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# FORM 2 REFLECTOR END TERM 2 EXAMS

Prefer Calling Sir Obiero Amos @ 0706 851 439 for Marking Schemes

**Subjects Tested:** 1. AGRIC 2.BIO 3.BST 4.CHEM 5. COMP 6.CRE 7.ENG 8.GEOG 9.HIST 10.H-SCI 11.KISW 12.MATHS & 13. PHY **Respectively.**

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## Details Inscribed in each. Delivered Via Telegram.

## WhatsApp/Sms/Call Sir Obiero Amos

# 0706 851 439



**NAME: ……**

**SCHOOL: ……**

**ADM NO: …… DATE: …… SIGN: ……**

# FORM 2 END TERM 2 REFLECTOR EXAMS

**FORM 2 AGRICULTURE**

**TIME: 2HRS**

## INSTRUCTIONS TO ALL CANDIDATES:

*A. Write your name and admission number in the spaces provided.*
*B. This paper consists of section A, B and C.*
*C. Answer all questions in section A, B and C in the spaces provided.*

*FOR EXAMINERS USE ONLY*

| SECTION | QUESTIONS | MAXIMUM SCORE | CANDIDATE SCORE |
|---|---|---|---|
| A | 1-19 | 60 | |
| B | 20-23 | 20 | |
| C | 24-25 | 20 | |
| | TOTAL | 100 | |


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**SECTION A (60MKS) ANSWER ALL QUESTIONS IN THE SPACES PROVIDED**

1. Give two sub- branches of arable farming.(2mks)

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2. Give biotic factors that influence agriculture.(4mks)

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3. Give four reasons why land should be prepared early in readiness for planting.(4mks)

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4. Give two circumstances that may necessitate irrigation.(2mks)

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5. Give two characteristics of fresh market tomatoes.(2mks)

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6. State three characteristics of plants that are used for green manure. (3mks)

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7. Outline three methods of breaking seed dormancy.(3mks)

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8. List three advantages of raising seedlings using polythene sleeves.(3mks)

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9. State the difference between large white and landrace breeds of pigs.(2mks)

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10. Give four importance of keeping livestock healthy.(4mks)

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11. List four ways of applying fertilizers in crop production(4mks)

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12. Name two types of inventory records.(2mks)

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13. Give four advantages of crop rotation.(4mks)

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14. State four disadvantages of organic mulch.(4mks)

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15. Give four reasons for pruning coffee.(4mks)

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16. State four deficiency symptoms that would be seen in crop lacking potassium.(4mks)

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17. Outline four advantages of mixed farming.(4mks)

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18. Highlight three reasons for keeping health records.(3mks)

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19. Name two major physical differences between dromedary and bactrian breeds of camel.(2mks)

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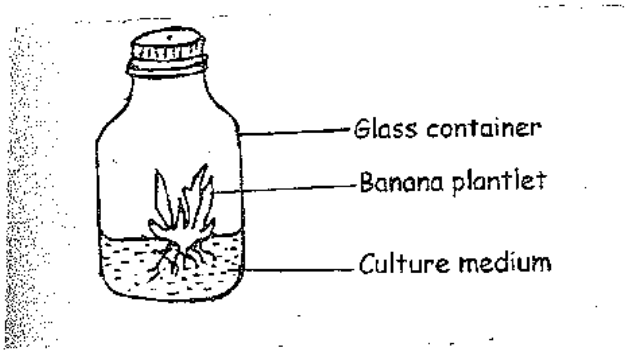
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## SECTION B (20MKS) ANSWER ALL QUESTIONS IN THE SPACES PROVIDED.

20. The illustration below shows a vegetative material used in propagation of bananas.




a) Identify the above material. (1mk)

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b) Name two essential substances provided by the culture medium. (2mks)

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c) Other than culture medium, name two other conditions required to promote development of roots and shoots in the banana plantlets. (2mks)

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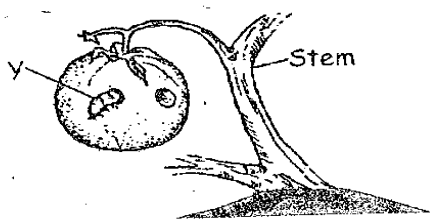
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21. The diagram below represents a tomato pest.




a) Identify the pest labeled Y above. (1mk)

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b) What is the effect of the above pest on the plant. (1mk)

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c) How can the pest above be controlled. (1mk)

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d) Apart from the above pest, name two other pests of tomatoes. (2mks)

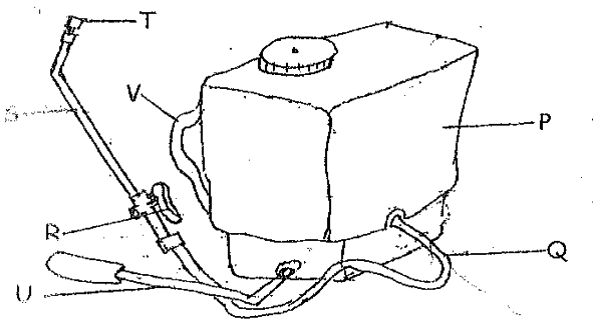
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22. Below is a diagram of farm equipment. Study it carefully and answer the questions that follow.





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a) Identify the equipment. (1mk)

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b) Name the parts labeled P, Q, S and T. (2mks)

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c) State the functions of T and U. (2mks)

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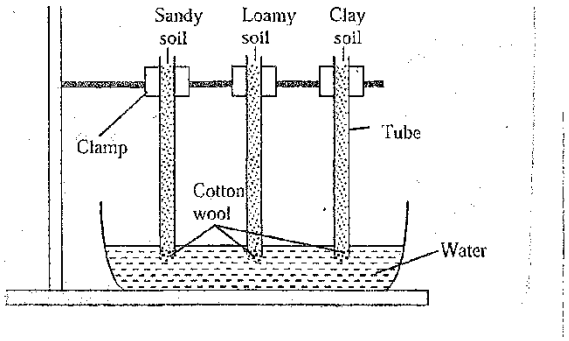
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23. The experiment below was set up to investigate a property of soil.




a) State the aim of the above experiment. (1mk)

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b) From the experiment, what conclusion can be deduced? (2mks)

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c) State two physical properties of soil that influence its productivity. (2mks)

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**SECTION C (20MKS) ANSWER ALL QUESTIONS IN THE SPACES PROVIDED.**

24. State and explain five factors which may influence the spacing of crops. (10mks)

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25. a) Describe six main nursery management practices carried out in a tomato nursery.(6mks)

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b) Give four factors that influence soil formation. (4mks)

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# FORM 2 END TERM 2 REFLECTOR EXAMS

**231**

**BIOLOGY (Theory)**

**$2\frac{1}{2}$ Hours**

**KENYA CERTIFICATE OF SECONDARY EDUCATION**

**FORM TWO BIOLOGY PAPER**

Instructions to Candidates

- Write your Name and admission Number in the Spaces Provided.
- Sign and write date of examination in the spaces provided.
- This paper consists of three sections A, B and C.
- Answer all the questions in Sections A, B and C in the spaces provided.
- You should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

**SECTION A**

1. (a) Biologically, what is a cell? (1 mk)

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b] Define the following term

I. Entomology (1 mk)

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II. Genetics (1 mk)

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2. State the characteristics of life that is demonstrated when seeds produce heat during germination (1 mark)

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3. State three structural differences between arteries and veins. (3 mks)

| Arteries | veins |
|---|---|
| | |
| | |
| | |

4. State **two** factors that denature enzymes. (2mks)

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5. Name **two** major branches of Biology. (2mks)

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6. (a) Name the organelles that perform each of the following functions in a cell.

(i) Synthesis of proteins (1mk)

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(ii) Transport cell secretions (1mk)

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(iii) Destroy old and worn out organelles or even the entire cell. (1mk)

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(iv) Package and transport glycoproteins. (1mk)

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(b) Using a light microscope, a student counted 55 cells across a field of view whose diameter was 6000μm. Calculate the average length of the cells. Show your working. (3 marks)

(c) Why is it recommended to keep the stage of the microscope dry. (1 mark)

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7. State the functions of the following apparatus.

i. Bait trap (1mk)

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ii. Pooter (1mk)

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8.In which two structural ways in which organelles chloroplast and mitochondria similar.(2mks)

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9. State two functions of centrioles. (2mks)

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10. What is the effect of extreme temperatures on proteins? (2mks)

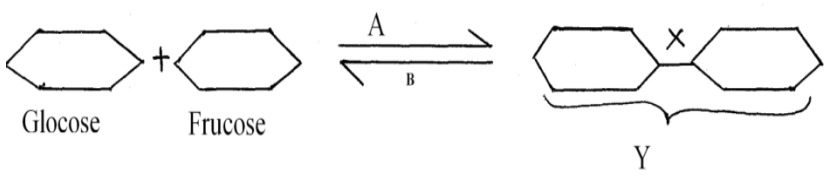
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11. Study the reaction below and answer the questions that follow.




i) State the biological process that takes place represented by A (1mk)

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ii) What Biological process is represented by B (1mk)

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iv) State the bond represented by X (1mk)

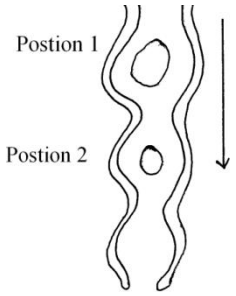
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12. The diagram below show how food bolus moves along the human oesophagus and the intestines.




a) Identify the process illustrated above (1mk)

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b) Briefly state how the movement of the bolus from position 1 to position 2 is achieved. (2mks)

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13. State **two** reasons why the stomach wall cannot be digested by the proteolytic enzymes.(2 marks)

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14. (a) **Define** the term balanced diet. (2marks)

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**(b) State** the importance of roughage in a diet. (1mark)

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15. State ONE role played by the following substance in digestion.

(i) Hydrochloric acid (2mks)

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(ii) Bile salts (2mks)

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16. State the role of the following chemicals in a test for non-reducing sugar.

(i) Hydrochloric acid (1mk)

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(ii) Sodium hydrogen carbonate (1mk)

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17. (a) Why is blood group AB described as universal recipient? (2mks)

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(b) Suggest why blood does not clot in blood vessels of a healthy person. (lmk)

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18. **State three** ways in which the vessels that link arterioles with venules are suited to carrying out their functions. (3marks)

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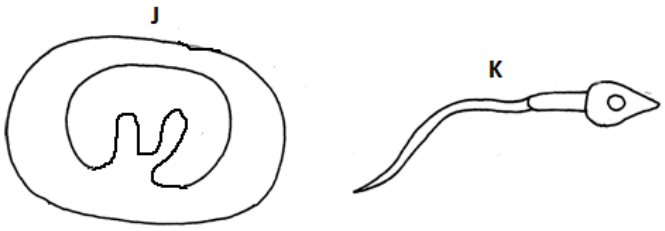
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19. Below are diagrams of specialised cells in mammals




(a) Identify each of the cells (2mks)

(i) J.

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(ii) K

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(b) Explain how cell specialization has enabled cell K to be effective in its functions (2mks)

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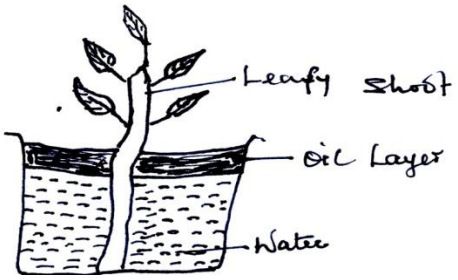
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20. Some students set-up the experiment shown below to investigate a certain physiological process in plants. After one hour, they placed cobalt chloride paper on the leaf surface.



