika sentensi**.** **(alm3)**

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f) **i)** Eleza maana ya shadda**.** **(alm1)**

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ii). Tia shadda katika maneno yafuatayo;

a) Walakini (dosari/kasoro) (alama 2)

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b) Ala (Mshangao)

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g) Eleza aina mbili za silabi katika lugha ya Kiswahili **(alm2)**

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h) Tambua miundo ya silabi katika neno *maktaba.* **(alm2)**

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

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ii) Bainisha viambishi na mzizi katika neno **Nilimchorea**. **(alm3)**

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j) Andika sentensi ifuatayo kwa wakati ujao hali timilifu **(alm2)**
Wanafunzi watamaliza mtihani mapema.

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k) Tambua ngeli za nomino zifuatazo**.** **(alm2)**

i) Ujinga

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ii) Kiboko

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l) Sahihisha sentensi ifuatayo kwa njia mbili tofauti **(alm2)**
Mwanafunzi ambaye aliyepita mtihani alituzwa vyema.

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m)Andika sentensi ifuatayo kwa wingi**.** **(alm2)**
Karatasi iliyoandikiwa imepelekwa darasani.

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n) Yakinisha sentensi ifuatayo . **(alm2)**
Hatutahitimisha masomo mwaka huu.

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o) Andika kwa ukubwa **(alm2)**
Kijiti kilipatikana juu ya kiti.

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p) Kiranja alikusanya vitabu vyote. **(alm2)**
Anza: Vitabu vyote…

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q) Bainisha aina za maneno katika sentensi ifuatayo. **(alm2)**
Mfadhili amewasaidia wote vizuri.

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r) Andika kinyume cha sentensi hii**.** **(alm2)**
Mama alianika nguo polepole.

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C. <u>ISIMU JAMII (ALAMA 10)</u>

a) Eleza dhana zifuatazo za isimujamii. **(alm4)**

i) Isimu

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ii) Jamii

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iii) Lafudhi

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iv) Lahaja

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b) Eleza nadharia tatu zinazoeleza chimbuko la lugha ya Kiswahili. **(alm6)**

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D. FASIHI SIMULIZI (ALAMA 15)

a) Fafanua maana ya Sanaa. **(Alm1)**

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b) Taja mifano mitatu ya Sanaa. **(alm3)**

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c) Linganisha Fasihi simulizi na Fasihi andishi**.** **(alm5)**

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d) Eleza aina zifuatazo za hadithi. **(alm6)**

i) Visasili

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ii) Ngano za usuli

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iii) Ngano za mtanziko

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iv) Hurafa

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v) Hekaya

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vi) Mighani

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PROGRESSIVE STUDENTS FORM ONE
MID TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

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

121
MATHEMATICS
Time: 2½ Hours

FORM 1
Mathematics
TIME: 2½ HOURS

Instructions

- *Write your name, class and admission number in spaces provided above.*
- *The paper contains **two** sections **A** and **B.***
- *Answer **ALL** questions in section **A** and **ALL** questions from section **B** in the spaces provided below each question.*
- *Marks may be given for correct working even if the answer is wrong.*
- *Non-programmable silent electronic calculator and KNEC mathematical tables may be used, except where stated or otherwise.*

For Examiner's Use Only

SECTION A

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

SECTION B

17	18	19	20	21	**TOTAL**

GRAND TOTAL

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SECTION A (50 MARKS)

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

1. State the place values of the following digits in the number 201.70089.

a) 1 **(1mk)**

b) 8 **(1mk)**

c) 7 **(1mk)**

2. Use factor-tree to decompose 12544 into prime factors. **(3mks)**

3. Evaluate $\left\{\left(1\frac{1}{4}-\frac{3}{8}\right)\div 2\frac{1}{2}+1\frac{3}{4}\div 1\frac{1}{4}\right\}$ **(3mks)**

4. Four men can dig 2 acres of land in 3 days working 4 hour a day. How many men are required to dig 5 acres of land in 4 days working 3 hours a day at the same rate. **(3mks)**

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5. A fruit dealer blends the fruit juice in a common container to the brim before choosing the quantities in which to distribute them. She can pack them in either 20 litres, 24 litres or 36 litres can before selling them. If she chooses 20 litres cans she remains with 13 liters while when she uses 24 litres 17 litres remain in a container and 29 litres remain when distributed in 36 litres cans. Determine the least capacity of her container in litres. **(4mks)**

6. In 2023, the cost of processing a bag of wheat was Ksh 250, and this was divided between electricity costs and labour in the ratio 2:3. In the year 2024, the cost of electricity doubled, while the cost of labour increased by x%. Calculate the value of x given that the cost of processing a bag of wheat in 2024 is 425. **(3mks)**

