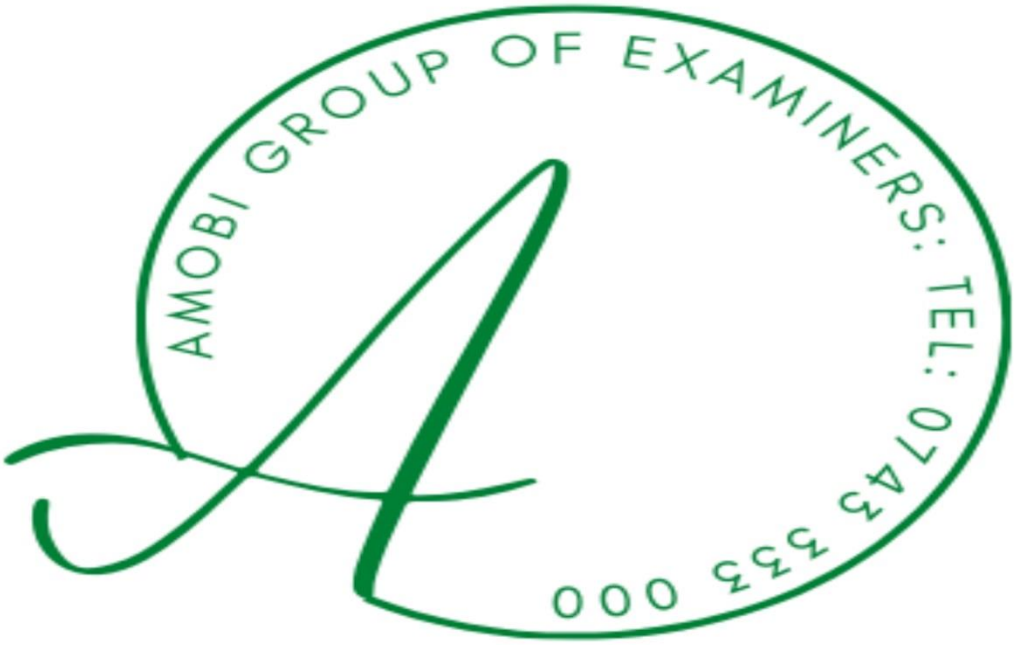
PROGRESSIVE STUDENTS F2 END TERM 2 SERIES 1 EXAMS *(14 SUBJECTS TESTED)*



PROGRESSIVE STUDENTS FORM TWO END TERM 2 SERIES 1 EXAMS

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***N/B** In Response to the Huge Costs Associated in Coming Up with Such/Similar Resources Regularly, We inform us All, MARKING SCHEMES ARE NOT FREE OF CHARGE. However Similar QUESTIONS, Inform of soft Copies, are Absolutely FREE to Anybody/Everybody. Hence NOT FOR SALE by Amobi Group of Examiners.*

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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- 70 Biology Graphical/Essays Qsns
- 70 Biology Pictorial Practical Qsns
- Poetry & Ushairi Qsns.... e.t.c

END TERM 2 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN:……..… DATE: ……..

AGRICULTURE
FORM TWO (2)
Time: 2 Hours

INSTRUCTIONS TO CANDIDATES

a. Write your name and admission number in the space provided
b. Sign and write the date of examination in the space provided above
c. This paper consist of three sections A, B and C (100mks)
d. Answer all the questions in sections A and B and C
e. All answers should be written in the spaces provided
f. Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing

FOR EXAMINERS USE ONLY

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATES SCORE
A	1-25	40	
B	26-29	20	
C	30	20	
	31	20	
TOTAL SCORE		100	

SECTION A: (40 MARKS)

ANSWER ALL QUESTIONS IN THE SPACE PROVIDED

1. Give two ways in which agriculture contributes to industrial development **(1mk)**

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2. Name two tertiary operations carried out during land preparation **(1mk)**

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3.Name one livestock disease transmitted by each of the following parasites **(1½mks)**

(a) Blue tick

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(b) Brown ear tick

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(c) Tsetse fly

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4. Name three tools used in handling cattle during an agricultural exhibition **(1½mks)**

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5.Name two ways in which proper nutrition helps to control livestock diseases **(1mk)**

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6.Name four properties of clean and safe water for domestic use on the farm **(2mks)**

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7. Name four qualities that are considered when grading tomatoes for fresh market **(2mks)**

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8. Give the correct terms used for the following routine practices **(2mks)**

(a) Removal of extra suckers in a banana stool

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(b) Removal of old stems down to the level of top foliage in pyrethrum

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(c) Removal of suckers in coffee bushes

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(d) Removal and destruction of infected plants and plant parts

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9. Name two dual purpose breed of sheep **(1mk)**

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10. Name four non-pathogenic causes of diseases in livestock **(2mks)**

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11. Give four ways of applying fertilizers in the field of horticultural crops **(2mks)**

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12. Give four practices that help in achieving minimum tillage **(2mks)**

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13. State four reasons why most farmers do not use green manure in crop production **(2mks)**

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14. Outline four beneficial effects of soil organisms for plant growth **(2mks)**

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15. Give two practices that are carried out during the hardening off in tomato seedlings **(1mk)**

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16. State one use of each of the following **(1mk)**

(a) Spokeshave

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(b) Plumb bob

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17. Mention four advantages of raising seedlings in polythene sleeves **(2mks)**

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18. List four benefits a farmer may get by practicing crop rotation **(2mks)**

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19. Name the complementary tool for each of the following **(1mk)**

(a) Trocar

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(b) hand drill

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20. State two benefits of liming in crop production **(1mk)**

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21. Explain the following terms as used in fertilizers

(a) Fertilizer grade **(1mk)**

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(b) Fertilizer ratio **(1mk)**

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22. List four predisposing factors to livestock diseases **(2mks)**

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23. Give four ways in which diseases can be passed on from one animal to another **(2mks)**

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24. Name four insect parasites that attack livestock **(2mks)**

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25. Give two conditions that encourage damping off disease in a nursery bed **(1mk)**

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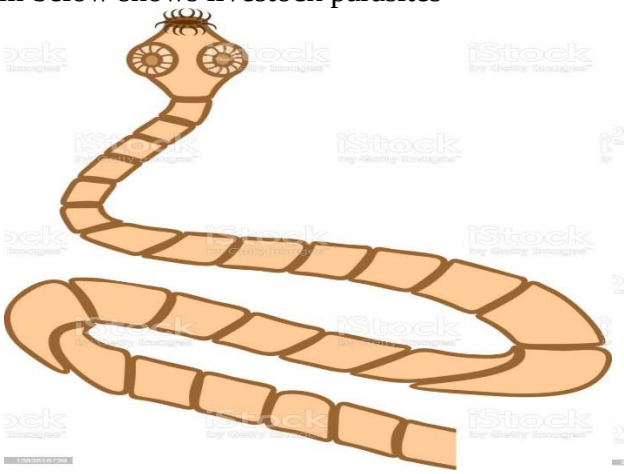
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SECTION B: (20 MARKS)

ANSWER ALL QUESTIONS IN THE SPACE PROVIDED

26. The diagram below shows livestock parasites



E



F

(a) Identify the parasite labelled E and F **(2mks)**

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(b) Name the organ where each of the parasites is commonly found **(2mks)**

(i) Parasite E

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(ii) Parasite F

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(c) Name the intermediate host of the parasite labelled **E** **(1mk)**

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27. The diagram below shows a method of draining water logged soils. Study it and answer the questions that follow



(a) Identify the method illustrated **(1mk)**

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(b) Give two reasons for draining water logged soils **(1mk)**

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(c) Apart from the method illustrated above name other three ways of draining water logged soils **(3mks)**

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28. The diagram below shows a pest and the damaged crop. study it and answer the questions that follow.



(a) Identify the crop pest illustrated above **(1mk)**

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(b) What damage does the pest cause to the crop **(1mk)**

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(c) State two ways of controlling the pest above **(2mks)**

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(d) Other than the illustrated pest name other two pests that attack the crop shown **(1mk)**

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29. The diagram below shows vegetative propagation materials, use them to answer the questions that follow



Q P

(a) Identify the vegetative propagation materials represented in diagrams Q and **P** **(2mks)**

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(b) Name a crop that is propagated by the materials in the diagram Q and P **(2mks)**

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(c) Other than the vegetative material labelled Q name other materials used to propagate onions **(1mk)**

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SECTION C: (40 MARKS)

ANSWER ALL QUESTIONS IN THE SPACE PROVIDED

30.

(a) Explain FIVE factors considered when siting a vegetable nursery bed **(5mks)**

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(b) Explain how each of the following environmental factors influence crop production

(i) Temperature **(5mks)**

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(ii) Wind **(5mks)**

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(c) Explain five advantages of mulching in crop production **(5mks)**

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31. Describe the production of tomatoes under the following sub headings

(a) Land preparation **(3mks)**

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(b) Transplanting **(7mks)**

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(c) Field management practices **(7mks)**

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(d) Diseases that attack tomatoes **(3mks)**

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PROGRESSIVE STUDENTS FORM TWO
END TERM 2 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN:……..… DATE: ……..

BIOLOGY THEORY (231)
FORM TWO (2)
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	Maximum Score	Student's Score
A	40	
B	40	
TOTAL	80	

SECTION A (40 Marks)

1. Name the branch of Biology that deals with the study of the following: **(3mks)**

a) Cells **…….**

b) Development of techniques for the application of biological processes**……..**

c) Structure of tissues **……**

2. Explain how the following factors increase the rate of water loss from a plant leaf.

a) Broad leaf surface **(1mk)**

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b) Wind **(2mks)**

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3. Arrange the following in the ascending order: **(2mks)**

a) Division, Species, Kingdom, Order, Class

……

……

b) Cell, Organ, Organism, Organelle, Tissue.

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4. a) Name the cell responsible for Carbon (IV) oxide transport in human beings. **(1mk)**

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b) Give **two** advantages of Carbon (IV) oxide transport by the cells named in (a). **(2mks)**

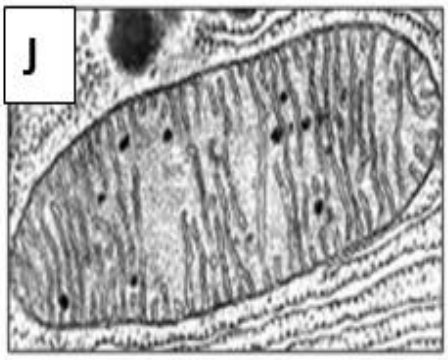
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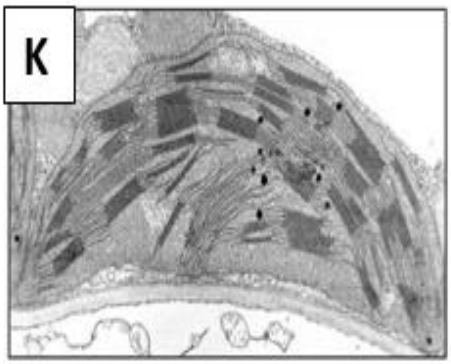
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5. The following are photomicrographs of two common organelles





a) State **two** ways in which reaction in organelle **J** is beneficial to reactions in **K**. **(2mks)**

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b) Name the structure that increases surface area for reactions in organelle **J.** **(1mk)**

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6. How are the following structures important in the human body? **(2mks)**

a) Pericardium

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b) Pleural membrane

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7. a) Name the part of the brain that influences gaseous exchange in human beings. **(1mk)**

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b) Describe how intercostal muscles influence inhalation in mammals. **(4mks)**

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8. Explain how the following affects energy requirements in mammals

a) Increase in Body Size **(2mks)**

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b) Being male **(2mks)**

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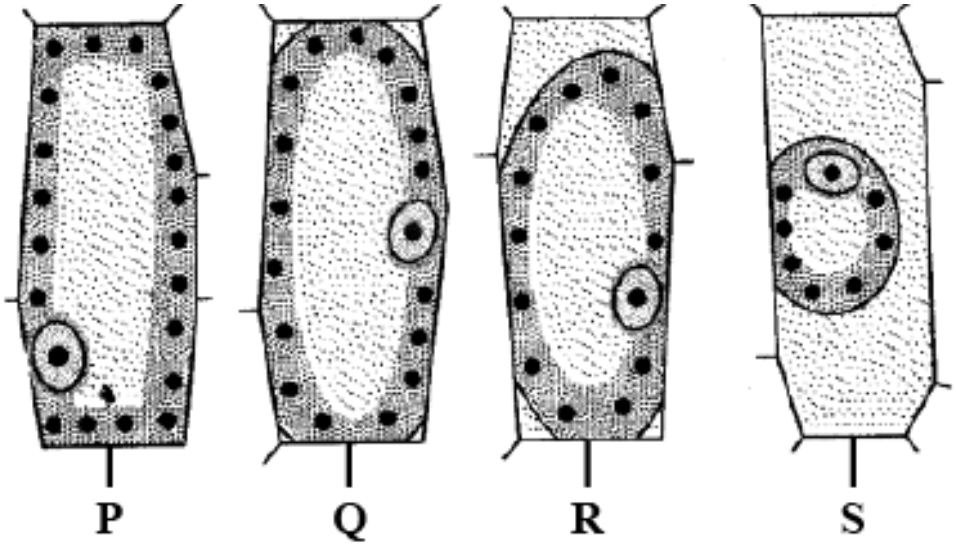
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9. A normal plant cell was placed in Solution **X** and went through stages **P**, **Q**, **R** then **S**.



a) State the identity of Solution **X.** **(1mk)**

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b) Account for the appearance of the cell at stage **S.** **(2mks)**

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c) At stage **S** the space between the cell wall and the plasma membrane of the cell was found filled with Solution **X**. Name the physiological process that enabled this. **(1mk)**

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10. State the functions of the following apparatus. **(2mks)**

a) Bait trap ……..

b) Pooter ……..…….