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a) What process was being investigated? (1mk)

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b) State the role of the oil layer in the experiment (1mk)

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c) Suggest one precautionary measure that the students were supposed to observe during the preparation and setting up of the experiment (1mk)

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d) Suggest changes observed on the cobalt chloride paper after one hour. (1mk)

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21. Explain why water logged soil does not support plant growth. (3mks)

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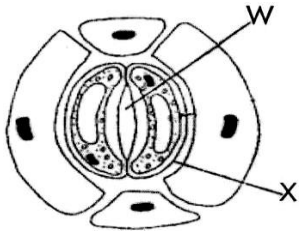
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## Section B

22. The diagram **below** shows part of plant tissue.




i.Name the cell labelled **X** and part labelled **W**. (2mks)

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ii.State **<u>two</u>** adaptations of cell labelled X to its functions. (2mks)

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23. The number of stomata on the lower and upper surface of two leaves form plant X and Y were counted under the field of view of a light microscope. The results were show below.

| | **Number of stomata** | |
|---|---|---|
| **Leaf** | **Upper surface** | **Lower surface** |
| **X** | 4 | 12 |
| **Y** | 20 | 23 |

a) Which of the leaves would be expected to have lower rate of transpiration (1mk)

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(b) Give a reason for your answer in [a] above (1mk)

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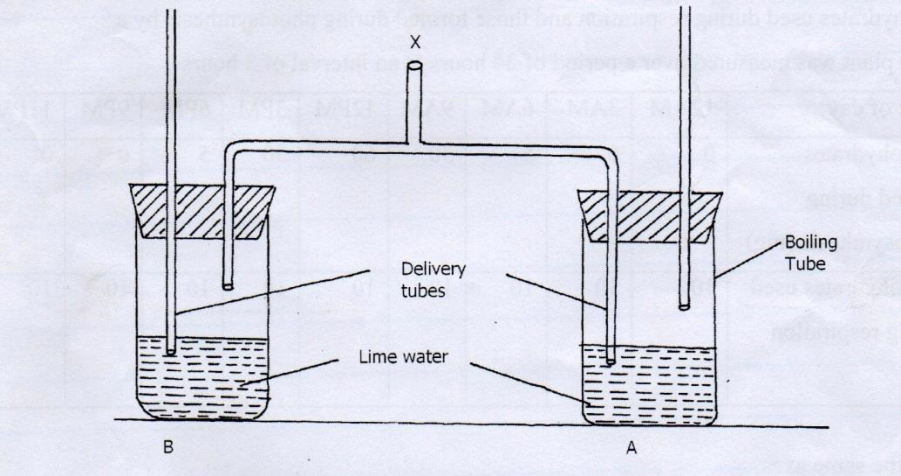

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24. An experiment was set up as show below.




(a) A student blew air in and out through point X. Using arrows indicate how air gets in and out of the set up (2mks)

(b) (i) In which of the tube would lime water turn milky first. (1mk)

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ii) Give a reason. (1mk)

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25. (a) Name the type of circulatory system found in members of the class insecta .(1mk)

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(b) Name the blood vessels that transport blood from:

(i) Small intestines to the liver (1mk)

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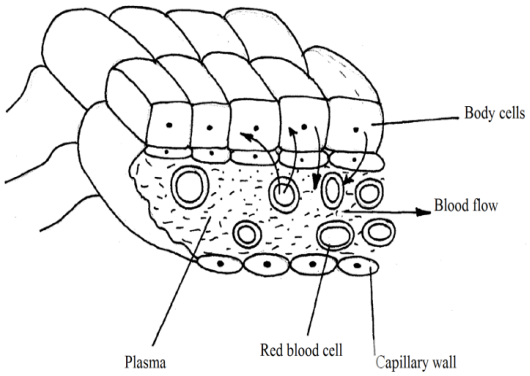
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(ii) Lungs to the heart (1mk)

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(c) The diagram below shows gaseous exchange in tissues




(i) Name the gas that diffuses

(I) To the body cells (1mk)

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(II) From the body cells (1mk)

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(ii) Which compound dissociates to release the gas named in (a)(i) above(1mk)

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(d) What is tissue fluid? (2mks)

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26. Describe the opening of the stomata using the potassium ion theory (10mks)

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27. (a) Name the respiratory surface in human beings. (1mk)

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b) Describe exhalation mechanism in human being. (9mks)

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# FORM 2 END TERM 2 REFLECTOR EXAMS

**BUSINESS STUDIES**

**565**

**TIME: 2 HOURS**

**FORM TWO**

**INSTRUCTIONS**

**(i)** Attempt all questions



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## SECTION A

**1.** Outline four characteristics of basic human wants. (4 marks)

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**2.** Outline four essential elements of a good warehouse. (4 marks)

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**3.** State four documents required by the registrar of companies in order to register a company. (4 marks)

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**4.** Outline four characteristics of a chain store. (4 marks)

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**5.** reasons why motorcycles are popular as means of transport. (4 marks)

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**6.** Highlight four challenges that entrepreneur face when carrying out business activities. (4 marks)

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**7.** State four ways in which goods and services are classified. (4 marks)

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**8.** Outline four features of land as a factor of production. (4 marks)

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**9.** Identify four circumstances under which air transport would be suitable to a business enterprise. (4 marks)

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**10.** State four reasons why it is suitable to locate a bonded warehouse at the point of entry. (4 marks)

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**11.** Highlight four effects of poor filing system in an organization. (4 marks)

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**12.** Outline four types of business activities. (4 marks)

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**13.** Mention three components of business studies. (3 marks)

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**14.** Outline four disadvantages of specialization. (4 marks)

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**15.** Highlight four ways in which government promotes entrepreneurship. (4 marks)

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**16.** On 1st August 2013, Grace received an invoice for Shs.24,000 terms of payment were trade discount 10% and cash discount 20% if payment is done within 30 days. Determine the amount paid if payment was made on 28th August 2013. (4 marks)



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**17.** Highlight four mailing services that are offered by a post office. (4 marks)

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**18.** Mention four gaps that may exist in a market leading to a business opportunity. (4 marks)

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**19.** State four circumstances when cash may be used as a means of payment. (4 marks)

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**20.** Highlight three ways in which Kenya Association of Manufacturers (KAM) ensure that their members do not exploit the consumers. (3 marks)

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**21.** Identify four qualities of an office messenger. (4 marks)

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**22.** State four challenges that a business without a plan will encounter in its operations. (4 marks)

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**23.** Highlight four reasons for privatization of public cooperation. (4 marks)

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## SECTION B

**24.** Jane and Joyce are two lawyers who want to start a joint law firm. Explain five limitations they may face during the operations of their business. (10 marks)


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# FORM 2 END TERM 2 REFLECTOR EXAMS

## FORM 2 CHEMISTRY

## END OF TERM 2 EXAMINATION

## 2 ½ HOURS

**INSTRUCTIONS:**

- Answer ALL questions in the spaces provided in the question paper
- All working must be clearly shown where necessary
- Candidates should answer the questions in English


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1. Name the method of separation that can most suitably be used to separate the following mixtures

a) Gasoline from petroleum. (1mk)

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b) Benzoic acid and potassium carbonate. (1mk)

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c) Oil from cashew nuts. (1mk)

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2. The table below shows information about three solid substances A,B and C.Study it and answer the question that follow.

| **SOLID A** | **COLD WATER** | **HOT WATER** |
|---|---|---|
| A | Soluble | Soluble |
| B | Insoluble | Insoluble |
| C | Insoluble | Soluble |

Describe how you will separate the three solids from a mixture of these three. (3mks)

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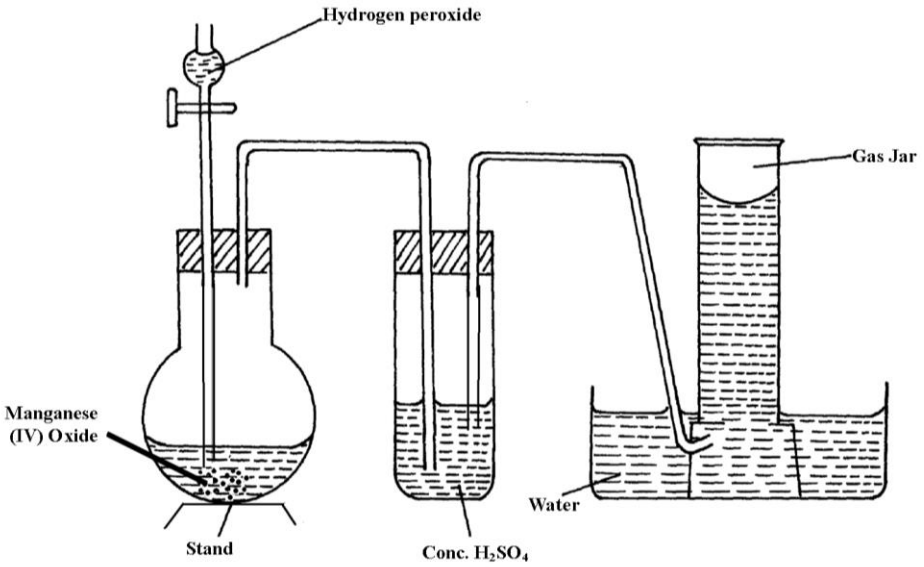
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3. The diagram below shows the set-up that can be used to prepare and collect oxygen gas. Study it and answer the questions that follow.




a) Identify two mistakes from the diagram which must be corrected for one to collect dry oxygen gas.(2mks)

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b) What property of oxygen gas makes it possible to be collected over water. (1mk)

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4. The table below gives information about some reactions of metals A,B, C and D and their rates.

| **METAL** | **Reaction with acid** | **Reaction with water** | **Action of heat on its nitrate** |
|---|---|---|---|
| A | Hydrogen evolved | No reaction | Oxide formed |
| B | NO reaction | No reaction | Metal formed |
| C | Hydrogen evolved | Hydrogen evolved | Oxide formed |
| D | NO reaction | NO reaction | Oxide formed |


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Arrange the metals in order of decreasing activity (Starting with the most reactive) (2mks)

5. The table below gives information on four elements by letters K,L,M and N.Study it and answer the questions that follow. The letters do not represent the actual symbol of the elements

| **Element** | **Electron arrangement** | **Atomic radius (nm)** | **Ionic radius(nm)** |
|---|---|---|---|
| K | 2.8.2 | 0.136 | 0.065 |
| L | 2.8.7 | 0.099 | 0.181 |
| M | 2.8.8.1 | 0.203 | 0.133 |
| N | 2.8.8.2 | 0.174 | 0.099 |

a) Which <u>two</u> elements have similar properties?