7. A family spent $\frac{2}{5}$ of their income on food, $\frac{1}{3}$ of the remainder on water bill and saved the rest. If sh. 1200 more is spent on food than water bill. Find how much they saved? **(3mks)**

8. During a certain month, the exchange rates in a bank were as follows;

	Buying (Ksh.)	Selling (Ksh.)
1 US $	91.65	91.80
1 Euro	103.75	103.93

A tourist left Kenya to the United States with Ksh. 1,000,000. On the airport he exchanged all the money to dollars and spent 190 dollars on air ticket. While in US he spent 4500 dollars for upkeep and proceeded to Europe. While in Europe he spent a total of 2000 Euros. How many

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Euros did he remain with? **(3mks)**

9. The sum of three consecutive even numbers is 102, find the numbers. **(4mks)**

10. Three bells ring at intervals of 60 minutes,50 minutes and 40 minutes. If they rang first at 9.15 a.m, find when they will ring for the second time. **(3mks)**

11. Use a number line to perform the following operations.

a) (-10) - (-3) **(1mk)**

b) (-3) - (-4) **(1mk)**

c) (+1) - (-8) **(1mk)**

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12. Without using mathematical tables or calculator evaluate. **(3mks)**

$$\frac{3.45+0.195}{45x0.0002}$$

13. Find the ratio a:c given that a:b=1:2, b:d=4:5, d:c=3:1 **(3mks)**

14. Given that $a = 2,\ b = -1\ and\ c = 3$, find the value of **(3mks)**

$$\frac{3a^2-2b^2c+4b}{2ac+2b^3-3c}$$

15. Use tables of squares and square root tables to evaluate **(4mks)**

$$\sqrt{0.60786}+3.479^2$$

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16. A two digit number is such that its value equals four times the sum of its digits. If 27 is added to the number the result is equal to the value of the number obtained when the digits are interchanged. What is the number? **(3mks)**

SECTION II (50MKS)

Answer ALL Questions in this section

17. A salesman received a basic salary of sh. 50,000 a year together with a commission of 6 % on the value of goods sold and a car allowance of sh. 2.50 per km.

a) Find the total amount he received in a year in which he sells goods worth sh. 625,000 and travels 10,000km. **(4mks)**

b) The next year he travels 12,000km and receives a total of shs. 134,000

i) Calculate the value of goods sold. **(4mks)**

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ii) Calculate the percentage increase in the value of the goods sold. **(2mks)**

18. A metal R is an alloy of two metals X and Y. Metal X has a mass of 70g and a density of $16g/cm^3$. Metal Y has a mass of 19g and a density of $4g/cm^3$.

(a) Calculate the density of the metal R. **(4mks)**

(b) If metal R is divided into two equal parts and each half reinforced by adding metal X to get to initial volume. Find the density of the new alloy. **(4mks)**

(c) The two metals are mixed in a ratio of 4:1 respectively. What is the density of the alloy? **(2mks)**

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19. Odete and Akala entered into a business partnership in which they contributed ksh. 120,000 and ksh. 150,000 every year respectively. After one year Chelang'a joined the business and contributed ksh. 90,000.