11. Samson wrote the scientific name of Lion as PANTHERA LEO.

a) Give the name of this system of naming organisms **(1mk)**

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b) Write the scientific name of Lion in the correct way **(1mk)**

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12. Name the carbohydrates that make up the following structures in living organisms. **(2mks)**

a) Xylem ……

b) Exoskeleton of insects ……

13. Amina was given orange juice, reagent **K**, boiling tube, measuring cylinder, test tube holder and source of heat. She was instructed to test for reducing sugar in the juice.

a) Name reagent **K** ……..…… **(1mk)**

b) State the steps she was to follow in this experiment. **(3mks)**

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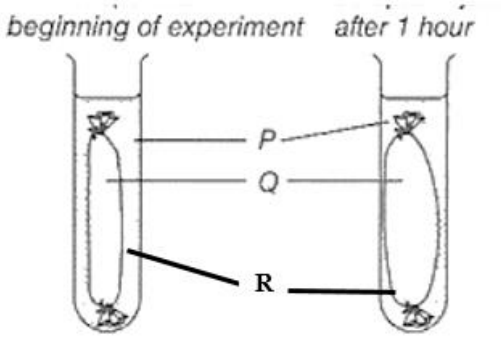
c) State the observation she made for a positive result. **(1mk)**

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14. The set up shown below was used to investigate a physiological process by Form 2 learners. **P** and **Q** represent solutions of different concentrations.



a) Name **two** materials in the school laboratory that can be used as **R.** **(2mks)**

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b) Which term is used to describe solution **P** in relation to solution **Q**? **(1mks)**

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c) Account for the observation made in **Q** after 1 hour. **(3mks)**

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d) How is the process investigated in the experiment shown above important to the function of chloroplast? **(2mks)**

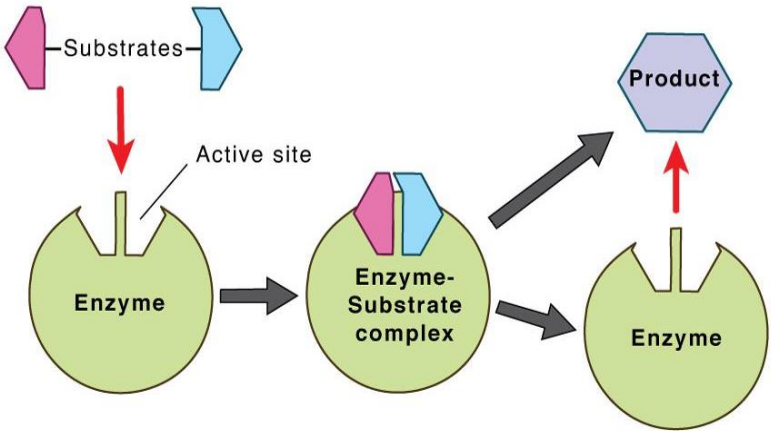
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15. The diagram shown below is a schematic representation of enzyme-substrate interaction



a) i) Describe how temperature beyond optimum will affect product formation in the reaction shown above. **(2mks)**

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ii) List **three** factors that will increase the rate of reaction in the set up above apart from temperature. **(3mks)**

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b) Name the main product from the set-up above in a reaction where the following enzymes are involved **(3mks)**

i) Lactase

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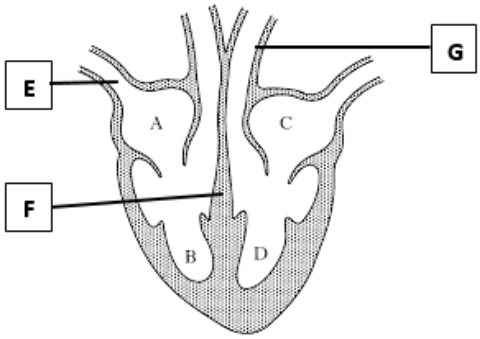
ii) Carbonic Anhydrase

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iii) Catalase

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16. The diagram shown below represents a mammalian heart.



a) State the difference in composition of blood found in blood vessels **E** and **G** in terms of the following:**(2mks)**

Feature	Blood Vessel E	Blood Vessel G
Amount of Nitrogenous Wastes		
Oxygen Concentration		

b) Name the valve that prevents backflow of blood: **(2mks)**

i) From **G** to **D**

……

ii) From **D** to **C**

……

c) What is the significance of the following? **(2mks)**

i) D having a thicker wall than **B**

……

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ii) Presence of part **F**

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d) Explain the advantage organisms with the heart structure above have over the rest. **(2mks)**

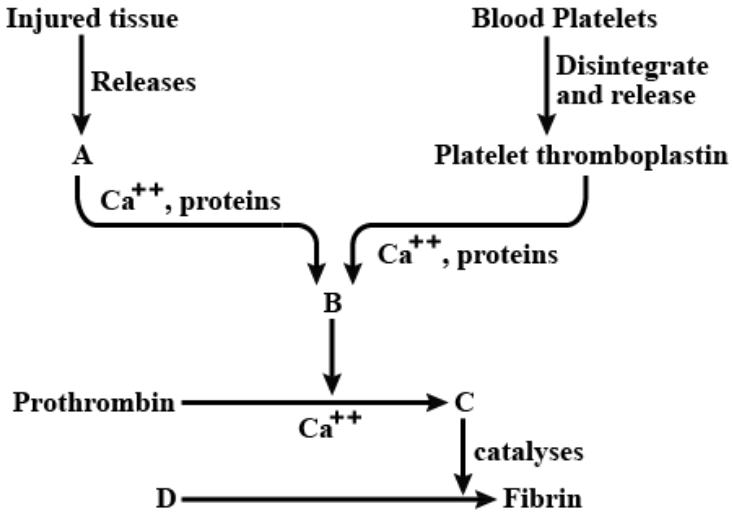
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17. The following is a schematic representation of the blood clotting process.



a) Identify the following components of the blood clotting process. **(2mks)**

i) C ……...

ii) D ……..

b) i) Name the component of blood that stops the process illustrated above. **(1mk)**

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ii) Give **two** ways by which the compound mentioned in b(i) hinders the blood clotting process. **(2mks)**

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c) Name the vitamin that is useful in the process above. **(1mk)**

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d) Give **two** ways in which the process illustrated above is important to the mammalian body. **(2mks)**

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18. Penina counted 10 onion epidermal cells along the diameter of field of view of a light microscope. The field of view had a radius of 2.5mm.

a) Determine the diameter of one cell in micrometers. **(2mks)**

b) If she used Eye piece lens magnification of X15 and Objective lens magnification of X40, determine the following:

i) Total Magnification used. **(2mks)**

ii) Actual diameter of one cell. **(2mks)**

c) Give **two** reasons why this method of cell size estimation is not accurate. **(2mks)**

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THIS IS THE LAST PRINTED PAGE.

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PROGRESSIVE STUDENTS FORM TWO
END TERM 2 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN:……..… DATE: ……..

TERM TWO
565- BUSINESS STUDIES
FORM TWO
Time: 2½ Hours

INSTRUCTIONS TO CANDIDATES

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

b) Write the date of examination in the spaces provided above.

c) Answer **ALL** the questions.

d) **ALL** answers must be written in the spaces provided in this booklet.

FOR EXAMINER'S USE ONLY

Question	1	2	3	4	5	6	7	8	9	10	11	12	13
Marks													

Question	14	15	16	17	18	19	20	21	22	23	24	25	TOTAL
Marks													

Answer all questions

1.From the following list of items, classify them to their internal or external business environment by ticking (√)

(4mks)

	Item	Internal	External
(i)	Invested funds		
(ii)	Technology applied		
(iii)	Employees		
(iv)	Cultural factors		
(v)	Tools		
(vi)	Entrepreneur		
(vii)	Government laws and regulation		
(viii)	Taxes		

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2. State **four** advantages of an open office plan. **(4mks)**

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3. State **four** distinctive features of a parastatal. **(4mks)**

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4. Highlight four disadvantages of multiple stores **(4mks).**

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5.Highlight **four** disadvantages of government involvement in business activities. **(4mks)**

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6. Give **four** basic characteristics of a business idea. **(4mks)**

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

(i) Used to store locally produced goods until custom duty is paid.

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(ii) Mostly situated at accessible points and are available at a fee.

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(iii) Warehouse used to store non-dutiable goods originating from within or outside the country

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(iv) Warehouse designed to suit one's particular needs.

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8. Highlight **four** advantages a seller will have by changing from counter service to self-service for customers. **(4mks)**

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9. Outline **four** current trends in the transport sector in Kenya. **(4mks)**

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10. Highlight **four** measures consumers may take to satisfy their unlimited wants using limited resources. **(4mks)**

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11. State four characteristics of a good entrepreneur **(4mks)**

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12. State four roles of the stock exchange as a market for securities **(4mks)**

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13. State the line of communication involved in each of the following situations**.** **(4mks)**

a) The manager of Safaricom Company Ltd talking to the manager of Airtel Company Ltd.

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b) A messenger asking for time off from her boss.

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c) Rumors going around that the company will be closing down due to harsh economic conditions

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d) The production manager discussing the company prospects with the sales manager

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14. State **four** ways of classifying partners in business enterprises. **(4mks)**

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15. Give four differences between a private limited company and a public limited company **(4Mks)**

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16. Name the business document that each of the following descriptions refers. **(4Mks)**

Description	Document
It is used to correct an overcharge in an invoice	
It is used to alert the buyer that ordered goods are on the way	
Summarize all monthly credit transactions between regular buyer and seller.	
It is a reply to an inquiry that contains descriptions, illustrations, terms of sale, and prices of goods	

17. Outline four reasons why a business person may prefer written communication to verbal communication. **(4Mks)**

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18. Outline four circumstances when the government may introduce regulatory measures to protect consumers from exploitation by business people. **(4mks)**

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19. Outline four benefits that consumers get from warehousing. **(4mks)**

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20. Highlight four limitations associated with water transport. **(4Mks)**

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21. Outline four barriers to effective communication. **(4Mks)**

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22. State four circumstances under which cheque as a means of payment would be appropriate. **(4Mks)**

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23. Highlight four possible sources of capital for a co-operative society. **(4Mks)**

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24. Highlight four types of utility in the production and consumption of goods and services. **(4Mks)**

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25. State four essential elements of transport. **(4Mks)**

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PROGRESSIVE STUDENTS FORM TWO
END TERM 2 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN:……..… DATE: ……..

CHEMISTRY – (233)
FORM TWO (2)
Time - 2 Hours

INSTRUCTIONS TO THE CANDIDATES:

- Write your **name**, **admission number and date** in the spaces provided above
- Answer ***all*** the questions in the spaces provided.
- All working **must** be clearly shown where necessary.
- Mathematical tables and electronic calculators can be used.

For Examiners Use Only

Question	Maximum score	Candidate's score
1	13	
2	14	
3	14	
4	09	
5	11	
6	09	
7	10	
Total	80	

1. (a) The table below shows some of the properties of period III elements.