Explain (2mks)

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b) What is the most likely formula of the oxide of L? (1mk)

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c) Which element is a non – metal. Explain. (1mk)

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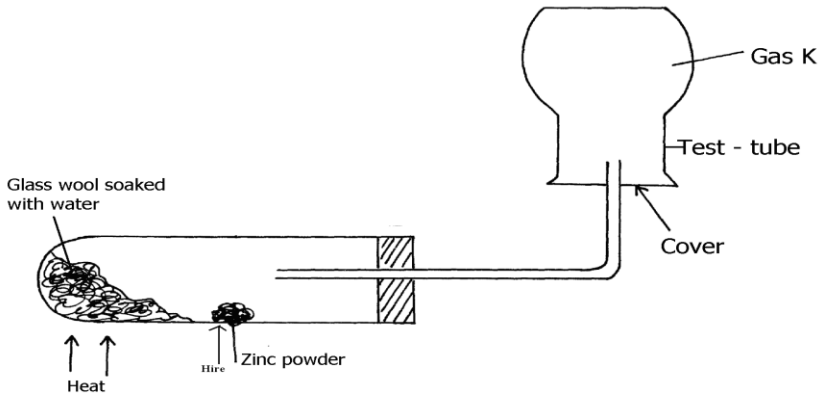
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6. A student set- up the experiment below to collect gas K. The glass wool was heated before heating the zinc powder.




a) Why was it necessary to heat the moist glass wool before heating the zinc powder.(1mk)

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b) What observation was made in the test-tube. (1mk)

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c) Explain why it's not advisable to prepare hydrogen gas by reacting dilute sulphuric (vi) acid with calcium metal. (2mks)

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7. Using dots(•) and crosses ( x) to represent the outermost electrons, draw the structure to show the bonding in $CO_2$ ( C = 6, O = 8) (3mks)


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8. Name the particles responsible for the electrical conductivity of

a) Graphite (1mk)

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b) Molten Magnesium chloride. (1mk)

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9. Starting with calcium carbonate, describe how a solid sample of calcium sulphate can be Prepared. (3mks)

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10. State and explain what would be observed when hydrogen gas is passed over heated copper (II) oxide in a combustion tube. (3mks)

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11. Solution R, S and T have PH values shown in the table below:

| Solution | pH value |
|---|---|
| R | 1.0 |
| S | 6.5 |
| T | 8.0 |



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a) What do you deduce about the nature of solution R? (1mk)

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b) Which solution would react most vigorously with sodium hydrogen carbonate? (1mk)

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c) Which solution is likely to be ammonia solution? (1mk)

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12. (i) Compare the second ionisation of Magnesium with its first ionisation energy. (1mk)

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(ii) Explain your answer in (i). (1mk)

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13. The electron arrangement of ions $X^{+2}$ and $Y^{-3}$ are 2.8.8 and 2.8 respectively. Write the electron arrangement of the atoms of

X (1mk)

Y (1mk)

14. (i) Which flame is produced when the air hole of a Bunsen burner is closed. (1mk)

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(ii) What is the use of the Collar on a Bunsen burner? (1mk)

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15. State **two** differences between ionic bond and covalent bonding compounds. 2mks

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16. Group 8 elements are known as noble gases. Explain their lack of reactivity……..(1mk)

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17. Explain the following trends observed in the periodic table.

a) Atomic radii increases down the group in alkali metals 2mks

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b) Melting point increases from sodium to aluminium in the third period. 2mks

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c) Chlorine is more reactive than sulphur. 2mks

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18. Element M has an electronic configuration of 2.8.1. Element N forms ions by gaining two electrons and react with metals to form oxides. Element P has an atomic number of 17 and reacts with water forming acidic solutions. Element Q reacts with P forming a white solid



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of formula QP. When a gas P is bubbled into colourless solution of MR, the solution turns reddish brown. When a gas R is bubbled into a solution of MS a dark solid is formed.

i) What is the valency of element P 1mk

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ii) What is the change of ion of element N.? 1mk

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iii) Write down the formula of the compound formed between M and N 1mk

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iv) If element M is reacted with water, what would be the nature of the resulting solution. Explain your answer. 3mks

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v) Write a balanced chemical equation for the reaction in (iv) above 2mks

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vi) Identify elements R and S. 2mks

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vii) Arrange elements P, R, S in order of their increasing reactivity. 1mk

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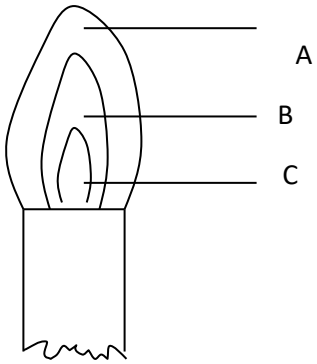
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viii) Write balanced equation for the reaction between gas P and solutions MR. 2mks

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19. The diagram below shows the flame of a bunsen burner with the air – holes open.




(a) On the diagram name the areas marked B and C. (1mk)
(b) Explain how the area marked B rises. (1mk)

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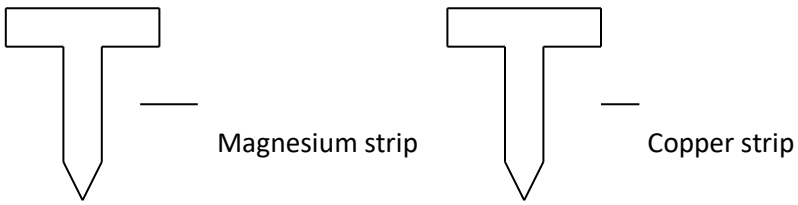
(c) Explain how the area marked A would change when the air – holes are closed. (1mk)

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20. The diagram below shows two nails A and B wrapped with two different metal strips. Explain with reasons which of two nails will rust most if they are exposed to moist air. (3mks)





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21. The table below shows some properties and electrons arrangements of common ions of elements represented by letters P to X. Study the information in the table and answer the questions that follow.

| Element | Formula of ion | Ion electron arrangement | Atomic radius (nm) | Ionic radius (nm) |
|---|---|---|---|---|
| P | $P^{2+}$ | 2:8:8 | 0.197 | 0.099 |
| Q | $Q^{-}$ | 2:8 | 0.072 | 0.136 |
| R | $R^{+}$ | 2:8:8 | 0.231 | 0.133 |
| S | $S^{3+}$ | 2:8 | 0.143 | 0.050 |
| U | $U^{2+}$ | 2:8 | 0.160 | 0.065 |
| V | $V^{+}$ | 2:8 | 0.186 | 0.095 |
| W | $W^{+}$ | 2 | 0.152 | 0.060 |
| X | $X^{-}$ | 2:8:8 | 0.099 | 0.181 |

(a) (i) Give the atomic numbers of elements P and Q. (2mks)

**P ……..**

**Q ……**

(ii) Select elements that belong to the period 4 of the periodic table. (1mk)

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(iii) Select **an** elements that would react with cold water explosively evolving hydrogen gas.(1mk)

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(iv) Why is the ionic radius of element X larger than its atomic radius? (2mk)

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(v) Write an equation for the reaction between S and Oxygen. (1mks)

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22. The table below gives some properties of three substances A, B and C.

| SUBSTANCE | A | B | C |
|---|---|---|---|
| Appearance | Brown solid | Yellow solid | Yellow solid |
| Melting point ($^oC$) | 1017 | $115^0C$ | $402^0C$ |
| Solubility in water | Insoluble | Insoluble | Sparingly |
| Electrical conductivity (solid) | Conducts | Does not conduct | Does not conduct |
| Electrical conductivity (liquid) | Conducts | Does not conduct | Conduct but decomposed |

a) Giving reasons for your answers, which of the substances A, B and C has

i) Giant ionic lattice 2mks

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ii) Simple molecular lattice 2mks

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iii) Giant metallic lattice 2mks

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b) Why does C conduct electricity only in molten state but not in solid state 1mk

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c) Why is A not decomposed when it conducts electricity 1mk

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d) Explain in terms of structure and bonding why the melting point of B is lower than that of C. 2mks

23. Salt is sprinkled on roads in Europe during winter to prevent formation of ice on roads. Explain how the salt works. (2mks)

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24 . Study the information in the table below and answer the questions that follow.

| **Element** | **Atomic number** | **Melting point ($^{o}$C)** |
|---|---|---|
| P | 14 | 1410 |
| Q | 16 | -235 |

In terms of structure and bonding explain the difference in the melting points. (3mks)

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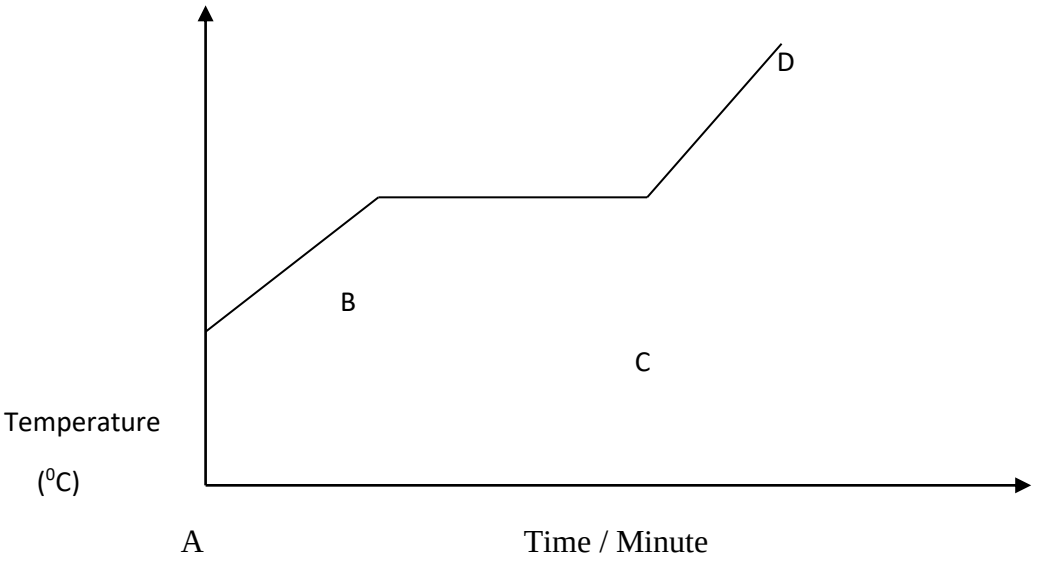
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25 .The diagram below shows part of a temperature / time curve obtained when pure solid Naphthalene is heated.




(a) Explain why part BC is horizontal. (1mk)

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(b) On the axis above draw the curve for impure Naphthalene solid. (2mks)

26. (a) The relative atomic masses of some elements are not whole numbers. Explain. (1mk)

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(b) An elements Gallium has relative atomic mass 69.8. In 100 atoms of Gallium 60atoms are Gallium 69 and 40 atoms are Gallium X.
Determine the value of X. (3mks)


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27. (a) What is valency. (1mk)

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(b) The valency of X is 3, what is the formula of its;

(i) Hydroxide. (1mk)

(ii) Sulphate.



Prefer Calling Sir Obiero Amos @ 0706 851 439 for Marking Schemes

**NAME:** ……

**SCHOOL:** ……

**ADM NO:** …… **DATE:** …… **SIGN:** ……

# FORM 2 END TERM 2 REFLECTOR EXAMS

## COMPUTER STUDIES

## FORM TWO END TERM 2 EXAMINATION

1. Name **three** major components of a computer system. (3 marks)

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2. John saw the following symbols at the back of his system unit. What do the symbols represent? (2 marks)



A



B

**A** ……

**B** ……

3. List down any **four** advantages of using computers as tools of problem solving. (2marks)

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Prefer Calling Sir Obiero Amos @ 0706 851 439 for Marking Schemes

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4. Since the invention of the first generation of digital computers, much advancement has been realized in the sector of information and technology. Explain **two** characteristics which have been improved from the first generation to the modern computers. (4 marks)

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5. (a) Name two ways of classifying computer software. (2 marks)

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*(b)* Outline any two functions of operating system software. (2 marks)

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6. Give **two** ways of classifying operating systems. (2 Marks)

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**7.** a)What are toggle keys (1 mark)

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b) Give two examples of toggle keys. (1 mark)

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Prefer Calling Sir Obiero Amos @ 0706 851 439 for Marking Schemes

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8. a) What is a computer virus? (1 Mark)

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b) Give **two** names of common computer viruses. (2 Marks)

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c) State **two** security measures which should be observed to safeguard data against computer viruses. (2 Marks)

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9. Name **two** special purpose memories found either found inside or outside the microprocessor hence explain what each of them does.
(2marks)

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10. Describe **three** facilities or ways of ensuring proper ventilation in a computer laboratory. (3 Marks)

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11. Computers can store data using three ways namely electronically, magnetically and optically. Give **two** examples of storage devices in each method: (2 marks)

(i) Magnetically

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(ii) Optically

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12. (a) Define the term firmware. (1 mark)

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(b) Describe any **two** examples of utility programs. (2 marks)

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13. List down **two** uses of UPS in a computer laboratory. (2 marks)

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14. Describe the **two** methods of computer booting. (2 marks)

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15. a) Explain the use of any two buttons found in a Spell-check dialog box. (2 marks)

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b) Suggest the importance of the following features in the document preparation. (4 marks)

i)Thesaurus.