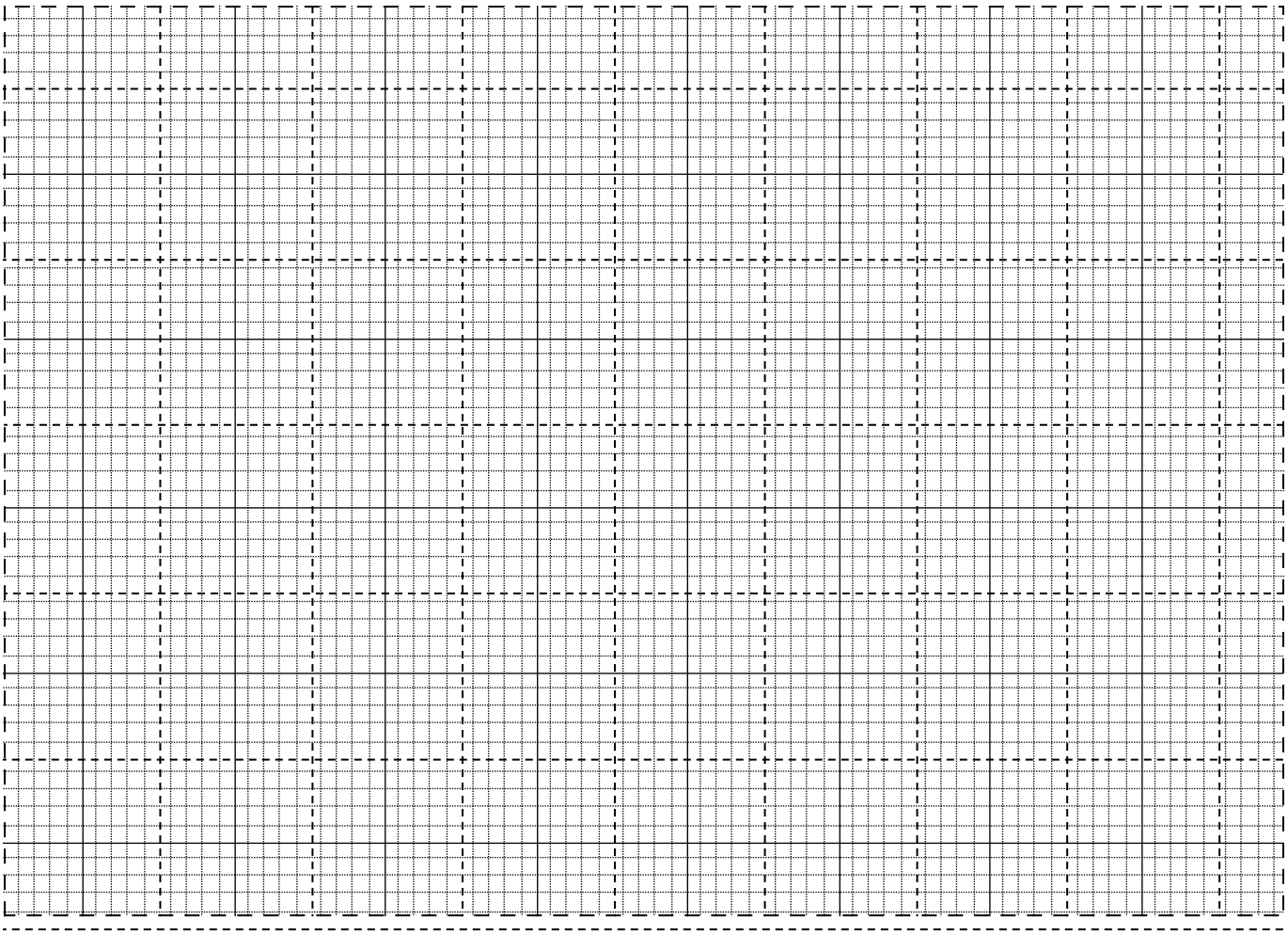
(a) Calculate the ratio of their investment after 3 years of business. **(3mks)**

(b) It was agreed that 30% of the profits after 3 years be used to cater for the cost of running the business, while the remaining would be shared proportionally. Calculate each person's share, if the profit made after three years has ksh. 187,000. **(4mks)**

(c) If each of them invested their shares back in the business, find their new individual investments at the beginning of the fourth year. **(3mks)**

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20. a) Plot the graphs of the equations y=2x + 3 and y=$-\frac{1}{2}$x +3. **(4mks)**



Use your graph to find the coordinates of the point of intersection of the two lines. **(2mks)**

Hence, state the solutions to the equations y = 2x + 3 and y = $-\frac{1}{2}$x +3. **(2mks)**

Find the angle made by the line y = 2x+3 and the x-axis. **(2mks)**

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21. A rectangular plot has a length of 15m more than the width. A lady walks around the entire perimeter making a total of 3000 strides of equal lengths of 6 cm. Determine

a) The length and width of the plot in meters. **(4mks)**

b) The perimeter of the plot in meters. **(2mks)**

c) The area of the plot in hectares. **(2mks)**

d) The diagonal length **(2mks)**

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PROGRESSIVE STUDENTS FORM ONE
MID TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

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

PHYSICS (232)
FORM ONE (1)
Time: 2 *Hours*

Instructions to Candidates

- Write your name, admission number, class and signature in the spaces provided at the top of the page.
- Answer ALL the questions in the spaces provided.
- All work 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

QUESTIONS	MAXIMUM SCORE	CANDIDATE'S SCORE
1-18	**70**	

SECTION A (25 MARKS)

Answer all the questions in this section in the spaces provided

1. The mass of a bucket containing sand was found to be 12 kg. If the volume of the sand was $2900cm^3$ and that the mass of empty bucket was 0.3 kg, find the density of sand. **(2mks)**

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2.Figure1 (a) shows a steel needle resting on water surface:

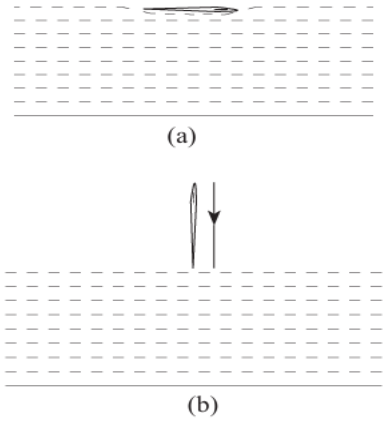


Figure 1

(i) What makes the needle to float in (a)? **(1mk)**

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(ii) Explain what would happen if the needle was placed vertically on the water surface as in figure (b). **(2mks)**

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3. The pressure at the top of a mountain is found to be 700 mmHg. Calculate the height of the mountain given that the density of mercury is$13600\ kg/m^3$, density of air $1.25\ kg/m^3$and the pressure at sea level is 760 mmHg. $(g = 10N/kg)$ **(2mks)**

4. Two samples of bromine vapor are allowed to diffuse separately under different conditions: one in a vacuum and the other in air. In which of the conditions will bromine diffuse faster? **(1mk)**

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5.The figure 2 below shows the flame of bunsen burner immediately after being lit from above the gauze:

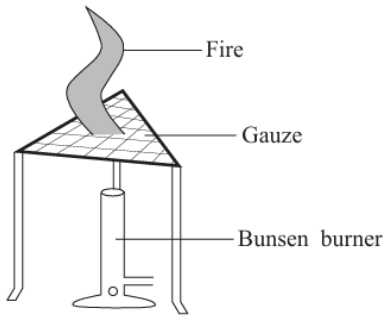


Figure 2

Explain why it takes some time before the flame crosses to the region below. **(2mks)**

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6. In the figure 3 below, state the resultant force on the body: **(2mks)**



Figure 3

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7.The figure 4 below shows a set-up for investigating the thermal expansion of water:

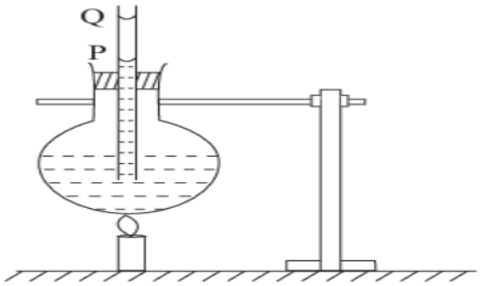


Figure 4

The level of water in the tube initially falls slightly before it rises from P to Q. Explain. **(2mks)**

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8.State two factors considered when choosing a thermometric liquid. **(2mks)**

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9.What is meant by Brownian motion? **(1mk)**

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10. State two factors that determine pressure in a liquid at a particular place. **(2mks)**

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11. State the advantage of using a density bottle instead of a measuring cylinder in determining density. **(1mk)**

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12. The figure 5 below shows two blocks A and B placed against a sphere on a meter rule:

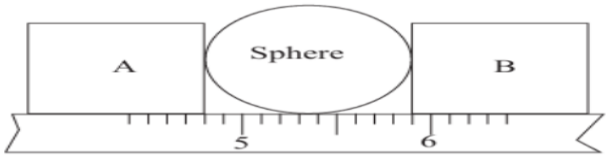


Figure 5

Determine the radius of the sphere. **(2mks)**

13. In an experiment to determine the density of certain solid B, the following readings were obtained using a density bottle;

Mass of empty density bottle = 9 g

Mass of the density bottle + solid B = 99 g

Mass of the density bottle + Water = 88 g

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Calculate the density of solid B. (Take density of water to be1 g/cm^3) **(3mks)**

SECTION B (45 MARKS)

Answer all the questions in this section in the spaces provided

14. The diagram shows different states of matter:

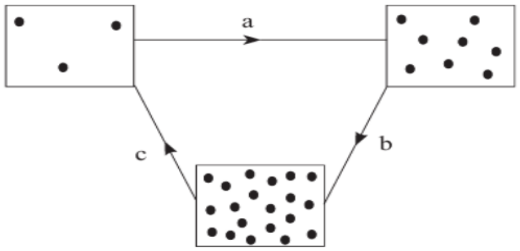


Figure 6

(a) Name the process occurring at:

A: _____

B: _____

C: _____ . **(3mks)**

(b) In another experiment, the volume of a fixed mass of water was measured at various temperatures between0℃ and10℃ .