Element	Q	R	V	X	Y	Z
Atomic Radii(nm)	0.136	0.099	0.125	0.117	0.110	0.157
Formulae of oxide	QO	R_2O	V_2O_3	XO_2	Y_2O_5	Z_2O
Melting point(^oC)	650	110	660	119	44.2	97.8
Conductivity	Good	Poor	Good	Poor	Poor	Good

(i) From the table which elements could be:

I. Magnesium**……** **(1mk)**

II. Sulphur**……..** **(1mk)**

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(ii) Write the formula of the chloride of X. ……... **(1mk)**

(iii) Arrange the elements as they appear from left to right in the periodic table **(2mks)**

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(iv) What type of bonding would you expect the chloride of Y to exhibit? **(1mk)**

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(v) Write a chemical equation for the reaction of oxide of Y with water. **(1mk)**

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(b) Use the information in the table below to answer the questions that follow.

	Ionization Energy in kJ			
Element	1^{st}	2^{nd}	3^{rd}	4^{th}
V	320	580	4900	7200
W	430	4300	6200	8300
X	600	1050	1450	16000
Y	7000	9000	10500	14000
Z	200	420	5200	6600

(i) Name two elements that can be found in the same group? **(1mk)**

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(ii) To which group does element W belong? Explain. **(2mks)**

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(iii) Element Y is found to be in Group IV. Write the formula when it reacts with reacts oxygen gas. **(1mk)**

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(iv) Which of the elements named in 'i' above is more reactive? Explain. **(2mks)**

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2. (a) Hydrogen can be prepared by reacting zinc with dilute hydrochloric acid.

(i) Write an equation for the reaction **(1mk)**

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(ii) Name an appropriate drying agent for hydrogen gas. **(1mk)**

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(iii) Hydrogen burns in oxygen gas to form an oxide. Write an equation for the reaction. **(1mk)**

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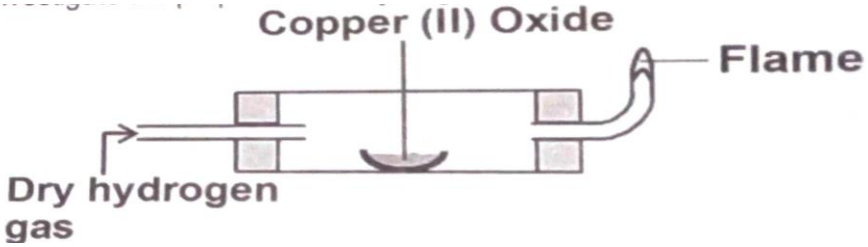
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(iv) When zinc is heated to redness in a current of steam, hydrogen gas is obtained. Write an equation for the reaction. **(1mk)**

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(b). The set up below is used to investigate the properties of hydrogen.



(i) On the diagram, indicate what should be done for the reaction to occur. **(1mk)**

(ii) Hydrogen gas is allowed to pass through the tube for some time before it is lit. Explain. **(1mk)**

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

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(iv) When the reaction is complete, hydrogen gas is passed through the apparatus until they cool down. Explain. **(1mk)**

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(v) What property of hydrogen is being investigated? **(1mk)**

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(vi) Describe how copper could be obtained from the mixture containing copper (II) oxide. **(3mks)**

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(vii) Why is zinc oxide not used to investigate this property of hydrogen gas**?** **(1mk)**

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3. The table below shows some of the elements of the periodic table and their atomic numbers, atomic masses and melting point. The letters are not the actual symbols of the elements

Element	B	C	D	E	F	G	H	I	J	K
Atomic Number	7	8	19	15	2	9	6	16	12	11
Mass number	14	16	39	31	4	19	12	32	40	23
Melting point(^oC)	-209	-218	63	44	-272	223	VARRY	113	669	98

(a) Select two elements with oxidation state of -3. **(2mks)**

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(b) Which elements represent the most powerful reducing agent? **(1mk)**

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(c) How does the atomic radii of D compare with that of K. Explain. **(2mks)**

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(d) How do you compare the electrical conductivity of element J and K. Give your reason? **(2mks)**

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(e) Select two elements which when reacted with element G forms a compound that conducts electricity both in molten and aqueous state. **(2mks)**

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(f) Select two elements that have a common valency. Name the elements. **(2mks)**

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(g) In which group and period does element D belong? **(1mk)**

Group ……

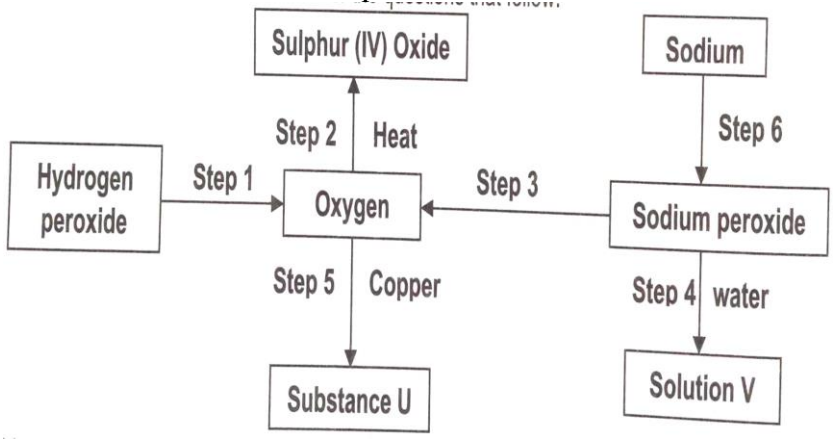
Period. ……

(h) Select one element stored in **(2mks)**

i) Water……

ii) Paraffin……

4. Study the reaction scheme below and answer the questions that follow.



(a) Identify substance U and solution V (2marks)

U: ……

V: ……

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(b) Name the reagents necessary for the reactions in the following steps. **(2mks)**

Step 1

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Step 2

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Step 3

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Step 6

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(c) Give condition necessary for the reaction in step 5 to take place. **(1mk)**

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(d) Write balanced chemical equations for the reactions in the following steps.

Step 1 **(1mk)**

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Step 2 **(1mk)**

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Step 5 **(1mk)**

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(e) State and explain the observation made in step 5. **(1mk)**

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5. A form two student was asked to prepare a sample of copper (II) sulphate crystals using the procedure below.

→Measure 100cm^3 of 2M sulphuric (VI) acid then warm. Add excess copper (II) oxide powder.

→Filter the resulting mixture. Heat the filtrate and leave it overnight.

(a) Why was the acid heated before the start of the reaction? **(1mk)**

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(b) Why was excess copper (II) oxide used? **(1mk)**

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(c) What was observed when copper (II) oxide was added to the warm acid? **(2mks)**

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(d) Write an equation for the reaction that took place in (c) above. **(1mk)**

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(e) Give reasons for carrying out the following processes:

i. Filtration of the mixture. **(1mk)**

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ii. Heating the filtrate and leaving it overnight **(2mks)**

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(f) Explain how dry crystals of copper (II) sulphate are finally obtained. **(1mk)**

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(g) Explain why it would not be possible to prepare copper (II) sulphate salt by reaction of dilute sulphuric acid with copper metal. **(2mks)**

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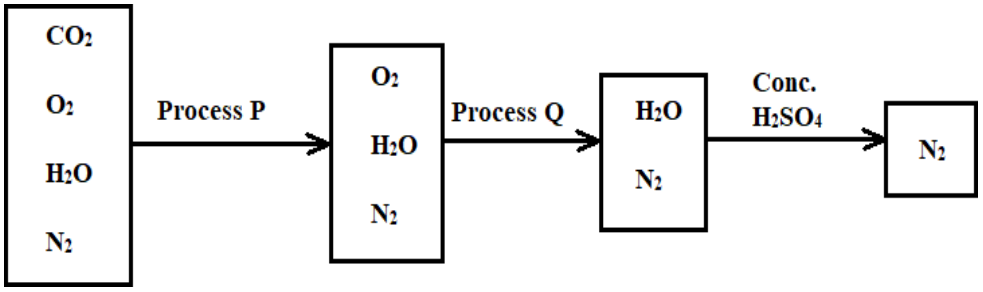
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6. The flow diagram below shows the process of obtaining nitrogen from a sample of air. Use it toanswer the questions that follow



(a) What is the purpose of processes **P** and **Q**?

P……..…….... **(1mk)**

Q……...….. **(1mk)**

(b) Identify the reagents used in the processes **P** and **Q**

P…….. **(1mk)**

Q……...…… **(1mk)**

(c) Write equations for the reactions taking place during processes **P** and **Q** **(2mks)**

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(d) Comment on the purity of the nitrogen gas collected **(1mk)**

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(e)A student categorized air as a compound and not as a mixture. Give **two** reasons as to why the student was wrong **(2mks)**

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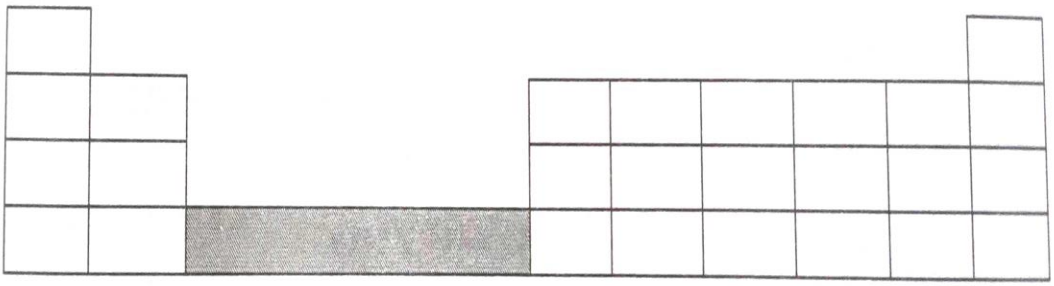
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7. Study the information given in the table below and use it to answer the questions that follow.

Element	Description
A	An element with 7 protons
B	It belongs to period three and has 4 electrons in the outermost energy level
C	An element with oxidation number +3 and with 13 protons
D	An element that forms its ions by loss of one electron and belongs to period 4
E	An element that can be placed in group I or group VII
F	An element with the highest number of energy levels and belongs to group II.
G	An element with electronic configuration of 2.8.7
H	An element with a valiancy of 3. It gains electrons to form ions and belongs to period 3

(a) Put the above letters A to H in the correct places in the periodic table below to fit the descriptions. **(4mks)**



(b) State the name given to the elements placed in the shaded region. **(1mk)**

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(c) Draw a dot (.) and cross (x) diagram to show the bonding between the elements F and G. **(1mk)**

(d) Compare the atomic radius of elements D and H. Explain. **(2mks)**

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(e) State two uses of element E **(2mks)**

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PROGRESSIVE STUDENTS FORM TWO
END TERM 2 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN:……..… DATE: ……..

TERM TWO EXAMINATIONS

COMPUTER STUDIES
FORM TWO
TIME – 2 HOURS

INSTRUCTIONS:

Answer ALL the questions in the spaces provided

QUESTIONS	MAX SCORE	Score
1 - 30	100	

1.State **three** precautions that should be taken to ensure proper ventilation in a computer laboratory. **(3mks)**

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2. List **three** softcopy output devices. **(3mks)**

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3. State **two** reasons for partitioning a computer hard disk **(2mks)**

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4. State **four** factors to consider when selecting an operating system **(4mks)**

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5.State **four** editing actions that can be performed on a table in a word processor **(4mks)**

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6. Describe **four** alignment features as used in an electronic word processor program **(4mks)**

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7. State **three** challenges that may cause a printer not to print **(3mks)**

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8. A Chief Executive Officer of a company opted to order for computers for his organization. Two Companies applied for a tender of supplying computers. Company A computers had the following Specifications: 140 GB HDD, 3 GB RAM, 2.1 GHZ CPU. Company B had the following specifications: 240 MB HDD, 6 MB RAM, 4.2 KHZ CPU. The two companies offered the same price for the computers.

a) Which company should be granted the supply contact? **(1mk)**

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b) State **three** reasons for making the decision on the company to win the contract in (a) above **(3mks)**

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9. In reference to ALU, explain the meaning of logic operations and give an example of this processing operation. **(2mks)**

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10. Distinguish between a function and a formula as used in spreadsheets**.** **(2mks)**

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

a. Absolute cell referencing

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b. Relative cell referencing

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12. State three reasons why we should shut down a computer using the right procedure **(3mks)**

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13. a) A formula to add the contents of B5 and C4 was entered in Cell F5. What will it become when it is copied to Cell H8? **(1mk)**

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b) What is the equivalent R1C1 reference for G20? **(1mk)**

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14. State three main features that make a word processor popular. **(3mks)**

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15. a) With aid of a diagram, distinguish between Portrait and Landscape orientations. **(4mks)**

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b) Give **two** reasons of previewing a document before printing. **(2mks)**

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c) List any **two** sources of graphics that can be used in Microsoft Word. **(2mks)**

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16. Distinguish between disk compressing and disk defragmenting **(2mks)**

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17. State three functions of the return key. **(3mks)**

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18. List **four** measures that are taken to protect users in a computer lab. **(4mks)**

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19. Describe **three** attributes that make computers widely accepted and used in the day-to-day activities in our society. **(6mks)**

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20. A firm intends to purchase new software. List **three** items of documentation that should accompany the software **(3mks)**

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21. Differentiate between hardware and software portability. **(2mks)**

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22. Small- and large-scale organizers are turning to the use of in-house developed software for processing activities rather than the use of standard software.

a. What is in-house developed software? **(2mks)**

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b. Give **three** reasons that may be influencing these organizations for such a decision. **(3mks)**

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23. State three contents of a warranty **(3mks)**

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24. Apart from portability, explain four factors to consider when selecting computer hardware for an organization. **(4mks)**

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25. Give **two** advantages of a USB interface cable over other cables in the computer **(2mks)**

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26. List **three** advantages of a laser printer over a drum printer. **(3mks)**

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27. a) What role do pixels play in screen display? **(1mk)**

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b) State two differences between a CRT monitor and a flat-panel display. **(2mks)**

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28. Explain the following terms as used in computer systems with reference to storage media. **(2mks)**

a. Read

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b. Write

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29. What is a Drive? (1mark)

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30. Explain four rules for handling a magnetic storage disk. (4marks)

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PROGRESSIVE STUDENTS FORM TWO
END TERM 2 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN:……..… DATE: ……..