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ii) Spellcheckers.

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(c) Using the text below, identify any five Word Processing formats that have been applied. State and define each feature briefly (5 marks)

Microsoft Office Word 2007 helps you produce **professional – looking** documents by providing a comprehensive set of tools for creating and formatting your document in a new interface. Rich review, *commenting*, and comparison capabilities help you quickly fetch $H_20$ and manage feedback from colleagues.

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16. (a) Describe **five** features available in most word processing applications. (5 marks)

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(b) Explain the following terms as used in word processing: (3 marks)

(i) Word wrap

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(ii) insert mode

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(iii) type over mode

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(c) What is a document password? (2 marks)

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(d) Outline **five** formats that can be applied to a paragraph in a word processing document. (5Marks)



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e) State the function of the following keyboard short cut keys (3Marks)

**i.** CTRL+S……

ii. CTRL+V……

iii. CTRL+X……

iv. CTRL+F……

v. ALT+F4……

vi. CTRL+H……

17. a) i) Give one advantage of using GUI over command Line Interface. (1 mark)

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ii) Some computer systems still use command line interfaces. State **TWO** advantages of command line interface. (2 marks)

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b) i) List four devices that are needed in order to listen to music from a computer system.(2 marks)

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ii) What is LED in reference to softcopy output devices? (2 marks)

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c) i) Outline **THREE** precautions one should take when assembling a computer. (3 marks)

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ii) Give the **THREE** contents of a good warranty. (3 marks)

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d) Distinguish between serial and parallel communication ports of a computer. (2 marks)

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18. a) Mr. Matano is a teacher at Kamangu High School and wishes to use MS-Excel to process the marks obtained by his students during the term. The table below shows the details entered in the Ms-Excel worksheet.



Prefer Calling Sir Obiero Amos @ 0706 851 439 for Marking Schemes

| | A | B | C | D | E | F | G | H | I |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | NAME | CAT-1 | CAT-2 | CAT-TOTAL | EXAM | TOTAL(%) | GRADE | RANK |
| 2 | 1 | SUSAN M. | 14 | 6 | | 56 | | | |
| 3 | 2 | PETER K. | 13 | 8 | | 34 | | | |
| 4 | 3 | MARY A. | 10 | 4 | | 59 | | | |
| 5 | 4 | PAUL P. | 11 | 7 | | 57 | | | |
| 6 | 5 | JANET F. | 6 | 9 | | 48 | | | |
| 7 | 6 | JUSTIN G. | 8 | 7 | | 50 | | | |
| 8 | CAT-1 IS OUT OF 20, CAT-2 IS OUT OF 15 AND EXAM IS OUT OF 65 | | | | | | | | |
| 9 | | | | | | | | | |

i) Write a logical function that display PASSED when the total marks is greater than 70% marks otherwise display FAIL. (3mks)

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ii) Write a function that RANKs the students according to their total performance. (5mks)

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iii) Write a function that displays the GRADE, using the following grading system: (5mks)

80..100 - A
60..79 - B
40..59 - C
0..39 - E

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iv) The formula =COUNTIF (F2:F7,">=50") was entered at cell F9. Write down the value that was displayed. (2mks)

v) Write down the formula that would be entered at cell C9 to sum the values in column C whose values are greater or equal to 10. (3mks)

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Prefer Calling Sir Obiero Amos @ 0706 851 439 for Marking Schemes

**CHRISTIAN RELIGIOUS EDUCATION**

**NAME: ……**

**SCHOOL: ……**

**ADM NO: …… DATE: …… SIGN: ……**

# FORM 2 END TERM 2 REFLECTOR EXAMS

**CRE**

**QUESTION PAPER.**

**Instruction to the students**

- **Answer all the questions**
- **All answers must be written in English.**

**1** a) Identify the promises of God to King David. (7mks)

b) Give seven failures of King Solomon (7mks)

c) Mention the reasons why a leader may be rejected in the society. (6mks)

**2** a) Explain the traditional African understanding about God. (7mks)

b) Outline the hierarchy of beings in the traditional African society. (7mks)

c) List down the occasions when sacrifices were offered in traditional African communities. (6mks)

**3** a) Identify the ways in which Jesus fulfilled the prophecies about the Messiah. (8mks)

b) What did Simeon and Anne the prophets reveal about Jesus during His dedication? (5mks)

c) Give ways in which parents can help their children to establish good relationship with God. (7mks)

**4** a) Relate the miracle of feeding the five thousand. (8mks)

b) Why did Jesus use miracles in His public ministry? (6mks)

c) What Lessons do Christians learn from the feeding of the five thousand? (6mks)

**5** a) Narrate the parable of the prodigal son. (8mks)

b) Give reasons why Jesus used the parable of the lost son in his teaching. (6mks)

c) Identify the reasons why Christians should practice forgiveness. (6mks)


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**NAME: ……**

**SCHOOL: ……**

**ADM NO: …… DATE: …… SIGN: ……**

# FORM 2 END TERM 2 REFLECTOR EXAMS

**101/1**

**ENGLISH**

**COMBINED PAPER**

**Time: 2 ½hours**
**Instructions to candidates**

**(**1) Wrote your name, admission number in the spaces provided.

(2) Sign and write the date of the examination in the space provided.

(3) Answer all questions provided in this question paper.

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

(5) Check the question paper to ascertain that all pages are printed as indicated and that no questions are missing.

**FOR EXAMINTER'S USE ONLY**

| Question | Maximum Score | Student's Score |
|---|---|---|
| 1 | **20** | |
| 2 | **10** | |
| 3 | **20** | |
| 4 | **15** | |
| 5 | **20** | |
| 6 | **15** | |
| **Total Score** | **100** | |

**This paper consists of 12 printed pages**


Prefer Calling Sir Obiero Amos @ 0706 851 439 for Marking Schemes

1. **FUNCTIONAL WRITING**

The school is about to be closed. As soon as the school close, members of Christian Union are visiting a town far away from your county. Since there is little time to prepare for this trip, you have thought of writing a letter to your cousin to help you pack the items you will need when going on this trip.

(a) Write the letter that you will send to your cousin. (12 mks)

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(b) Write the packing list you will include in the letter. (8 mks)

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Prefer Calling Sir Obiero Amos @ 0706 851 439 for Marking Schemes

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**2. <u>CLOZE TEST</u> 10 MARKS**

**Fill in each gap in the following passage with the most appropriate word.**

We are approaching the examination season once again and, (1) **……** usual, the issue of exam cheating and leakages is (2) **……** us. First we (3) **……** separate the two issues: cheating is the use (4) **……** unorthodox means to gain an advantage in tackling (5) **……** exam and is solely the responsibility of the person being examined. Leakage, on the other (6)**……,** is the unauthorized release of the (7)**……**. exam before the official time, and is solely the responsibility of the examining (8) **……**

This year, we are still being treated to the same circus of warnings, threats (9) **……**

promises by the authorities, but the sad fact is that there will definitely be cheating and leakages. Why? Because we are (10) **……** dealing with the real problem.

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

On any given Sunday, all across the world, churches are likely to have more women in the pews than men. Some estimates place the so-called "gender gap" in America at 61 percent women. That means that every Sunday there are millions more women attending church than men.

There are several theories put forward for why, comparatively, there are so few men attending church. One theory is that the church's teachings, emphasizing humility, holiness, and introspection, are seen by some men as "weak" or somehow less than masculine. Men are looking to be challenged with a "bold" message of adventure, danger and aggressiveness.

Finding the right activities to attract men is also a challenge for many churches. Some

**congregations** make an extra effort to provide time of fellowship and bonding for men by adding hunting expeditions, fishing trips, sports, etc., to their schedules.

Another theory is that many churches, knowingly or unknowingly, create a feminine atmosphere with their décor. **Floral** arrangements, pastel colors, frilly curtains, and pictures of passive, pastoral scenes make for a peaceful ambiance, but they tend to make men feel a disconnect. Some churches attempt to appeal to masculine sensibilities by changing their décor to something edgier, darker, more robust and less nurturing.

Another explanation for why there are so few men in church has to do with the stereotypical masculine ego. Men are naturally self-reliant, headstrong, and proud, the theories go, and are therefore naturally more resistant to the diviner call to humility and submission. The gospel confronts our need, and men are often averse to admitting neediness.

There are other **hypotheses**, such as upbringing. Most men were reared by fathers who did not attend church services and so have no role model for masculine involvement in a church. There is the suggestion that men, the traditional breadwinners, are too busy working–or enjoying their day off work–to commit to a church. And overly sentimental church music is sometimes mentioned as something that keeps men away, too.

There might be a grain of truth in each of these theories, but none of them fully explain the gender gap in modern churches. No one rejects church simply because of frilly curtains or a sappy song; there is most likely a deeper problem.

Men avoid church for a variety of reasons, and church leaders should be aware of those possible reasons as they reach out to young men, husbands and fathers. Men should be challenged to emulate the heroes of the faith-robust men such as Moses, Elijah and Peter. The Christian life should be presented as the adventure it truly is. And we should pray that God would increase the number of men who recognize their God-given responsibilities and who are unafraid to commit their talents and service to a local church.

**Questions**

(a)What percentage of church congregation in America is men according to the passage?(2 mks)

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(b) That means that every Sunday there are millions more women attending church than men.

*Rewrite by replacing 'more' with 'less'* (1 mk)


Prefer Calling Sir Obiero Amos @ 0706 851 439 for Marking Schemes

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(c) Make a list of church's teachings that men consider as weak. (3 mks)

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(d) Make notes on the reason for men's absence in church. (5 mks)

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(e) Name **three** heroes men should emulate as they attend the church services as mentioned in the passage. (3 mks)

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(f) State **two** ways in which more men can be encouraged to attend church services as discussed in the last paragraph of the passage. (2 mks)

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(g) Write down the message that the writer of this passage is trying to pass across. (1 mk)

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(h) Give the meaning of the following words as used in the passage. (3 mks)

(i) Congregations

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(ii) Floral

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(iii) Hypotheses

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4. **Read the following poem carefully and answer the questions based on it. (15 mks)**

Camera martyrs
Journalists kidnapped, imprisoned, killed!
You didn't have to kill them
They simply wanted to expose your plight
To bring the world's mind into your own
To feel your pain
To taste your tears
To grieve your dead
To drink your agony.

Journalists risking everything
Why?
One said
We believe the world has to know
We believe to know someone has to be there
That person has to love the job more than the self


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That person happens to be me
I am your eyes, your ears.
I risk for the sake of the story
It takes sacrifice
Friends, not foes.

I don't enjoy it
Would you.
Seeing people reduced to meat.
Glaring at cities burn.
Witnessing all the destruction
Rummaging through the rubble
Counting the dead.