(i) Sketch a graph of volume against temperature that would be obtained. **(2mks)**

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(ii) On the graph, mark using letter X the point where water has the highest density. **(1mk)**

(iii) State one advantage of the property of water illustrated in the diagram in (ii) above. **(1mk)**

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15. The figure shows a hydraulic lift. The area of the smaller piston B is $8cm^2$ while that of piston A is $440cm^2$.

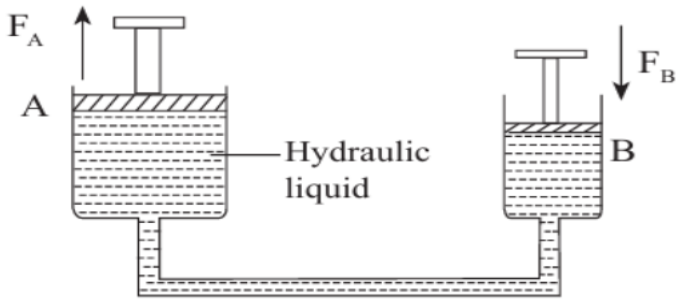


Figure 7

A force F_B is applied on piston B and this generates an upward thrust on piston A.

(a) State why a gas cannot be used in place of the hydraulic liquid. **(2mks)**

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(b) Express the force F_A in terms of F_B . **(3mks)**

(c) Calculate the maximum load that can be lifted by piston A when a force of 120 N is applied on B. **(3mks)**

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16. The motion of smoke particles enclosed in a smoke cell can be studied using the set-up shown below:

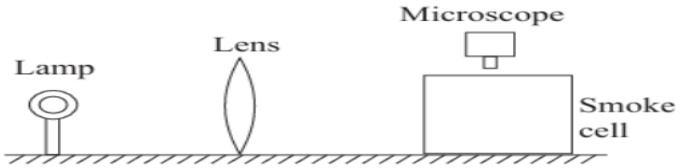


Figure 8

(a) Draw a diagram to show how the smoke particles appear under the microscope. **(2mks)**

(b) (i) Explain what happens in the smoke cell**.** **(2mks)**

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(ii) What is the purpose of the microscope and lens? **(2mks)**

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(c) State two factors that affect the motion of the particles in the smoke cell. **(2mks)**

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(d) Explain why solids have a definite shape but liquids take the shape of the container in which they are put. **(2mks)**

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17. (a) Define pressure and give its SI units**.** **(2mks)**

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(b) (i) State the principle of transmission of pressure in liquids. **(1mk)**

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(ii) State three important properties of the fluid used in the hydraulic system. **(3mks)**

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(c) The figure 9 below shows a U-tube with gas trapped at one end by a liquid of density $1400\ kg/m^3$

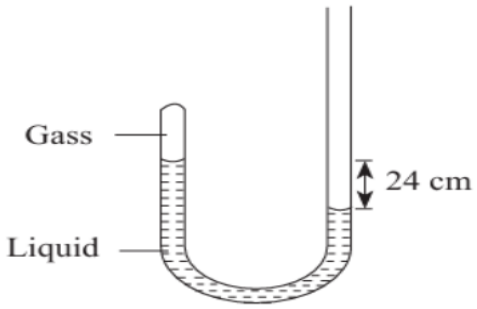


Figure 9

Given that atmospheric pressure is$103000\ N/m^2$, determine the gas pressure. **(3Mks)**

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18. The weight of a 16 kg object is 80 N on a certain planet.

(a) Find the gravitational field strength on the planet. **(2mks)**

(b) If an object weighs 140 N on the planet, find its mass**.** **(2mk)**

(c) Two metals X and Y welded together are heated so that they break the contact shown at P in the figure.

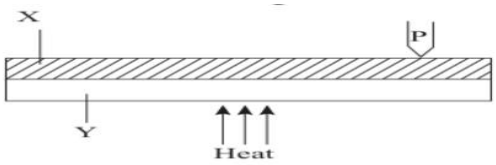


Figure 10

Explain how the contact is broken. **(2mks)**

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(d) The figure 11 shows an electric hot plate being used to heat a sauce pan containing water.

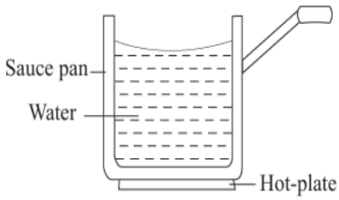


Figure 11

(i) By what method is the heat transferred through the pan? **(1mk)**

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(ii) Explain why plastic is used as material for the handle. **(1mk)**

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(iii) Explain how water gets heated to the point of boiling. **(2mks)**

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