CRE
FORM TWO
Time : 2 Hrs

ANSWER ALL QUESTIONS IN THE SPACES PROVIDED

1a) Explain the benefits of learning Christian Religious Education in Secondary schools in Kenya (8mks)

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b) Identify five poetic books in the Bible. **(5mks)**

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c) Describe seven ways in which Christians use the Bible to spread the gospel today. **(7mks)**

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2a) Give reasons why the Israelites broke the covenant they had made with God while at Mount Sinai (Exodus 32:1-35) **(6mks)**

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b) State six commandments which guide on the relationship among human beings **(6mks)**

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c) Describe the nature of the Canaanite religion **(8mk)**

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3a) What changes have taken place to the rite of initiation to adulthood in traditional African communities. **(5mks)**

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b) Describe the traditional African view of a community **(8mks)**

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c) List seven moral values promoted during funeral ceremonies in traditional African communities **(7mks)**

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4a) Outline Jeremiahs prophecies about the Messiah **(6mks)**

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b) What do Christians learn about the mission of John the Baptist from the message of Angel Gabriel to Zechariah **(8mks)**

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c) Give reasons why Christians present gifts to new born babies **(6mks)**

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5a) Describe the incidence that Jesus calmed the Storm (Luke 8:22-25) **(8mks)**

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b) What lesson did the disciple of Jesus learn from the miracle of the feeding of the five thousand **(6mks)**

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C) Identify problems faced by new converts in the church today **(6mks)**

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PROGRESSIVE STUDENTS FORM TWO

END TERM 2 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN:……..… DATE: ……..

ENGLISH

FORM TWO (2)

Time: 2 ½ Hours

Instructions to the candidates

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

ii. Questions one and two are compulsory.

iii. Choose any one question in question three.

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

v.The paper has 2 printed pages.

FOR EXAMINER'S USE ONLY

QUESTIONS	MAXIMUM SCORE	CANDIDATE'S SCORE
1. Comprehension	20	
2. Oral poetry	20	
3. Oral narrative	20	
4, Grammar	20	
TTOAL	80	

1. COMPREHNSION PASSAGE **20 MARKS**

A BILL OF RIGHTS

A bill of rights is a written a list of rights freedoms of citizens of country. It is designed to recognize, protect and preserve the dignity of people. It is therefore an important part of Kenya's constitution. The bill is guidance for ensuring that no citizen is treated unfairly. The right to life is a basic right. Every person has a right to live. The

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life of a person begins at conception. Abortion is, therefore not permitted except in cases where the life of a mother is in danger. It is therefore a crime to take another person's life.

Every person is equal before the law, and has the right to equal protection and benefits of the law. Before the law, therefore should be no difference with regard to a person's sex, religion, political affiliation, race or status in society. The law should be applied in all cases equally. For instance, if the law states that punishment for stealing is imprisonment that should be applied in all cases whether the person who has stolen is a Christian or Hindu, male or female, master or servant.

The state shall not discriminate directly or indirectly against any person on any basis including race, sex, pregnancy, marital status, health status, ethnic or social origin, colour, age, disability, religion, conscience, belief, culture, dress, language or birth. People should not discriminate directly or indirectly against others on the same bases. For instance, if a student performs well in the Kenya Certificate of Primary Education (KCPE), they should not be denied admission to secondary school because of their religion, race or culture. The state will therefore, take specific measures to ensure that people are not discriminated against.

Women and men have the right to equal treatment including the right to equal opportunities in political, economic, cultural and social activities. In addition, both men and women have an equal right to inherit or have access to and manage property. Any law, culture, custom or tradition that undermines the dignity, welfare, interest or status of women or men is prohibited. For instance, although in some cultures all property including land belongs to men, the constitution states that women have a right to own property. By law, women in such a community can insist on their right to own land and property.

In the proposed revised constitution of Kenya, the state shall take measures to ensure that women and their rights are protected. The state shall also provide reasonable facilities and opportunities to ensure that women realize their full potential and advance in the society.

The youth constitute an important part of the society and are entitled to enjoy all rights and freedoms set out in the bill of rights, taking into account their unique needs. The state shall try to ensure that the youth have access to quality and relevant education, training and employment. The youth shall also be given a chance to participate in governance. The state shall also ensure that the youth have enough chances in the social, political, economic as well as other areas of national life. The youth, like other citizens have a right to associate with others to further their interests within the limits of the law. They are also entitled to protection from any culture, custom, tradition or practice that undermines their dignity or quality of life. They should lead a life free from exploitation, discrimination or abuse.

It is the duty of every state to observe respect, protect, promote and fulfill the rights and freedoms of the citizens. Laws, policies and other measures should be used to ensure that this rights and freedoms are recognized. A person

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has the right to complain to the commission of human rights and administrative justice, and take legal action if the rights or freedom are violated, infringed or denied.

QUESTIONS

1. What is a bill of rights? **(1mk)**

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2. Explain the purpose of the bill of rights? **(2mk)**

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3. State two rights mentioned in the passage? **(2mks)**

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4. In what ways, according to the Bill of Rights, are women treated as equal to men? **(3mks)**

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5. Explain how the state can ensure that the rights and freedoms of the youth are safeguarded? **(3mks)**

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6. Explain, using an example, how you can be discriminated against because of your age, religion or sex. **(3mks)**

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7. To whom can people complain if their rights are violated or denied? **(1mk)**

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

I) Dignity

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II) Promote

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III) Infringed

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IV) Violated

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V) Unique

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2. <u>ORAL POETRY</u> **20 MARKS**

Read the following oral poem and answer the questions that follow.

Ah, are you digging on my grave?

"Ah, are you digging on my grave,

My loved one? - planting rue?"

"No; yesterday 'he went to wed '

One of the brightest wealth has bred.

'It cannot hurt her now," he said,

"That I should not be true.

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"Then who is digging on my grave?

My nearest dearest kin?"

"Ah, no: they sit and think, 'what us!

What good will planting flowers produce?

No tendance of her mound can loose

Her spirit from Deaths gin;"

Questions

(a) (i) Giving reasons, classify the above oral poem **(3mks)**

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(ii) What is the oral poem about? **(3mks)**

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(iii) What does the singer mean in line three of the first stanza? **(4mks)**

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(iii) Identify and illustrate 3 features of style in the oral poem above **(6mks)**

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(iv) State and explain one social and one economic activity of the community from which this song is drawn **(4mks)**

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3. ORAL NARRATIVE **20 MARKS**

Read the passage below and then answer the questions that follow.

It is God who created men. And since God had pity, he said, I do not wish men to die altogether. I wish that men, having died, should rise again. And so he created men and placed them in another region. But he stayed at home.

And the God saw the chameleon and the weaver bird. After he had spent three days with the chameleon and the weaver-bird, he recognized that the weaver-bird was a great maker of words compounded of lies and truth. Now of lies there were many, but of the words of truth there were few. Then he watched the chameleon and recognized that he had great intelligence. He did not lie. His words were true. So he spoke to the chameleon. 'Chameleon, go into that region where I have placed the men I created, and tell them that when they have died, even if they are altogether dead, still they shall rise again-that each man shall rise again after he dies."

The chameleon said, "Yes, I will go there." But he went slowly, for it is his fashion to go slowly. The weaver-bird had stayed behind with God.

The chameleon travelled on, and when he had arrived at his destination, he said, I was told, I was told ... "

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But he did not say what he had been told.

The weaver-bird said to God, "I wish to step out for a moment." And God said to him "Go!"

But the weaver-bird, since he is a bird, flew **swiftly**, and arrived at the place where the chameleon was speaking to the people and saying, "I was told ...” Everyone was gathered there to listen.

When the weaver bird arrived, he said, "What was told to us? Truly, were told that men, when they are dead, shall **perish** like the roots of the aloe."

Then the chameleon exclaimed, but, we were told that when men are dead, they shall rise again."

Then the magpie **interposed** and said, "The first speech is the wise one."

And now all that people left and returned to their homes. This was the way it happened. And so men became old and die; they do not rise again.

a) Classify this story. Give a reason for your answer. **(3mks)**

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b) Describe the **two** traits of the Chameleon as brought out in the story. **(4mks)**

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c) Identify and illustrate any **three** features of oral narratives used in this story. **(6mks)**

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d) Identify **two** moral lessons we can learn from this story. **(2mks)**

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e) Describe **one** social activity of the community represented in this story**.** **(2mks)**

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f) Give the meaning of the following words as used in the story. **(3mks)**

i. Swiftly**……..**

ii. Perish**……..**

iii. Interposed**……..**

4. GRAMMAR **20MARKS**

a*. Choose the correct pronoun from the brackets to complete the following sentences.* **(3mks)**

i. Mr. Kamau and _____visited us last year. (He/him/himself)

ii. John offered Njoroge and _____some biscuits. (I/me)

iii. Do you think that he is wiser than _____. (I/me)

b. Fill in the blanks with correct word from the brackets **(5mks)**

(i) All the guests will be _____(dining/dinning) with the king tonight.

(ii) The people of Nasila shunned Emakererei's _____(prophecy/prophesy) about the success of the two girls.

(iii) Children should always listen to their parents' pieces of _____. (advice/advise)

(iv) They were forced to_____ the original documents of the car. (produce/produse)

(v) We had to start early so as to arrive in time for the_____.(occasion/ ocassion)

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c. Punctuate the following sentences appropriately **(4mks)**

(i) Certainly said Mayo I will see the manuscript next week

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(ii) Do you live in Kitale asked Alex

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(iii) Instead of any misunderstanding the teacher said consult the head boy

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(iv) Come out now the officer ordered

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d. *Fill in the blanks with the most appropriate preposition.* **(4mks)**

i. Give us details _____ your courses.

ii. The police wanted proof _____ their explanation.

iii. Her performance was amazing _____any standards.

iv. He was found guilty_____ felony.

e. Change the following sentences into the passive. **(4mks)**

i) The farmer had planted the beans.

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ii) The principal gave the education officer the forms.

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iii) We expect the strike to end soon.

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iv) The doctor gave him some drugs.

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PROGRESSIVE STUDENTS FORM TWO
END TERM 2 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN:……..… DATE: ……..