Taking in the stench of death
Staring at your own death
It takes sacrifice
Friends, not foes
Why do you kill them?
How will the world know?
How will help come?

Let the cameras roll
For it takes sacrifice
Friends not foes.

**Questions**

(a) List three problems that journalists face in the course of their duty according to the poem.(3 mks)

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(b) State two roles of journalists as given in the poem. (2 mks)

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(c) Giving a reason for your answer, state one character trait a journalist must have as brought out in the 2nd stanza. (2 mks)

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(d) From the poem, identify and give an example of: (2 mks)

(i) a metaphor

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(ii) a rhetorical question

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(e) Give two forms of destruction cited in the poem. (2 mks)

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(f) Why do you think "To" has been repeated in the 1st stanza? (2 mks)

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(g) How, according to the speaker in the poem, will the problems facing society be solved? (2 mks)

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5. **GRAMMAR (20 MKS)**

(a) Rearrange the jumbled up letters in brackets to form the correct word. Use the word to fill in the blank space. (4 mks)

(i) Do you **……** in luck? (eiveleb)

(ii) **……** the boy who stole from you (srcdibee)

(iii) The news he **……** is saddening. (cereidev)

(iv) Your **……** is painting the floor. (henirourbg)

(b) Fill in the most suitable preposition. (4 mks)

(i) I disagree **……** you completely. You can't do this!

(ii) Can you excuse us **……** .class this afternoon?

(iii) Domnic insisted **……** his answer.

(iv) He prefers swimming **……**. Fishing.

(c) Punctuate the following sentences correctly. (4 mks)

(i) jane and jack went to the market.

……

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(ii) he wasn't the only one who knew the answer.

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(iii) Don't go outside she said

……

……



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(iv) Holy moses screamed Juma

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……

(d) Without changing their meanings, rewrite the following sentences according to the instruction after each. (4 mks)

(i) Eucabeth washed a pair of **small school smart** uniform.

*Correct the order of the words in boldface*

……

……

(ii) His room is full of **African old strange** pictures.

*Correct the order of the boldfaced words*

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(iii) I saw nothing

*Use: did not*

……

……

(iv) More boys than girls scored above 50%.

*Begin: fewer*

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(e) Fill in the most appropriate form of the word in brackets. (4 mks)

(i) I **……** the composition. Can I go out now? (write)

(ii) Please be quiet. The students **……** (read)

(iii) By this time next year, she **……** medicine for three
years. (study)

(iv) Bradley **……** of calling me when I entered the house. (think)


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6. **ORAL SKILLS**

Read the conversation below between Rose, a student and the school Secretary, then answer the questions that follow.

| | |
|---|---|
| Rose: | Hallo: Good morning |
| Secretary: | Who is on the line and what do you want? |
| Rose: | I am Rose, a Form 4N student and I have been away from school for three days now. May I speak to the Principal? |
| Secretary: | The Principal is not in the office now. |
| Rose: | Could I please leave a message for him? |
| Secretary: | Oh, please, don't you have his cellphone number? |
| Rose: | No Madam, since it is official, kindly take down the… |
| Secretary: | Excuse me, young girl, I am too busy for this idle chat. |
| Rose: | I am sorry but it is very urgent, madam. |
| Secretary: | (Without a pen or paper) Go ahead and you better be quick. |
| Rose: | Thanks for the attention. |

**Questions**

(a) Identify the weaknesses in the secretary's telephone conversation skills. (4 mks)

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(b) Suggest three things the secretary should have done to observe telephone etiquette.(3 mks)

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(c) Identify three instances in the conversation when telephone etiquette has been observed.

(2 mks)

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2. (i) Indicate the correct intonation for the following sentences. (3 mks)

(a) Can I take you home?

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(b) How did she travel to Nairobi?

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(c) I have been working very hard for the coming examination.

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(ii) Pick the odd one out according to the pronunciation of words in each group in reference to the letters underlined. (2 mks)

(a) Charade church chauffeur chassis

(b) Axe xenon tax maximum



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# FORM 2 END TERM 2 REFLECTOR EXAMS

## 312/1
## GEOGRAPHY
## FORM 2
## END OF TERM II EXAM
## TIME: 2 HRS

**Instructions**

1) Answer all questions on the spaces provided
2) Answer should be written in English

1) Identify the term that describe the following statement (4mks)

| | Statement | Term |
|---|---|---|
| i) | Study of the rock materials | |
| ii) | study of weather and climate | |
| iii) | study of soil | |
| iv) | study of population | |

2) Identify four ways a form two student would benefit from studying geography (4mks)

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3) Classify the following clouds as either high, middle or low clouds (use a tick) (3mks)

| | **Types of clouds** | **High** | **Middle** | **Low** |
|---|---|---|---|---|
| i) | Cumulus | | | |
| ii) | Cirros | | | |
| iii) | Stratus | | | |

4) Name four instruments kept in a Stevenson screen (4mks)

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5)a) Differentiate between magnetic North and true North (2mks)

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b) Identity four factors that should be considered when preparing a questionnaire (4mks)

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6) State four methods of recording statistical Data (4mks)

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7)a)i) Define the term map (2mks)

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ii) Give three characteristics of sketch map (3mks)

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b) Convert the following statement scale into representative fraction (RF scale)

i) 1 cm rep 1km (2mks)

ii) 1cm rep 200m (2mks)

iii) 1cm rep 0.05km (2mks)

c) Outline three methods used to measure distance on a curved line (3mks)

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b) Explain four evidence put forward to proof continental draft theory (8mks)

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c) Name one fold mountain in

i) Asia …… (1mk)

ii) North America …… (1mk)

iii) South America …… (1mk)

d)i) Apart from fold mountain name three other features resulting from folding (3mks)

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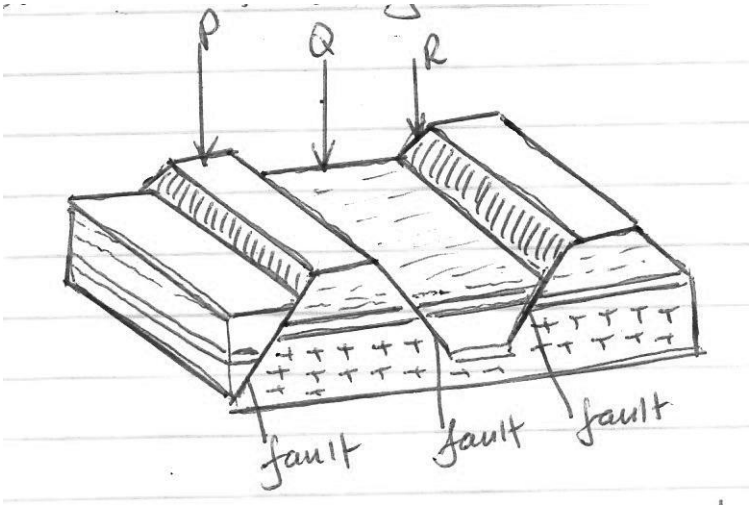
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9) The diagram below represent feature produced by faulting. Use it to answer the questions that follows.




a) Name the features marks (3mks)

**P** .....

**Q** .....

**R**.....

b) Differentiates between a normal fault and a reverse fault (2mks)

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c) State four uses of rocks (4mks)

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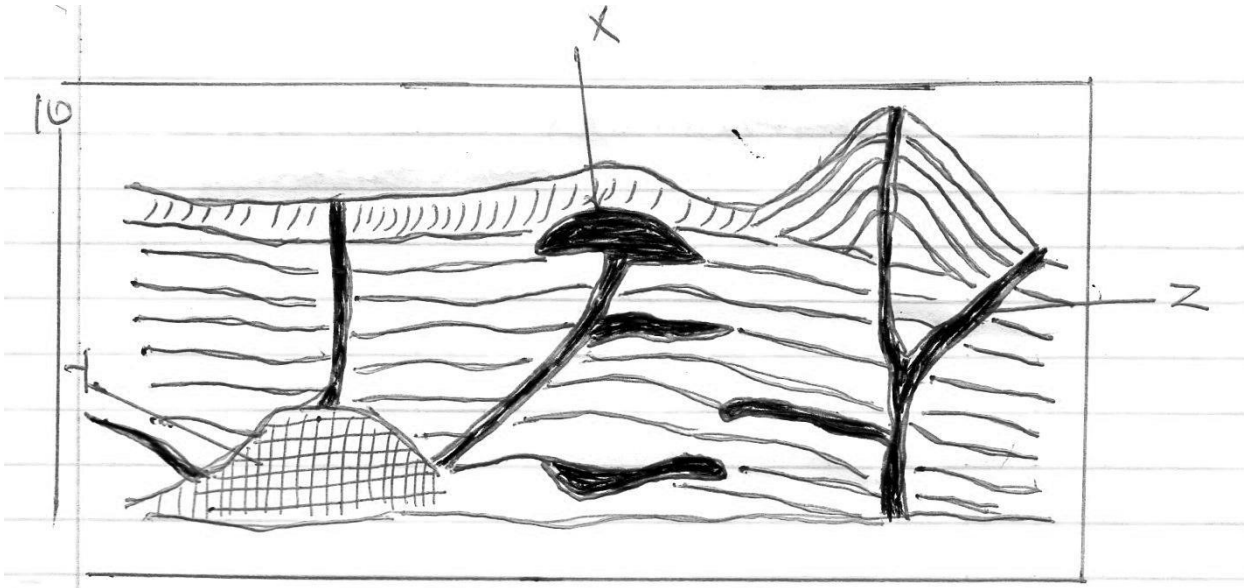
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a)i) name the features marked X, Y, and Z (3mks)

**X** .....

**Y** .....

**Z** .....

ii) Explain how a parasitic cone is formed (4mks)

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b) Give six characteristics of a composite cone (6mks)

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c) Explain four ways in which volcanic mountain positively influence human activities (8mks)

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d) You intend to carry out a field study of a volcanic landscape

i) State four reasons why it is necessary to conduct a reconnaissance of the area of the study (4mks)

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ii) During your field study state why you would need the following item.

i) Geological hammer (2mks)

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ii) A polythene bag (2mks)

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11)a) Give four causes of earthquakes (4mks)

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b) Name three types of earth quakes (3mks)

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c) State the five ways in which earth crust is affected by earthquake (5mks)

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12)a) What is a photograph? (2mks)

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b) List three types of ground photographs (3mks)

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c) Name three ways in which a photograph can be subdivided horizontally (3mks)

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**ADM NO: …… DATE: …… SIGN: ……**

# FORM 2 END TERM 2 REFLECTOR EXAMS

## HISTORY AND GOVERNMENT

## FORM TWO

## TIME: 2 HOURS

**INSTRUCTIONS TO CANDIDATES:**

1. Write your name and admission number in the space provided above.
2. The paper consists of three sections, A, B and C.
3. Answer all the questions in the spaces provided after each question.
4. Candidates should answer the questions in English.


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## SECTION A

***ANSWER ALL THE QUESTIONS IN THIS SECTION.***

1. Identify one archaeological site found in Ethiopia. (1 mk)

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2. Name two sources of information about East African coast (2 mks)

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3. State the missionary who translated the Bible into Kiswahili for the first time. (1 mk)

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4. Give the main factor that facilitated the coming of early visitors to the East African coast(1 mk)

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5. State two problems faced by traders when using barter trade. (2 mks)

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6. State the main factor that led to the decline of Kilwa (1 mk)

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7. Identify one region involved I the Trans – Atlantic trade. (1 mk)

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8. State two disadvantages of using a messenger as a means of communication.(2 mks)

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9. State two advantages of wood as a source of energy. (2 mks)

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10. Give two ways in which rural – urban migration contributes to national unity. (2 mks)

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11. State two items of trade from Africa during the Tans – Atlantic trade. (2 mks)

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12. Identify one factor that led to the growth of Meroe. (1 mk)

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13. State one major trading center along the Trans – Saharan trade routes. (1 mk)

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14. Give two advantages of using electricity in industries during the industrial revolution. (2 mks)

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15. State two ways in which education promotes national unity. (2 mks)

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16. State one way of becoming a Kenyan citizen (1 mk)

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17. Name the head of judiciary in Kenya. (1 mk)

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## SECTION B.