GEOGRAPHY 312
FORM 2
Time: 2 Hours

This paper consists two sections; A and B. Answer ALL Questions
SECTION A

1. a) Define the following terms;

(i) Geography **(2mks)**

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(ii) Habitat **(2mks)**

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

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c) List two areas studied under Practical Geography. **(2mks)**

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d) State two reasons for studying Geography in Kenyan Secondary Schools. **(2mks)**

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2. a) (i) What is meant by the term 'Solar System'? **(2mks)**

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(ii) Name two planets without satellites. **(2mks)**

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b) (i) Describe origin of the solar system according to the Passing Star Theory. **(4mks)**

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(ii) State two weaknesses of the Passing Star Theory. **(2mks)**

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3. a) (i) What do we call the shape of the earth? **(1mk)**

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(ii) Highlight the forces responsible for the earth's shape. **(3mks)**

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b) Explain three proofs that the earth is Spherical. **(6mks)**

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4. a) (i) Distinguish between Earth's Rotation and Earth's Revolution. **(2mks)**

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(ii) Give two Effects of Earth's Revolution? **(2mks)**

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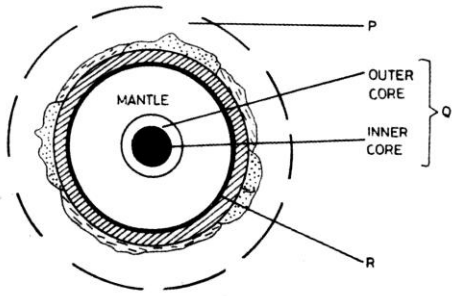
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b) What is the time at Kitale 35^0E when the time at Mogadishu 39^0E is 1pm. **(2mks)**

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5. a) The diagram below represents the structure of the earth. Use it to answer question (a)



(a) Name: (i) the parts marked P and Q **(2mks)**

_____ _____

(ii) the discontinuity marked R **(1mk)**

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(b) Outline two characteristics of the mantle. **(2mks)**

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(c) State three reasons why the interior of the earth is hot. **(3mks)**

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SECTION B

Answer all Questions in this Section.

6. The photograph below shows cattle rearing in an area in Kenya. Use it to answer the following questions;



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a) (i) Name the type of photograph shown above **(1mk)**

(ii) What economic activity is carried out on the area shown by the photograph? **(1mk)**

(iii) Give one reason for your answer in (i) above. **(1mk)**

(iv) Draw a rectangle measuring 12cm by 7cm to represent the area of the photograph.

On it sketch and label the main features shown on the photograph **(5mks)**

7. (a)(i) Distinguish between a mineral and a rock. **(2mks)**

(ii) Give three examples of energy mineral. **(3mks)**

(b)(i) Give the two types of extrusive igneous rocks. **(2mks)**

(ii) Describe how the following types of rocks are formed;

Chemically formed sedimentary rock. **(4mks)**

Dynamic metamorphic rock. **(3mks)**

Thermal metamorphic rock. **(3mks)**

(a) You intend to carry out field study on rocks around your school.

(i) Give two economic reasons for conducting such a field study. **(2mks)**

(ii) State two reasons for preferring direct observation to administering interview during the field study. **(2mks)**

(b) Give 2 physical importance of rocks. **(2mks)**

8.(a) What is a fold? **(2mks)**

(b) Describe plate tectonic theory. **(4mks)**

(c)(i) Name any two features that formed at the extensional boundary. **(2mks)**

(ii) Using well labelled diagrams describe the formation of Fold Mountain . **(9mks)**

(d)(i) Give the major fold ranges in the following countries in Africa; South Africa **(1mk)**

Morocco **(1mk)**

Ethiopia **(1mk)**

(ii) State any five effects of Fold Mountain to the environment. **(5mks)**

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PROGRESSIVE STUDENTS FORM TWO
END TERM 2 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN:……..… DATE: ……..

HISTORY AND GOVERNMENT (311)
FORM TWO (1)
Time: $2\frac{1}{2}$ ***Hours***

Instructions to Candidates
This paper consists of **THREE** sections **A ,B AND C**

Answer **ALL** QUESTIONS.

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

Candidates should answer the questions in English

SECTION A (25 MARKS)

ANSWER ALL THE QUESTIONS IN THIS SECTION.

1. State the relationship between History and Government. **(1mk)**

2. Identify two custodians of Oral traditions as a source of History and Government. **(2mks)**

3. Give two physical features of Aegyptopithecus/Egyptian Ape. **(2mks)**

4. Identify the technology that was used to make Sangoan tools during the Middle Stone Age. **(2mks)**

5. State two limitations of using caves as shelters by early human beings during the stone age period. **(2mks)**

6. State two ways in which agriculture spread to Agriculture. **(2mks)**

7. Give two methods of irrigation that were used in Mesopotamia. **(2mks)**

8. State two similarities between Early agriculture in Egypt and Mesopotamia. **(2mks)**

9. Identify two communities in Kenya that comprise of Eastern Cushites. **(2mks)**

10. Give the main economic activity of the Bantus. **(1mk)**

11. State two functions of warriors among Kenyan communities. **(2mks)**

12. Give two archaeological evidences of the Chinese presence at the coast of East Africa before 700AD. **(2mks)**

13. Identify the main reason for the growth of Kilwa as a coastal city state by the 19th century. **(1mk)**

14. State the main economic responsibility of a Kenyan Citizen. **(1mk)**

15. Apart from the National Anthem and National Flag, identify one symbol of National Unity in Kenya. **(1mk)**

SECTION B (45 MARKS)

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ANSWER ALL THE QUESTIONS FROM THIS SECTION.

16 a) Give three factors that contributed to the growth of trade between the Kenyan Coast and the outside world by the 16th Century. **(3mks)**

b) Explain six reasons that led to the decline of the Portuguese rule along the Kenyan Coast during the 17th Century. **(12mks)**

17 a) State three factors that favoured the development of local trade. **(3mks)**

b) Explain six factors that led to the decline of the Trans-Atlantic trade **(12mks)**

18 a) State three disadvantages of road transport **(3mks)**

b) Explain six ways in which rail transport promoted industrialization in Europe **(12mks)**

SECTION C (30 MARKS)

ANSWER THE TWO QUESTIONS IN THIS SECTION.

19 a) State three conditions under which one can be registered as a Kenyan citizen **(3mks)**

b) Explain six values/elements of good citizenship. **(12mks)**

20 a) State three advantages of use of Arbitration as a method of conflict resolution. **(3mks)**

b) Explain six factors that limit National unity in Kenya. **(12mks)**

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END TERM 2 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN:……..… DATE: ……..

TERM TWO EXAMINATIONS
441- HOME SCIENCE THEORY
FORM TWO
TIME – 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 sections **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	1-19	40	
B	20	20	
		20	
		20	
Total		100 marks	

SECTION A (40 Marks)

1. State **two** reasons why organic refuse should be properly disposed of. **(1mk)**

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2. Name **four** different brushes used in cleaning at home. **(2mks)**

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3. Outline **two** qualities of a good soak pit. **(2mks)**

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4. Outline the **three** categories of carbohydrates giving an example in each. **(3mks)**

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5. Give **two** dangers of living in a crowded unplanned residential area. **(2mks)**

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6. Identify **two** possible reasons why powder detergents are preferred to bar soaps when carrying out household washing. **(2mks)**

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7. Mention **two** possible causes of frequent outbreaks of cholera in the country. **(2mks)**

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8. Mention **two** desirable qualities of each of the following sewing tools: **(3mks)**

i.Tape measure

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ii.Dressmaker's pins

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iii.Tracing wheel

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9. Identify **three** advantages of washing clothes over dry cleaning clothes. **(2mks)**

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10. List **four** possible methods of cooking meat. **(2mks)**

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11. Suggest **three** reasons why public toilets should be kept clean. **(3mks)**

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12. Mention **two** reasons for ironing clothes. **(2mks)**

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13. State **two** advantages of using boiling as a method of cooking. **(1mk)**

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14. Identify **two** benefits of learning about nutrients in Home Science. **(2mks)**

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15. List **two** types of ceramics found in the market. **(1mks)**

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16. Distinguish between rickets and osteomalacia. **(2mks)**

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17. Differentiate between sponging and spotting. **(2mks)**

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18. Highlight **three** situations where one needs to take more water. **(3mks)**

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19. Suggest two reasons why bilharzia is common in rice growing areas in Kenya. **(2mks)**

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SECTION B (20 Marks)

(Compulsory)

Answer all sections of this question in the spaces provided.

20. Your brother has come home suffering from a stomach ailment from school for his mid-term break.

a) Outline to your mother how to launder your brother's white cotton bed sheets that he has poured fruit juice on. **(10mks)**

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b) Describe how you will thoroughly clean his bedroom. **(10mks)**

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SECTION C (40 MARKS)

Answer any two questions from this section in the space provided after question 23.

21.

a) Mention **four** reasons why sisal is not a good choice for a clothes line. **(4mks)**

b) Outline **five** qualities of a good charcoal iron. **(5mks)**

c) Discuss **three** advantages of using an ironing board instead of a table. **(6mks)**

d) Suggest **five** reasons for laundering clothes. **(5mks)**

22.

a) Discuss **four** reasons for including vegetables in the diet of children. **(8mks)**

b) Highlight **six** benefits of water in the body. **(6mks)**

c) State and explain **four** disadvantages of deep-fried foods. **(4mks)**

d) Identify **four** nutrients found in maize. **(2mks)**

23.

a) Suggest **four** ways lack of education contributes to malnutrition. **(4mks)**

b) Highlight **five** reasons wool is not suitable for making school skirts/trousers. **(5mks)**

c) Outline **six** benefits of banning the use of polythene bags in Kenya. **(6mks)**

d) Identify and briefly explain **five** groups of people prone to marasmus. **(5mks)**

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PROGRESSIVE STUDENTS FORM TWO

END TERM 2 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN:……..… DATE: ……..

ISLAMIC RELIGIOUS EDUCATION
FORM TWO (2)
Time: 2½ Hours

Instructions

Answer all the questions

1. a. Discuss the reasons why Qur'an was not compiled during the time of the prophet **(7mks)**
b. Explain the four modes of wahyi. **(4mks)**
c. List the teaching of the last two verses of Suratul Baqarah. **(6mks)**

2. a. Define the following components of Hadith
1. Isnad
2. Matn **(2mks)**
b. What are the factors that made the Tabi-Tabiin period to be the Golden Age of Hadith collection **(5mks)**

3. a. Explain the types of hajj**.** **(6mks)**
b. How does Zakat promote national development. **(7mks)**

4. a. Explain the forms of polytheism **(6mks)**
b. Discuss the significance of believe in Qiyama. **(6mks)**

5. a. Mention any five positive aspects of akhlaq **(5mks)**
b. What is significance of Amr bil maaruf wa nahyi anil Munkar **(6mks)**

6. a. Discuss the rationale behind prophet's marriages **(8mks)**
b. Explain the types of divorce. **(8mks)**

7. a. Outline the terms of the first covenant of al Aqaba. **(4mks)**
b. What are the immediate problems the Muslims faced upon hijrah to Madinah **(4mks)**
c. Mention any four human rights found in the Madinah constitution **(4mks)**
d. Explain the importance of the treaty of Hudhaibiyah **(6mks)**

8. List any remarkable contributions of sheikh Swaleh al Farsy **(6mks)**

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PROGRESSIVE STUDENTS FORM TWO

END TERM 2 SERIES ONE EXAMS

JINA: …….

SHULE: …….

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

MUHULA WA PILI

KISWAHILI

KIDATO CHA PILI (2)

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. Karatasi hii ina kurasa 10 zilizopigwa chapa

5. Watahiniwa lazima wahakikishe kuwa kurasa zote za karatasi hii zimepigwa chapa sawasawa na kuwa maswali yote yamo.

Kwa matumizi ya mtahini pekee

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

SEHEMU A: UFAHAMU (ALAMA 15)

Soma makala yafuatayo kisha ujibu maswaliyanayofuata.

Katika falme ya Pate ya enzi za kale, kulikuwa na binti Sultani aliyeitwa Mwanakishwira. Alipotimu umri wa miaka kumi na minne tu, Mwanakishwira alikuwa tayari mrefu na mkubwa, na alionekana kuwa msichana mzima mwenye umri wa miaka kumi na minane. Alikuwa nadhifu na mzuri sana wa sura, kiasi cha kubandikwa lakabu ya malaika.

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Alipendeza sana macho fauka ya kuwa alikuwa na akili nyingi mno. Katika umri huo, alikuwa amemaliza masomo yake yote katika madrasa iliyokuwa hapo, na aliweza kuikariri Kurani yote bila kigezigezi. Babake, Mfalme, aliuma vidole **akilia ngoa** kuwa mtoto mwenye akili hiyo ni mke wala si mume. Aliwaza ya kuwa kama angekuwa mvulana, angempeleka zutafindaki ya Al-zhar huko Misri kuendelea na masomo ya juu katika chuo hicho kisifika.

Wakati Mfalme akiuma vidole kuhusu jinsia ya mtoto wake, wanaume wengi hapo mjini walikuwa wakimeza mate. Mtu aliyemezewa mate alikuwa ni yeye huyo Mwanakishwira. Walimmezea mate kwa sababu kila mmoja wao alitaka kumwoa awe mkewe. Kumwoa Mwanakishwira kulikuwa na manufaa ya kupata mke mwenye **uzuri wa shani**, kama nyota, na aidha kuwa Mfalme baada ya mweye kukikalia kuaga dunia, sababu yeye hakuwa na mrithi mwingine.

Basi ikawa ni kila mtu kujipendekeza kwa mfalme, kwa vile alikuwa anasumbuliwa sana, na wakati huo huo aliogopa kuwa asipomwoza mapema binti yake huenda akaharibika, akaamua kuruhusu wachumba wamchumbie.Uamuzi huu ulimshtua sana Mwanakishwira, mshtuko alioupata ulimtia ugonjwa na kumdhoofisha kabisa. Akadhoofika hadi Mfalme akaingiwa na hofu kuwa mtoto wake angekufa. Akaamua kumwuliza kilichokuwa kikimdhoofisha. Mwanakishwira akasema kimdhoofishacho ni mwezi. Akipata mwezi, na nafuu pia ataipata. Kusikia hivyo, Mfalme akatokwa na kijasho chembamba. Akafikiria kwamba labda mtoto wake amemalizwa kabisa na uwele, na sasa yuaweweseka tu, wala hana akili razini ya kutambua na kupanga mambo.

Hata hivyo hakuvunjika moyo kabisa. Akaamua kupata tafsiri ya kitendawili hicho kutoka kwa waheshimiwa wake hapo mjini ambao wote walitaka kumwoa Mwanakishwira. Kwanza akamwendea Waziri Mkuu akamwuliza tafsiri ya mwezi autakao binti yake. Waziri akasema mwezi utakikanao ni wa dhahabu. Alipoambiwa hivyo mtoto akazidi kudhoofika. Mfalme akakasirika sana. Akawaendea wakwasi wengine kama vile Kadhi, Mnajimu na kadhalika. Hawa wote wakamzidisha ugonjwa binti Mfalme kwa sababu jawabu walizotoa ni kuwa mgonjwa alihitaji mwezi wa almasi, fedha, na hata hatua!

Mwisho kabisa, Mfalme akamwendea mvulana aliyekuwa mchungaji. Huyu **akamwaidhi** Mfalme kwamba aulizwe mgonjwa aseme mwenyewe aina ya mwezi autakao. Jawabu hili halikumfurahisha Mfalme, japo alienda kamwuliza binti yake, kama alivyoambiwa. Alipoulizwa, Mwanakishwira akasema mwezi autakao ni kishaufu kilicho na umbo la mwezi mchanga kilichotengenezwa kwa chuma. Mfalme alishangaa sana. Hata hivyo akamfulia kishaufu alichokitaka mgonjwa. Alipokivaa, Mwanakishwira akapata nafuu mara moja na akaendelea na nafuu hiyo hadi akapona kabisa.

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Kuona hivyo, Mfalme akawateremsha vyeo wakwasi wote humo mjini, na kuteua wengine mahali pao. Kwa upande mwingine, mchungaji akaozwa binti Mfalme na kupewa madaraka ya Waziri Mkuu. Hatimaye, Mfalme alipoaga dunia, mchungaji akawa Mfalme, na Mwanakishwira akawa Malkia.

Maswali

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

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b) Tambua sifa tatu za Mwanakishwira. **(alm3)**

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c) Mwanamke alichukuliwaje katika mfumo wa elimu wa ufalme ya pate ya enzi hiyo. **(alm1)**

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d) Kwa nini Mfalme aliwauliza wakwasi kwanza tafsiri ya kitendawili? **(alm2)**

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e) Kwa nini mfalme alishangazwa najawabu la binti yake? **(alm2)**

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f) "Akili ni nywele, kila mtu ana zake." Dhihirisha jinsi methali hii inavyobainika katika hadithi hii. **(alm2)**

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g) Kwa maoni yako, mbona Mwanakishwira alikubali kuolewa na mwanamume huyo? **(alm1)**

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h) Eleza maana ya msamiati ufuatao kama ulivyotumiwa katika kifungu hiki. (alama 3)

i) akilia ngoa.

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ii)uzuri wa shani

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iv) akamwaidhi

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SEHEMU B: UFUPISHO(ALAMA 15)

Soma makala yufuatayo kisha ujibu maswali

Raha ni kitu gani? Je ni kitu kizuri au kibaya ? Mbona kila mtu hupigania na kama ionekanavyo, kila aionjaye hatimaye humwunguza? Au pengine wako wengine wasioungua? Hebu basi tuzingatie wale wasemekanao huitafuta sana raha na penginepo wakafanikiwa kuipata.

Chukua mfano wa msichana na mvulana wapendanao. Hawa wawili wanapopendana, lengo lao huwa ni kuoana na wakishaoana, waishi raha mustarehe milele. Hata hivyo, jambo la kwanza ni kwamba hata kabla hawajaoana, wanadhikika na kudhikishana kwa kutaka sana kuaminiana lakini kwa vile ni binadamu, wanatiliana shaka akila wanapokuwa mbali mbali. Watu hawa hulaumiana lakini kwa vile ni binadamu, wanatiliana shaka kila wanapokuwa mbali mbali. Watu hawa hulaumiana si mara haba wakati wakiwa wapenzi. Mara kadha wa kadha husameheana na kuendelea na mapenzi. Baadaye wakiwa na bahati huoana.

Mara tu wanapooana hugundua kuwa huko kuishi raha mustarehe ilikuwa ni ndoto tu ya ujana iliyotengana kabisa na uhalisia. Uhalisia unapowabainikia huwa ni kuendelea na huko kudhikishana, kutoridhishana, kutiliana shaka, kuombana msamaha na kuendelea tu.

Ama tumwangalie mwanasiasa. Huyu anapigania usiku na mchana ili awe mjumbe. Mwisho anachaguliwa lakini afikapo bunge, anakuta hakuna anayemtambua kama Bwana mkubwa. Inambainikia kwamba ubwana-mkubwa hautegemei kuchaguliwa tu bali unategemea mambo mengine pia, kama vile pesa nyingi magari makubwa

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makubwa, sauti katika jamii na wadhamini wanaotambulikana. Ralia kwa mwanasiasa huyu inakuwa mithili ya mazigazi tu, "maji" uyaonayo kwa mbali wakati una kiu kali sana, kumbe si maji bali ni mmemetuko wa jua tu.

Mwingine na kupigiwa mfano ni msomi. Huyu huanza bidii yake akiwa mdogo sana. Lengo lake huwa ni atambuliwe kote kwa uhodari wake katika uwanja wa elimu. Basi mtu huyu husoma mpaka akaifikia daraja ya juu kabisa yausomaji. Akapata shahada tatu : ya ukapera,ya uzamili na ya uzamifu. Akajiona yu peoni mwa ulimwengu. Akatafuta kazi akapata. Kisha akagundua kwamba watu hawakijali sana kisomo chake. Wakamwona ni kama mwehu tu. Fauka ya hayo wakamlaumu kwa kupoteza muda wake mwingi kupekuapekua vitabu wakamfananisha na mtu mvivu.

Mwisho tuangalie mfano wa mwanamuziki. Huyu analaghaika na wazo la kwamba sauti yake ikiwaongoa watu, atapendwa sana na wengi na kuwazuzua wengi kama mbalarnwezi au kuwaongoza kama nyota. Mtu huyu anapofikia kilele cha malengo yake, hata husahau kama ni binadamu wa kawaida, akawa anai shi katika muktadha wa watu kuzirai kwa sababu ya akili kujawa pomoni na upungaji wake. Watu hutamani hata kumgusa tu. Hata hivyo, mtu huyu huishia kujisikia mkiwa pale wakati unapowadia wa kupumzika. Je, raha yote huwa imekimbilia wapi?

(a)"Mapenzi ni kuvumiliana". Kwa maneno yako mwenyewe, eleza jinsi msemo huu ulivyo muhtasari mwafaka wa aya ya pili na ya tatu ya habari hii (Maneno 30-35) (alama 5 , 1 ya utiririko)

Matayarisho:

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Jibu

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(b) Kwa muhtasari, raha ni "asali chungu" Fafanua dai hili huku ukirejele mwanasiasa, msomi na mwanamuziki (Maneno 45-55) (alama 8, 1 ya utiririko)

matayarisho

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SEHEMU YA C: MATUMIZI YA LUGHA **(ALAMA 40)**

a. Andika sauti mbili mwambatano zinazotamkiwa kwenye ufizi. **(alm1)**

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b. Andika neno linaloundwa kwa sauti zenye sifa zifuatazo. kitambaza, irabu ya chini kati, irabu ya nyuma juu.

(alm1)

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c. Onyesha mizizi ya vitenzi vifaatavyo: **(alm1)**

Walikuja

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Alipewa

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d. Eleza matumizi ya viambishi vilivyopigwa mistari. **(alm2)**

Kuongea kwake kulimfanya a**ji**okoe.

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e. Tunga sentensi moja ukitumia kivumishi kiradidi cha karibu katika ngeli ya LI – YA umoja. **(alm2)**

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f. Kanusha katika wingi: **(alm1)**

Umesoma na ukaelewa.

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g. Andika kinyume cha sentensi ifuatayo: **(alm2)**

Ng'ombe alilala nje ya zizi.

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h. Tunga sentensi ukitumia neno ‘mpaka’ kama : **(alm2)**

i) Nomino

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ii) Kihusishi

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i. Tumia kitenzi chenye asili ya kigeni kutungia sentensi katika wakati ujao: **(alm1)**

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j. Eleza tofauti kati ya kiarifu na kiima. **(alm1)**

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k. Akifisha kifungu hiki kwa kutumia mabano na viakifishi vingine. **(alm1)**

Wanyama hawa ndovu, tembo na ngawa wanyama wa pori wote hupatikana mbugani

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l. Tunga sentensi moja kuonyesha maana mbili za nomino **kaa**. **(alm2)**

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m. Andika aina tatu za sentensi kwa kuzingatia majukumu. **(alm3)**

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n. Changanua mofimu katika tungo:

Tutalima. **(alm2)**

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o. Tunga sentensi moja moja kutofautisha kati ya matumizi ya: **(alm2)**

i) enye ……

ii) enyewe ……

p. Geuza kwa umoja. (alama 2)

Mishale yao ilifungwa kwa manyoya meusi.

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q. Tambua virai vilivyopigiwa mistari: <u>Mama mzee</u> alikuwa <u>chini ya mti</u>. **(alm2)**

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r. Changanua sentensi hii kwa kielelezo cha mishale. **(alm4)**

Kitabu kizuri sana kimesomwa leo.

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s. Mamake alikuwa mkali. Yeye alikuwa mwanajeshi. Unganisha. **(alm2)**

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t. Andika kwa usemi wa taarifa. **(alm2)**

"Sitaki na sitataka mtoto mkaidi kama wewe." Mzazi alisema.

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u. Sikukula kabla ya kumkamua ng'ombe. Sahihisha. **(alm1)**

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v. Ngeli ya mahali ina viambishi vitatu. Vitaje na ueleze matumizi yavyo: **(alm3)**

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SEHEMU D: ISIMU JAMII (ALAMA 10)

‘‘ Mhubiri Ashtumiwa Kwa Kuwapotosha Waumini’’

Mhubiri mmoja mjini Changarawe ameshtumiwa vikali kwa kuwapotosha waumini katika kanisa lake kwa kuwapa mafunzo yenye utata...

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

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b) Fafanua sifa nane ambazo hupatikana katika sajili hii. **(alm8)**

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PROGRESSIVE STUDENTS FORM TWO

END TERM 2 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN:……..… DATE: ……..