***ANSWER ALL THE QUESTIONS IN THIS SECTION.***

18(a). State five reasons why early agriculture in Egypt was successful. (5 mks)

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(b). Explain five effects of Agrarian Revolution in the United States (10 mks)

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19(a). State three uses of steam in Europe during the 19th Century. (3 mks)

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(b). Explain six factors that promoted industrial development in Japan. (12 mks)

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20(a). Identify three kinds of spirits in the Shona kingdom (3 mks)

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(b). Describe the political organization of the Shona in the 19th Century. (12 mks)

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## SECTION C

***ANSWER ALL THE QUESTIONS IN THIS SECTION***.

21(a). Name three symbols of national unity as outlined in the 2010 Kenyan Constitution. (3 mks)

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(b). Explain six reasons why national integration is important to national development. (12 mks)

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22(a). Identify five stages in the constitution making process (5 mks)

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(b). Describe the main features of the Kenyan Constitution. (10 mks)

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# FORM 2 END TERM 2 REFLECTOR EXAMS

## HOMESCIENCE THEORY FORM TWO

## PAPER 1

## 441/1

## INSTRUCTIONS: -

A) THIS PAPER CONSISTS OF 3 SECTIONS A B AND C.

B) ANSWER ALL QUESTIONS IN SECTION A AND B AND ANY 2 IN SECTION C

C) ASCERTAIN NO PAGE IS MISSING

D) ANSWER ALL QUESTIONS IN ENGLISH

## FOR EXAMINERS USE ONLY

| Section | Question | Maximum score | Candidates score |
|---|---|---|---|
| | 1 - 7 | 40 | |
| | 18 | 20 | |
| | 19 - 21 | 20 | |
| | | 20 | |
| Total score | | 100 | |



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## Section A: Answer all questions in the space provided

1. Give 3 functions of nicotinic acid in the body. (3mks)

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2. State 2 essential minerals for healthy teeth. (2mks)

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3. Give 2 reasons for adding methylated spirit when laundering. (2mks)

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4. List 4 examples of neatening stitches for raw edges. (2mks)

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5. State 2 reasons for drying white cotton in the sun. (2mks)

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6. Name 2 deficiency diseases common to children. (2mks)

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7. Name 3 lifting tools made of metal. (3mks)

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8. State 2 points to consider when buying a tape measure. (2mks)

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9. Give 2 definitions of Home science. (2mks)

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10. List four items in the house that can be recycled. (2mks)

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11. Differentiate between kitchen hygiene and food hygiene. (3mks)

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12. Give 2 qualities of a good thread. (2mks)

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13. Give 2 advantages of a pressure cooker over a sufurias. (2mks)

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14. State 2 reasons of soaking clothes. (2mks)

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15. Give the function of the following parts of a sewing machine. (3mks)

a) Feed dog……

b) Stitch length regulator……

c) Presser foot……

16. State the uses of each of the following.

a) Water seal. (2mks)



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b) U-or S bend (bottle trap) (2mks)

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17. Define damping as used in laundry work. (1mk)

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**Section B (Compulsory) (20mks)**

18. Your sister is going away to visit your mother for the weekend. Giving reasons, describe how you would launder:

a) Launder her woolen sweater (10mks)

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b) Thorough clean her enamel plate. (5mks)

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c) Thorough clean a discoloured melamine cup. (5mks)

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**Section C: Answer any two questions in this section**

19. a) Describe 5 methods of disposing household refuse. (10mks)

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b) Identify 6 qualities of a pit latrine. (6mks)

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c) Give four reasons for having proper drainage in a house. (4mks)

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20. a) Explain 4 qualities of a good ironing board. (8mks)

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b) Giving 2 examples in each case, list 2 types of stain removers. (4mks)

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c) Explain 4 rules to observe when removing stains. (8mks)

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21. a) Give 6 causes for thread breaking while machine stitching. (6mks)

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b) State 5 qualities which make cotton suitable for children's wear. (10mks)

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c) List 4 advantages of using a refrigerator. (4mks)

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**JINA: ……**

**SHULE: ……**

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

# FORM 2 END TERM 2 REFLECTOR EXAMS

**102**

**KISWAHILI**

**KIDATO CHA PILI**

**MUDA: SAA 2 ½**

**MTIHANI WA MWISHO WA MUHULA WA PILI**

**MAAGIZO**

**Jibu maswali Yote.**

| | SWALI | UPEO | ALAMA |
|---|---|---|---|
| A | INSHA | 20 | |
| B | UFAHAMU | 15 | |
| C | SARUFI NA MATUMIZI YA LUGHA | 40 | |
| D | ISIMUJAMII | 10 | |
| E | FASIHI SIMULIZI | 15 | |
| | JUMLA | 100 | |


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**SEHEMU A; INSHA (ALAMA 20)**

Tunga kisa kitakachodhihirisha maana ya methali ifuatayo.

Asiyesikia la mkuu huvunjika guu.

……

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……

**SEHEMU B :UFAHAMU (ALAMA 15)**

Soma kifungu kasha ujibu maswali.

Taarifa tunazozitazama kwenye runiga, kuzisikiliza redioni na kuzisoma magazetini huelekea kuwa kazi za kubuni zaidi kuliko matukio halisi yatakayokuwa sehemu ya historia.

Unapolishuhudia tukio moja kwa moja unadhani unatazama uigizaji wa tamthilia iliyoandikwa na mtunzi mwenye tajriba na jasiri. Aututaielezaje hali ambapo magavana, wabunge na viongozi wengine waliochaguliwa kwa njia halali wnadai hawamtaki naibu chansela 'asiye mwenyeji' kujiongoza chuo chao?

Kwa kweli, maneno ya kuandikia makala haya yananikimbia ninapokumbuka 'chuo chao' hicho ambacho kimekuwa kikiongozwa na 'mweneji' kimetokea kuwa na utata wa jinsi viongozi wacho walitumia shilingi bilioni moja, pesa za umma nadhani. Nadai ninadhani kwani huenda 'ni zao' vilevile na ndimi nisiyejua.

Ninawapa heko viongozi wa Taasisi yaKuunda Mitaala Nchini (KICD) kwa kubuni somo liitwalo Life Skills, yaani, stadi za maisha. Somo hili hufumbata masuala muhimu ya kumwesheza mwanafunzi kujithamini na kujifunza kutagusana na wanajamii wengine vilivyo. Kutotahiniwa kwa somo hili huwahakikisha wanafunzi kwamba kimedhamiriwa kuimarisha utangamano tu.

Je, somo hili tu ndilo litaachiwa uadilifu na mengine yote kuwa msingi wa ajira? Kabla ya kuanzishwa kwa somo hili, malengo ya Kitaifa ya Elimu yamekuwapo. Ninajua yamekuwa yakifikiliwa na masomo yote yakiwemo Fizikia, jiografia, Hisabati na Zaraa. Iweje sasa yageuzwe kuwa kiini cha ajira tu. Sina shaka kuna walakini mkubwa. Sharti tuchunguze lililoenda kombo na kuliwahi mapema.

Mwanafunzi wa kidato cha tatu anapofundishwa *probability*, yaani welekezo katika Hisabati, aone welekeo au uwezekano sawa wa naibu chansela wa chuo kikuu chochote nchini kutoka katika mojawapo ya makabila arubaini na mawili nchini (1/42). Wala tusiwafunze hivi kinadharia tu na kuendelea na uhayawani wetu wa welekeo kuwa 1/1 kutokana na ukabila! Katika zaraa na Biolojia, wanafunzi waelekezwe vilivyo na kufahamu wanyama kwa sifa zao


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bainifu. Wafahamu kwamba ‘madoadoa’ ni sifa bainifu ya sampuli mahsusi ya wanyama wala si istilahi ya kuwarejelea watu walioselelea maeneo wasikokuwa ‘wenyeji’.

Huu uhayawani wa ‘kuwa’ au ‘kutokuwa’ mwenyeji mahali pake ni jehanamu! Ukiendelezwa ulimwenguni utazifanya enzi zetu kuwatamausha watu kuliko enzi za mkoloni mkongwe. Afadhali yeye akikumbuka kukuvuvia baada ya kukuuma; angalau kupunguza kero yako. Hawa wakoloni mamboleo hukuuma kasha wakakusimanga kimachomacho.

Nawarai wanajamii wote, tutumie fursa aali tulizo nazo kuwazindua watoto wetu ili wauambae unyanyapaa huu uliotulemaza. Tuuweke bayana ukweli kwamba mtaala mpana tulio nao haudhamiriwi tu kuwawezesha wapiti mtihani na kupata ajira. Unaazimia kukuza utangamano wa wanajamii ili kuboresha zaidi mazingira yao.

**Maswali**

1. Taarifa kwenye vyombo vya habari vina hitilafu gani? (alama 2)

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2. Unapolishuhudia tukio moja kwa moja unadhani unatazama uigizaji wa tamthilia. Fafanua kauli hii kwa mujibu wa taarifa hii. (alama 2)

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3. Somo la Stadi za maisha lina manufaa gani kwa mwanafunzi?(alama 2)

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4. Mwandishi anapendekeza nini katika ufundishaji wa Hisabati, Zaraa na Biolojia katika taarifa?(alama 2)

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5. Kwa mujibu wa kifungu ‘madoadoa’ ni kina nani? (alama 2)

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6. Unyama wa ‘kuwa’ au ‘kutokuwa’ mwenyeji mahali pake ni jehanamu! Thibitisha. (alama 2)

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7.Mtaala mpana tulio nao unadhamiria nini? (alama 1)

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8. Eleza maana ya maneno yafuatayo kama yalivyotumika. (alama 2)

(i) Kutagusana

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(ii) aali

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**SEHEMU C; SARUFI NA MATUMIZI YA LUGHA (ALAMA 40)**

1. Eleza maana ya

Mofimu (alama 2)

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2. Taja sauti zenye sifa zifuatazo. (alama 3)

(i) Kipasuo ghuna cha mdomo

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(ii) Kikwaruzo/kikwamizo cha koromeo

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(iii) Irabu ya nyuma kati.

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3. Bainisha kielezi katika sentensi hii. (alama 2)

Bi. Sinai alimtesa Bogoa kinyama.

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4. Andika neno lenye muundo ufuatao

Kiambishi cha umoja, mzizi (alama 1)

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5. Yakinisha. (alama 2)

Nisipompiku masomoni sitatuzwa zawadi.

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6. Andika katika wingi mbali kidogo. (alama 2)

Mtu yuyu huyu aliubeba mzigo uu huu licha ya kukanywa.

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7(i) Eleza maana ya:

Mzizi wa kitenzi (alama 1)

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(ii) fafanua aina mbili za mzizi wa kitenzi. (alama 2)

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8. Andika katika udogo umoja. (alama 2)



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Uso wake umeparara

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9. Ainisha fungutenzi. (alama 4)

Aliyesomea

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10. Nyambua kulingana na maelekezo kwenye mabano. (alama 2)

(i) iga (kutendesha)

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(ii) Vuka

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11. Tunga sentensi ambayo itatumia kihusishi cha wakati. (alama 2)

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12. Badilisha sentensi ifuatayo iwe katika usemi wa taarifa. (alama 3)

"Nitawatembelea kesho jioni" mgeni akasema.