END TERM EXAMINATIONS

MATHEMATICS ALT. A

FORM 2

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	22	23	24	Total		
									Grand Total	

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SECTION I (50 MARKS): ANSWER ALL QUESTIONS

1. Evaluate $\frac{16\div-4+18\times6-3\times8}{48\div6\times2}$ **(3mks)**

2. The volumes of two similar cylinders are $4096cm^3$ and $1331cm^3$. If the area of the curved surface of the smaller one is $352cm^2$, find the curved surface area of the larger one. **(3mks)**

3. John exchanged ksh.600, 000 to sterling pounds after settling bills worth £1200, he changed the balance to Euros. He then purchased goods worth 200 Euros .Using the exchange rates below calculate his balance in Kenyan shillings. (4marks)

	Buying (Ksh)	Selling (Ksh)
1 sterling pound	114.20	114.50
1 Euro	101.20	101.30

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4. The interior angle of a regular polygon is 90^0 more than its exterior angle. Find the number of sides of the polygon. **(3mks)**

5. John, James and peter shared the profit from their business in the ratio 3:7:9 respectively. If James received Ksh. 63,000, how much profit did the business make. **(3mks)**

6. Solve the simultaneous equation by elimination method

$y + x = 7$

$3x + y = 15$ **(3mks)**

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7. Evaluate $\frac{\text{½ of } 3\text{ ½} + 1\text{½}\,(\,2\text{½} - 2/3)}{\text{¾ of } 2\text{½} \div \text{½}}$ **(3mks)**

8. Calculate the area of a triangle whose sides are 8cm by 12cm by 10cm**.** **(3mks)**

9. Find the equation of the straight line passing through points A (3,9) and B (7,5) in the form $y = mx + c$.

(3mks)

10. Evaluate using logarithm tables

$\sqrt[3]{\frac{34.5 \times 0.00697}{(0.534)^2}}$ **(4mks)**

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11. The area of a square is $50cm^{2.}$ Calculate the length of its diagonal. **(3mks)**

12. Evaluate without using tables or calculators

$$\frac{0.036 \times 0.0049}{0.07 \times 0.048}$$ **(3mks)**

13. Given that $p = 4$, $q = 3$ and $S = 5$, find the value of **(3mks)**

$$\frac{p+q^2 - S}{S}$$

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14. The lessons in two adjacent primary and secondary school lasts for 35 minutes and 40 minutes respectively. If the bells for the starting of lessons ring simultaneously at 8:00am, when will they next ring together assuming there are no breaks. **(3mks)**

15. The sum of two numbers is 25. The difference between the two numbers is 7. Find the numbers **(3mks)**

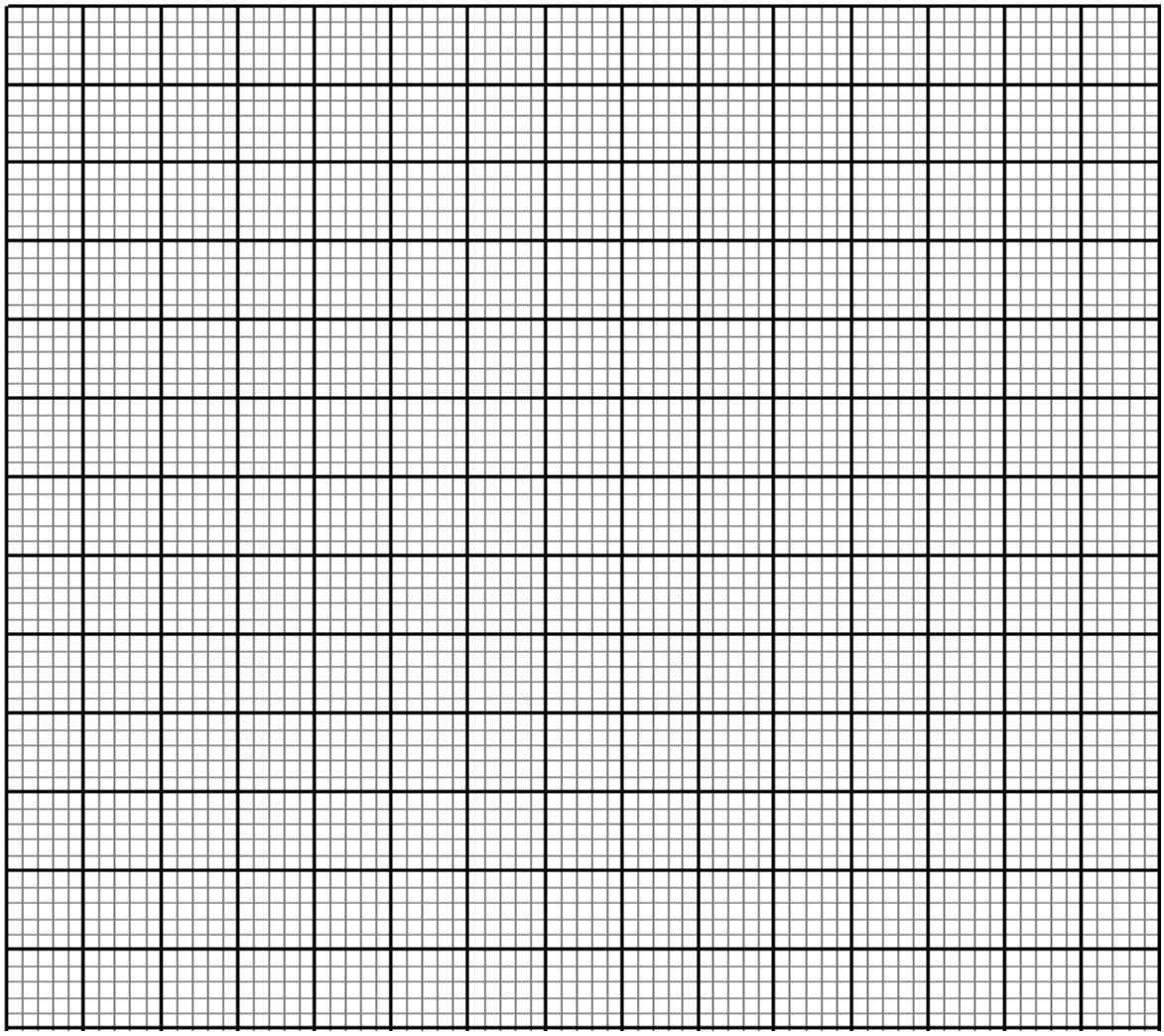
16. Given that $\sin(90 - \theta)^0 = 0.8$ where θ is an acute angle, find without using mathematical tables. find the value of $\tan^2\theta$ **(3mks)**

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SECTION II (50 MARKS): ANSWER FIVE QUESTIONS ONLY

17. A triangle has vertices A (-5,-2), B (-3,-2) and C (-5,-5).The triangle is rotated about the origin through +90 to give A', B 'C'.

(A) Draw the triangles ABC and A'B'C' and give the coordinates of A'B'C. **(4mks)**



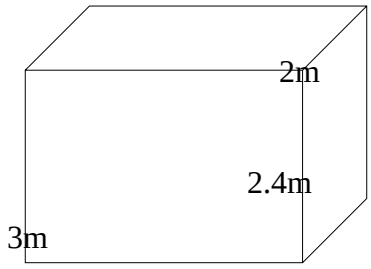
(B) Draw the image A''B'' C'' of A'B'C' under a reflection in the line X = 0 and write down the coordinate of A'' B'' C'' **(3mks)**

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(C) A''' B''' C''' is the image of A'' B'' C'' under reflection in the line y = x .Draw the triangle A''' B''' C''' and write down the coordinates**.** **(3mks)**

18. The figure below shows a water tank in the shape of a cuboid (internal dimensions)

(a)



(a) Calculate its capacity in liters**.** **(3mks)**

(b) The sides of the tank and the floor are to be fitted with square tiles of 20cm. Calculate the number of tiles to be used (thickness of tile negligible**)** **(5mks)**

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(c) If the price of a tile is ksh.40.calculate the cost of purchasing the tiles. **(2mks)**

19. (a) Using a ruler and a pair of compass only, construct triangle ABC in which

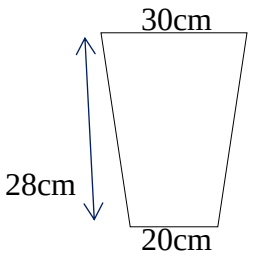
$AB = 9cm, BC = 8cm \text{ and } < BAC = 60°$ **(4mks)**

(b) Construct a circle which passes through the vertices A,B and **C** **(3mks)**

(C) Measure the radius of the circle hence calculate its area . **(3mks)**

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20. The diagram below shows a bucket with top diameter of the bucket is 28cm.



(a)Calculate the amount of water it can hold when full in litres**.** **(5mks)**

(b)Calculate the area in contact with water when full. **(5mks)**

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21. a) Fill the table below for the equations: $4y + 3x = 18$ and $2x - y = 1$

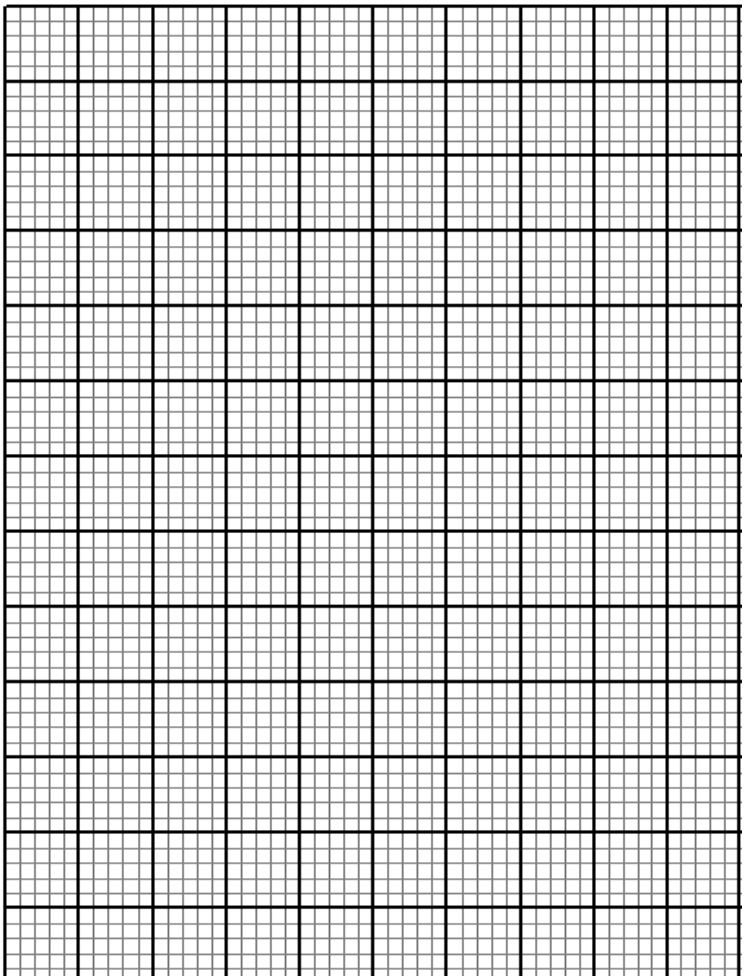
$4y + 3x = 18$ **(1mk)**

X	-2	-1	0	1	2
Y	6		4.5		

$2x - y = 1$ **(1mk)**

X	-2	-1	0	1	2
Y	-5		-1	1	

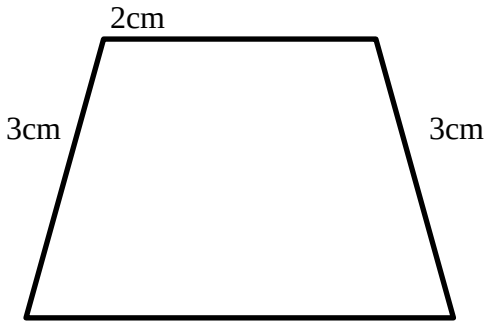
b) On the graph provided draw the graphs of the lines $4y + 3x = 18$ and $y = 2x - 1$ on the same axis. **(5mks)**



c) From the graph state the point of intersection of the two lines hence give the simultaneous solution of the equations $4y + 3x = 18$ and $2x - y = 1$ **(3mks)**

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22. The diagram below represents the cross section of a solid prism of length 8cm



a) Calculate the volume of the prism **(3mks)**

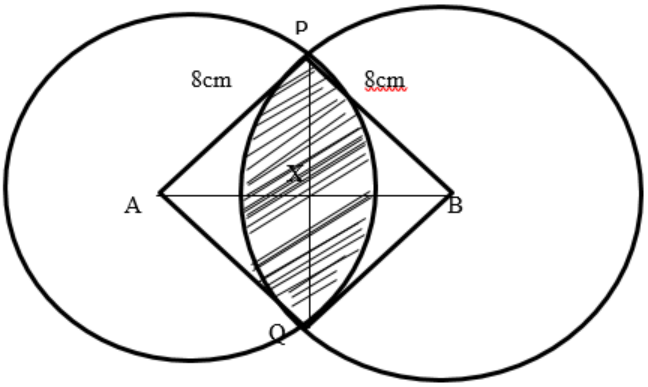
b) Given that line the density of the prism is 5.75 g /$_{cm3}$ Calculate it mass in Kg. **(3mks)**

c) A second prism it similar to the above but made of different materials. The volume of the second prism is $246.24cm^3$.