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13. Onyesha matumizi ya lama ifuatayo ya kuakifisha. (alama 2)

Vifungo

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14. Onyesha miundo miwili inayojitokeza katika ngeli ya KI-VI. (alama 2)

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15. Eleza matumizi ya kiambishi Li katika sentensi zifuatazo. (alama 2)

(i) Alitembea:

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(iii) Tunda li mezani:

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(iii) Limeng'olewa:

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16. Akifisha. (alama 3)

umati njoo hapa nikutume sokoni mama akasema

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17. Sentensi zifuatazo ni za aina gani?(alama 3)

(i) Mwizi aliyetoroka ametiwa mbaroni.----------

(ii) Mama anapika chakula ilhali mtoto anadurusu.----------

(iii) Kiatu kipya kilinunuliwa jana.----------


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**SEHEMU D: ISIMUJAMII(ALAMA 10)**

Haya Basi, beba mmoja! Dada mmoja! Dada njoo. Nafasi ni ya mmoja. Ni mbao tu.

Bei ya chini kuliko keki, usiachwe bei ni poa."

(a) Fafanua sajili inayorejelewa na maneno haya. (alama 2)

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(b) Fafanua sifa nane za sajili hiyo. (alama 8)

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**SEHEMU YA E: FASIHI SIMULIZI (ALAMA 15)**

1(a) taja sifa tano za nyimbo katika Fasihi Simulizi. (alama 5)

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(b) Fafanua aina zifuatazo za nyimbo. (alama 3)

(i) Nyiso

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(ii) Kimai

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(iii) Wawe

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2. Kwa hoja nne, eleza umuhimu wa visasili (alama 4)

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3. Taja vipera vitatu ya semi (alama 3)

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# FORM 2 END TERM 2 REFLECTOR EXAMS

**FORM 2**

**MATHEMATICS**

**TIME: 2 $\frac{1}{2}$ HOURS**

**END OF TERM TWO EXAMINATIONS**

**INSTRUCTIONS TO CANDIDATES**

1. Write your name, admission number and school in the spaces provided.
2. This paper consists of two sections; **Section I** and **Section II.**
3. Answer ALL the questions in Section I and Section II.
4. All answers and working must be written on the question paper in the spaces provided below each question.
5. Show all the steps in your calculations, giving your answer at each stage in the space provided below each question.
6. Marks may be given for correct working even if the answer is wrong.
7. Non programmable silent electronic calculators and **KNEC** mathematical tables may be used except where stated otherwise.
8. Candidates should check the question paper to ascertain that all pages are printed as indicated and that no questions are missing.

FOR EXAMINERS USE ONLY

SECTION I

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

SECTION II

| **Question** | **17** | **18** | **19** | **20** | **21** | **TOTAL** |
|---|---|---|---|---|---|---|
| **Marks** | | | | | | |

**Grand Total**



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## SECTION I (50 Marks)

**Answer all questions in the spaces provided**

1. Evaluate

$$\frac{-3(4+2)-8\div 4+3}{-2\times -4+-6\times 5}$$

(3 marks)

2. Find the value of x, which satisfies the equation.

$$16^{x^2} = 8^{4x-3}$$

(3 marks)

3. Evaluate; (3 marks)

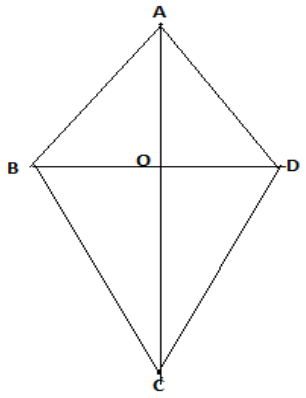
$$14\div\frac{1}{3}of\ 5\frac{1}{4}-3\frac{3}{4}\times 1\frac{1}{3}$$

4. Find the length of a square whose diagonal is 8cm to one decimal place (3 marks)



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5. The figure below represents a kite ABCD, AB = AD = 15cm. The diagonals BD and AC intersect at O, AC = 30cm and AO = 12cm.




Find the area of the kite. (3 marks)

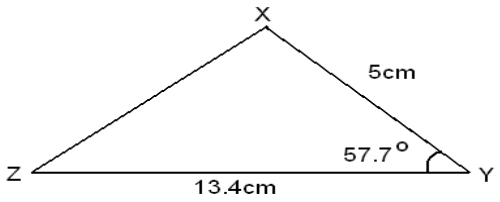
6. Using logarithm tables evaluate; (4 marks)

$$\sqrt[3]{\frac{4.684 \times 2.497}{\tan 87°}}$$


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7. A straight line L passes through the point (3, -2) and is parallel to a line whose equation is $2y - 4x = 1$. Find the equation of line L in the form $y = mx + c$. (3 marks)

8. . The figure below is a triangle XYZ. ZY = 13.4cm, XY = 5cm and $\angle XYZ = 57.7°$




Find the area of triangle XYZ. (3 marks)

9. Using a ruler and a pair of compass only, construct a parallelogram ABCD such that $AB = 8\ cm$, $BC = 6\ cm$ and angle $ABC = 135°$. (3 marks)


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10. Write the following as a single fraction (3 marks)

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

11. Calculate the length of an arc of a circle radius 14cm that is subtended by an angle $22.5^{0}$ at the centre (3 marks)

12. Given that $\cos A = {}^{5}/_{13}$ and angle A is acute, find the value of $2\tan A + 3\sin A$. (3 marks)


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13. Two similar containers have base areas of $750\ cm^2\ and\ 120\ cm^2$ respctively.

a) Find the ratio of their radii (1 mark)

b) Find the ratio of their volume. (1 mark)

c) Calculate the volume of the larger container if the volume of the smaller container is $400cm^3$ (2 marks)

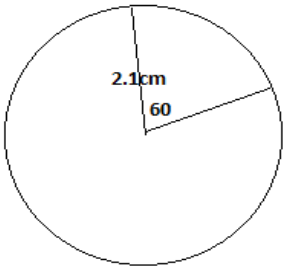
14. A plane leaves town P to town Q on a bearing of 130° and a distance of 350 km. it then flies to town R 500km away and on a bearing 060°. Find by scale drawing the distance of R from P (3 marks)


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15. Simplify the expression; (3 marks)

$$\frac{2t^2 - 3pt - 2p^2}{4t^2 - p^2}$$

16. If O is the center of part of the circle shown below, find the area of the figure (3 marks)




**SECTION II (50 Marks)**

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

17. Saleswoman is paid a commission of 2% on goods sold worth over Ksh 100 000. She is also paid a monthly salary of Ksh 12 000. In a certain month, she sold 360 handbags at Ksh 500 each.

    a. Calculate the saleswoman's earnings that month. (3 marks)


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b. The following month, the saleswoman's monthly salary was increased by 10%. Her total earnings that month were Ksh 17 600.
Calculate

i) the total amount of money received from the sales of handbags that month; (5 marks)

ii) The number of handbags sold that month. (2 marks)

18. A triangle whose vertices are $A'(-2,-2)$ $B'(-4,-1)$ and $C'(-3,1)$ is an image of a triangle whose vertices are $A(1,1)$, $B(2,3)$ and $C(4,2)$ under a rotation.
a) On the grid below, draw the $x$ and $y$ axes such that values of $x$ range between $-6\ and\ 6$ and values of $y$ range between $-7\ and\ 3$. (1 mark)

**Provide a graph paper**

b) Draw the triangles ABC and $A'B'C'$ on the same axes. (2 marks)

c) Hence determine the centre and angle of rotation. (4 marks)

d) $A''B''C''$ is the image of $A'B'C'$ under enlargement centre $(-2, 3)$ and scale factor 2. Draw $A''B''C''$ and state its coordinates. (3 marks)


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19. A small cylinder of radius 3.5cm and height 10 cm has a mass of 385 kg , Calculate

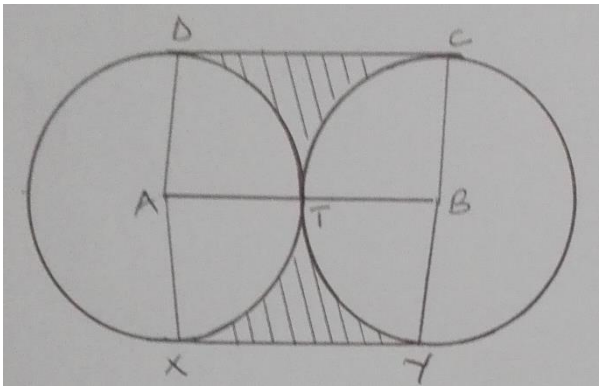
a) The volume of the cylinder in $m^3$ ( $Take\ \pi = \frac{22}{7}$) (3 marks)

b) The density of the materials making the cylinder in kg/$m^3$ (2 marks)

c) The cylinder was melted and the molten materials recasted into four identical cuboids each of a square base of side $x\ cm$ and height 10cm. Determine the value of $x$ to 4 significant figures. (5 marks)


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20. The figure below shows two circles each of radius 10.5 cm with centres A and B. the circles touch each other at T.




Given that $angle\ XAD = angle\ YBC = 160°$ and lines XY, ATB and DC are parallel. Calculate the area of:

a) The minor sector AXTD (2 marks)

b) Figure AXYBCD (6 marks)

c) The shaded region (2 marks)


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21. A glass of radius 3 cm in the form of a cylinder contains water to a height of 9 cm.
    a. Find the volume of the water in the glass correct to 2 decimal places in cubic centimetres. (2 marks)

    b. When a spherical marble is submerged into the water in the glass, the water level rises by 1 cm.
       Calculate;
        i. The volume of the marble correct to 2 decimal places. (2 marks)

        ii. Radius of the marble correct to 2 decimal places. (3 marks)

        iii. If the height of the glass is 13 cm, calculate the surface area of glass not in contact with water after the above process. (3 marks)


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# FORM 2 END TERM 2 REFLECTOR EXAMS

**232**

**PHYSICS FORM 2**

**END TERM 2**

**TIME 2 HRS**

**INSTRUCTIONS**

i) Answer All questions in the spaces provided.

ii) Use the following CONSTANTS where applicable.

iii) All working must be clearly shown for numerical questions.

iv) Candidates should check to ascertain that all questions and pages are available.

**Constants**

i) Density of water = 1g/cm3 or 1000kg/$m^3$.

ii) Gravitational acceleration = 10m/$s^2$.



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## SECTION A (50MARKS)

1. 50 drops of a liquid were released from a burette which was originally reading $22cm^3$ to give a new reading of $56cm^3$. Calculate the volume of each drop. (2mks)

2. (a) State two factors that affect surface tension. (2mks)

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(b) Figure 3 below shows a funnel dipped into a liquid soap solution.