Calculate the cross sectional area of the second. **(4mks)**

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23 Two circle with centres A and B and radius 8cm intersect at point P and Q



Given that the distance between A and B is 12cm and the line PQ and AB meet at x. find correct to four significance figures

a) The length of PQ **(2mks)**

b) The area of the shaded region **(6mks)**

c) The reflex angle PAQ **(2mks)**

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24 a) A line L1 passes through point A (7,2) and B (5,4) find the equation of L1 in the form $ax + by = c$ **(3mks)**

b) Another line L2 is a perpendicular bisector of L1 find the equation of L2 in the form $y = mx + c$ I **(4mks)**

c) A third line L3 is parallel to L2 and passes through $(-2,3)$ find the equation of L3 **(3mks)**

THIS IS THE LAST PAGE PRINTED

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PROGRESSIVE STUDENTS FORM TWO

END TERM 2 SERIES ONE EXAMS

NAME: ……

SHOOOL: ……

ADM NO: ……. SIGN:……..… DATE: ……..

PHYSICS (232)

FORM TWO (2)

Time - 2 Hours

Instructions

- 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.
- This paper consists of **12** printed pages.
- 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 – 12	25	
	13	10	
	14	10	
	15	11	
	16	14	
	17	10	
TOTAL SCORE		**80**	

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SECTION A (25 MARKS)

1. Two metallic spheres **A, B** stand in contact as shown. A positively charged rod is held near sphere **A**.



Figure 1

a. Show the charge on each sphere when the metallic balls are separated and the rod is removed. **(2Mks)**

b. Why are the balls supported on insulated stands? **(1Mk)**

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2. A density bottle has a mass of **45g** when full of paraffin and a mass of **50g** when full of water if the empty bottle weighs **25g**, calculate the density of paraffin. **(2Mks)**

3. State the reason why thermal conductivity of a metal increases with the increase in the cross-section area of the conductor? **(1mk)**

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4. Describe how you would charge a gold leaf electroscope **negatively** by induction method. **(3mks)**

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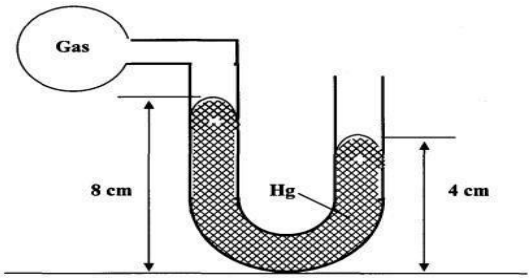
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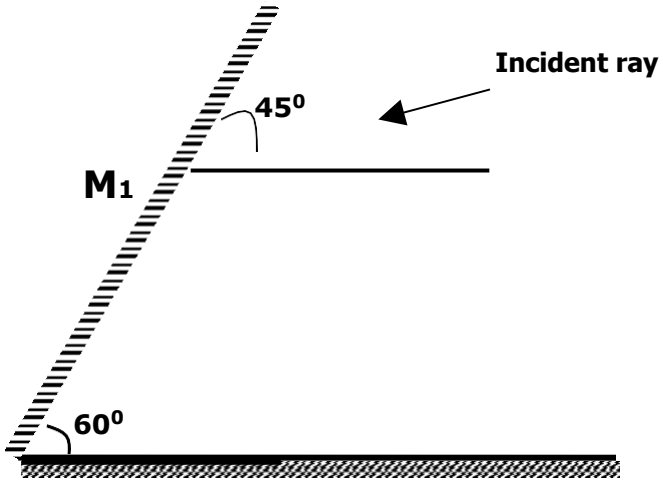
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5. An airtight flask containing a gas is connected to a mercury manometer. The levels of mercury in the two limbs of the manometer are as shown in the diagram below.



Calculate the pressure of the gas (Density of mercury = 1.36 x 10^4 kg/m^3 and atmospheric pressure = 1.0 x10^5 N/m^2**)** **(3mks)**

6. Figure below shows a ray of light incident on a mirror at an angle of **45º**. Another mirror is placed at an angle of **60º** to the first one as shown.



M2

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Calculate the number of images formed when an object is placed between the two mirrors. **(2mks)**

7. A highly inflated balloon bursts when transferred to a hotter environment. Explain this observation using kinetic theory of gases. **(2mks)**

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8. In a ball and ring experiment, the ball goes through the rings at room temperature. When it is heated it does not go through the ring, but when left on the ring for some time, it goes through. Explain this observation. **(2mks)**

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9. A piece of metal weighs 3N in air and 2N when totally immersed in water.

i. Identify the force responsible for the difference in weight of the metal**.** **(1mk)**

ii. Determine the value of the force in (i) above**.** **(2mks)**

10. Explain how a person is able to drink a soda using a drinking straw. (2 marks)

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11. Give a reason why air is not commonly used as the fluid in a hydraulic lift. (1mark)

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12. State **one** assumption made when estimating the size of an oil molecule in the oil drop experiment. **(1mk)**

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SECTION B (55 MARKS)

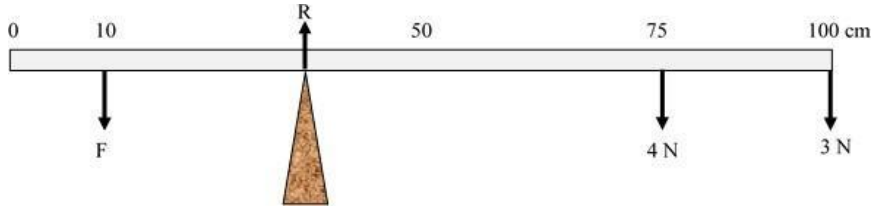
13. (a) State the law of moment **(1mk)**

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(b) The figure 4 below shows a uniform metre rule of mass 200g balanced at 40 cm mark by a number of forces. Calculate,



(i) The force F **(3mks)**

(ii) the reaction at R **(2mks)**

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(c) A spherical ball bearing of mass 0.0024kg is held between the anvil and spindle of a micrometer screw gauge. Use this information and the position of the scale in the figure 5 below to answer the questions (a) and (b) below:

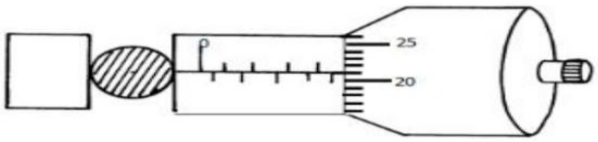


Figure 5

I. What is the diameter of the ball bearing? **(1mk)**

……

……

……

II. Find the density of the ball bearing correct to 3 significant figures. **(3mks)**

14. In an experiment to estimate the diameter of an oil molecule, an oil drop of diameter **0.05 cm** spread over a circular patch whose diameter is **20cm**

Determine:

(i) The volume of the oil drop. **(2Mks)**

(ii) The area of the patch covered by the oil **(2Mks)**

(iii)The thickness of the oil molecule. **(3Mks)**

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(iv) State the importance of lycopodium powder in the above experiment**.** **(1Mk)**

……

……

……

(v) State two possible sources or errors in this experiment. **(2Mks)**

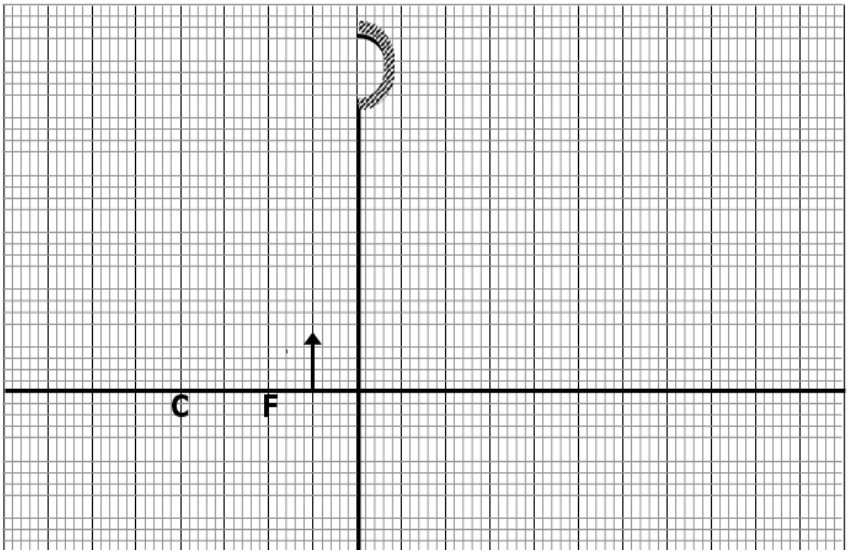
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15. A concave mirror with a focal length of 8cm forms on upright image 15 cm from the mirror. If the object is 5 cm tall, calculate;



(i) The distance of the object from the mirror **(3mks)**

……

……

……

……

……

(ii) Magnification. **(2mks)**

……

……

……

……

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(iii) Image height **(2mks)**

……

……

……

……

(iv) The figure 6 below shows an object placed 10cm in front of a concave mirror whose radius of curvature is 40cm.On the same figure, draw a ray diagram to show the position of the image formed. **[3Mks]**

(v) Give a reason why convex mirror is preferred to plane mirror for use in supermarkets. **(1mk)**

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16. a) Define magnetic field**.** **(1mk)**

……

……

b) The graph in the figure 7 below was obtained from an experiment.

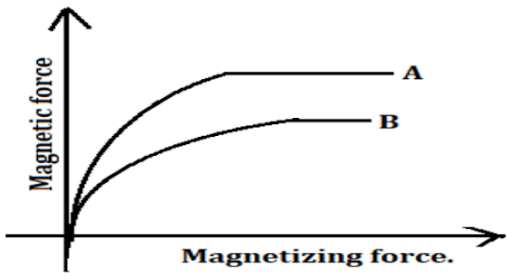


Figure 7

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i) Which material is easy to magnetize. **(1mk)**

……

……

ii) Using domain theory explain your answer (i) above. **(2mks)**

……

……

……

……

……

iii) State one application of hard magnetic materials. **(1mk)**

……

……

……

c) State two methods of magnetization**.** **(2mks)**

……

……

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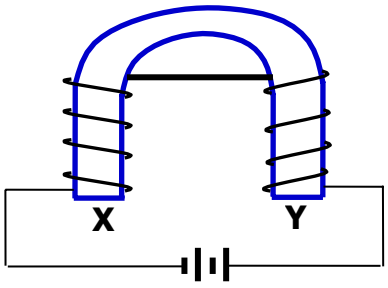
d) Why is repulsion the surest way of identifying a magnet**?** **(2mks)**

……

……

……

……



e) Figure 8 shows a magnetic material being magnetized

Identify the polarities of X and Y **(2Mks)**

X: ……

Y: ……

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f) Suggest three ways that can be done to make the electromagnet stronger**.** **(3Mks)**

……

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17. a) Fig. 8 shows a cylindrical can filled with a liquid of density 0.8 gcm^{-3}. A hole of diameter 2.0 cm is drilled at a depth of 2.8 m from the top of the can.

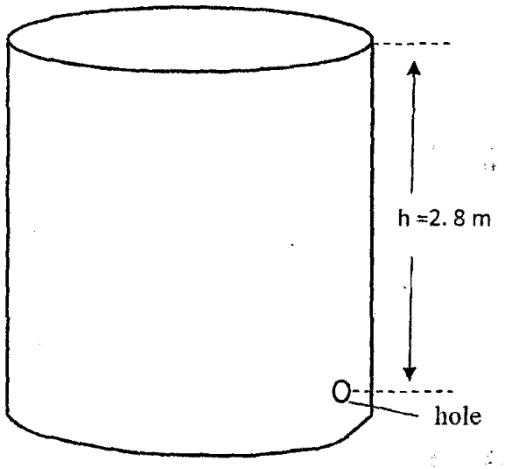


Fig. 8

Determine:

i. The cross-sectional area of the hole. **(2mks)**

……

……

……

ii. The maximum pressure exerted by the liquid at the hole. **(2mks)**

……

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iii. The maximum force exerted on a jet of liquid through the hole. **(2mks)**

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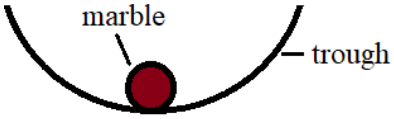
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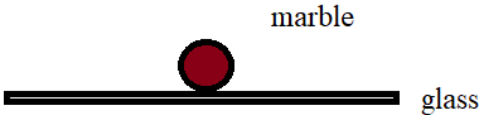
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b) Name the states of equilibrium in the following diagrams. **(2mks)**





(i) …….. **(ii)** ……

c) State two ways to increase the stability of a body. **(2mks)**

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#END#

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