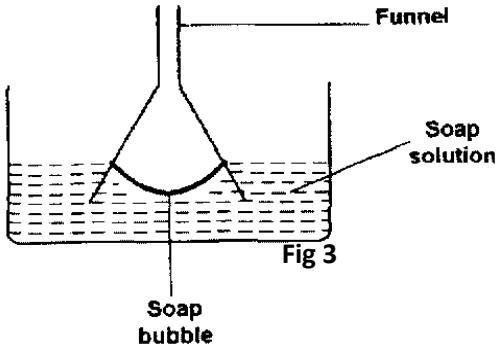



Fig 3

Explain what happens to the soap bubble when the funnel is removed. (1mk)

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3. State **one** defect of a simple cell and how it can be minimized. (2mrks)

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4. State the property of light associated with formation of shadows (1mk)

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5. (i) State the basic law of electrostatics. (1mk)

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ii) List down four uses of electroscope. (4mk)

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(iii) In testing for the sign of charge on a body, state and explain the behavior of a positively charged electroscope when negatively charged body is brought closer to the cap of the electroscope. (2mks)

6. a) Define electric current. (1mk)

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b) A current of 0.25A is flowing through a lamp. Find the time it will takes for 75C of charge to pass through the lamp. (3mks)



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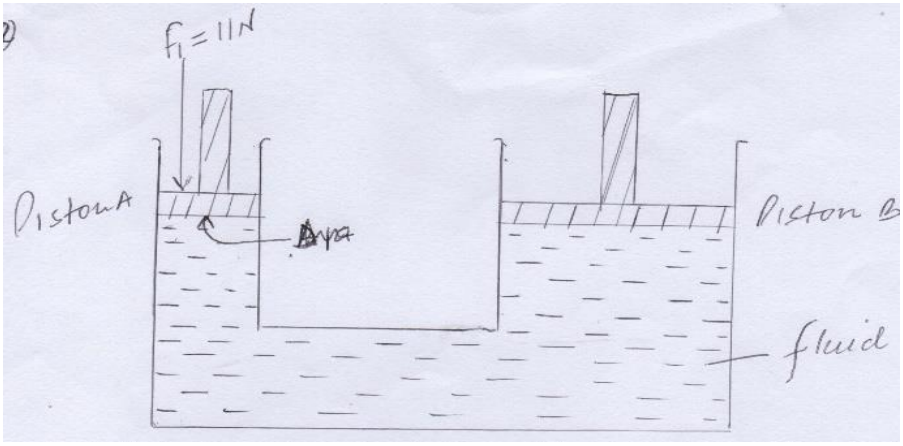
7. a) State the principle of transmission of pressure. (1mk)

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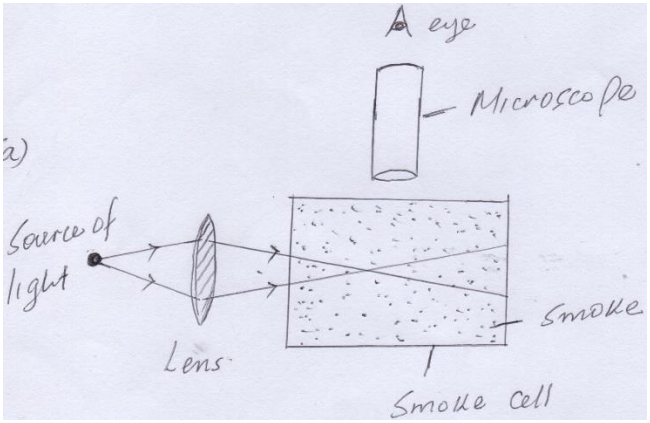
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b) In the figure below piston A has area of 12.25cm$^2$ while piston B has an area of 196cm$^2$. If a force of 11N is exerted on piston A, calculate the force exerted on piston B. (3mks)




8. a) The figure below show a microscope M focused on smoke particles inside a glass container.




i) Explain what is observed. (2mks)

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ii) What change is observed to the movement of smoke particles when temperature is increased. (1mk)

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9. State three differences between alcohol and mercury as thermometric liquid (3mks)

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10. a) Differentiate between scalar and vector quantity. Give one example of each. (4mks)

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b) Two forces 6N and 8N acts on a body at right angle. Draw the two forces acting on the body and find the resultant force diagrammatically. (4mks)



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11. In a vacuum flask the walls enclosing the vacuum are silvered on the inside. State the reason for this. (1mk)

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12. Explain how physics is related to the following subject.

i) Mathematics (1mk)

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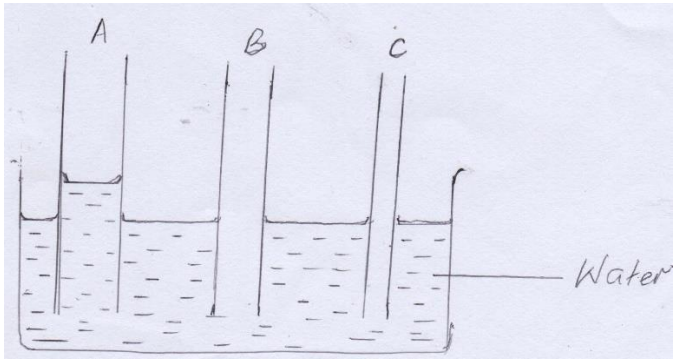
ii) History (1mk)

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13. The diagram below shows three glass tubes A, B and C of different diameters dipped in water. The level of water in A is indicated.




i) Mark the appropriate levels of water in B and C. (2mks)

ii) Explain your observations. (2mks)

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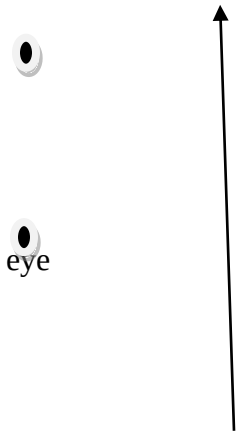
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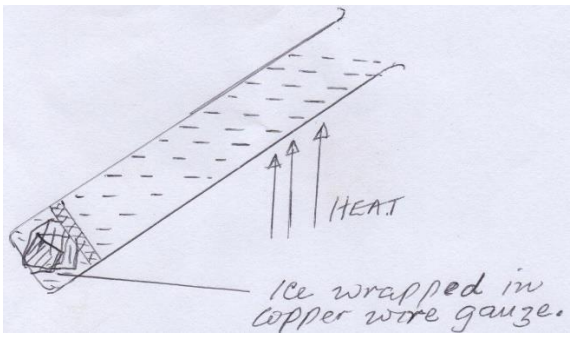
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14. The diagram below shows a plane mirror, an eye and an object.




complete the ray diagram to show the position of the image. (3mks)

15. A form one student conducted experiment in the laboratory.




water was heated as shown until it started boiling at the top.

i) What is the purpose of the wire gauze? (1mk)

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ii) What was observed on the ice. (1mk)

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iii) What was the aim of the experiment? (1mk)

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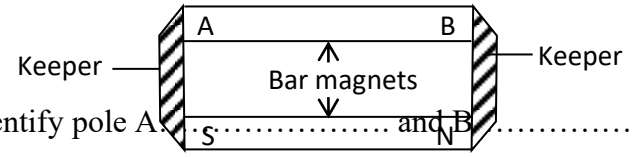
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16. A uniform mixture consists of $30cm^3$ of water and $40cm^3$ of ethanol. If the densities of water and ethanol are $1g/cm^3$ and $0.85g/cm^3$respectively. Determine the density of the mixture. (4mks)

## SECTION B (50 MARKS)

17. State the basic law of magnetism. (1 mark)

(b) The figure **below** shows how magnets are stored in pairs with keepers at the ends.




Identify pole A …S…… and B ……N…….. (2 marks)

c) Explain why soft iron keepers are suitable for storing magnets (2mks)

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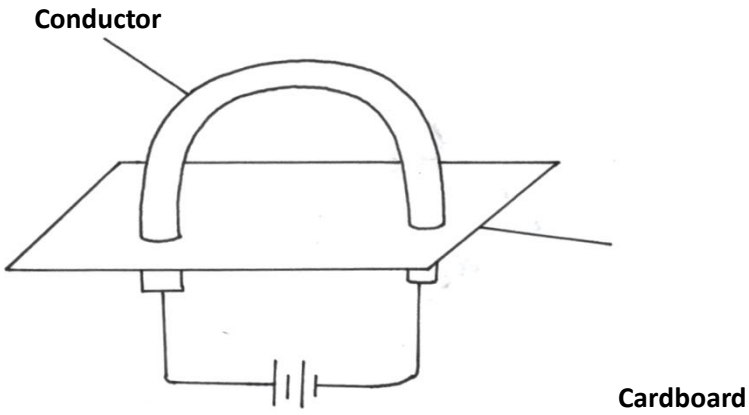
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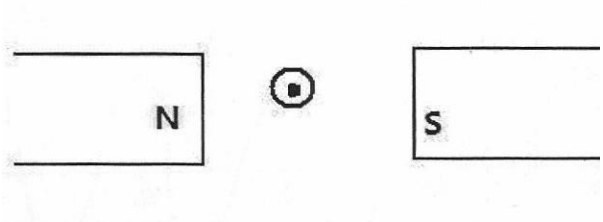
d) Figure below shows a current carrying conductor. Indicate the direction of current in the conductor hence the magnetic field pattern. (2mks)



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e) Figure below shows a conductor carrying current placed in the magnetic field of two magnets. Complete the diagram by showing the field pattern and the direction of force F that acts on the conductor (2mks)




f) State 3 factors that affect the strength of electromagnet. (3mks)

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18. (a) (i) Define the term center of gravity of a body. (1mk)

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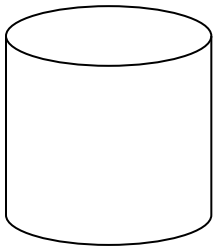
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(ii) Locate the C.o.g. of the cylinder shown below. (1mk)



iii) State two factors affecting stability of the body. (2mks)

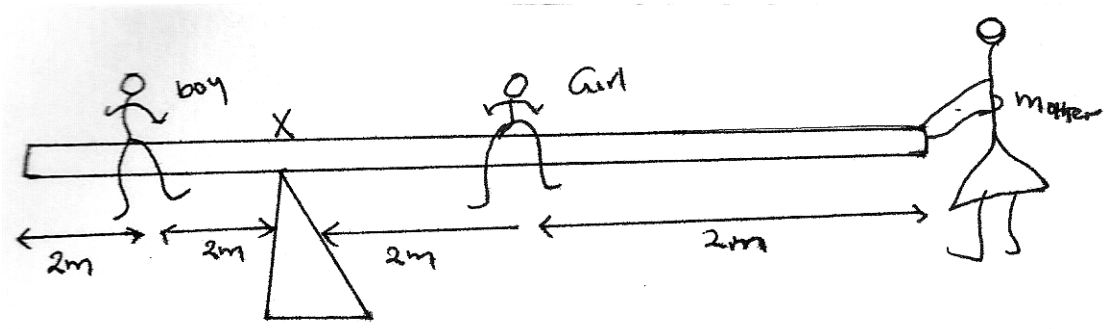
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b) The figure below shows a boy and a girl on playground seesaw. The seesaw has a mass of 30kg and is pivoted at its centre. Their mother has to hold the girl's end in order to keep the seesaw level. The boy's mass is 50kg and the girl's mass is 30kg. All the distances are shown on the diagram.




Calculate:

(i) The turning effect of the boy's weight about point x. (1mk)

(ii) The turning effect of the girl's weight about x. (1mk)



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(iii)The force their mother must apply on the end of the seesaw in order to keep it level. (2mks)

(iv)The total downward force in the central support of the seesaw. (2mks)

19. a) State Hookes law. (1mk)

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b) i) A rubber chord of elastic constant 200N/m support an object of mass 400g. the object is then pulled down by an extra force of 1.6N. calculate the total extension of the rubber (3mks)

ii) Two springs of elastic constant 400N/m are arranged in series and a load of 500g is suspended from the combination at the lower end. Find the extension of the combination. (3mks)


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c) Sketch a graph of force against extension for material that obeys Hookes law(2mks).

20. a i) Distinguish between concave and convex mirrors. (2mks)

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iii) State one application of each of the following.

I) Convex mirror (1mk)

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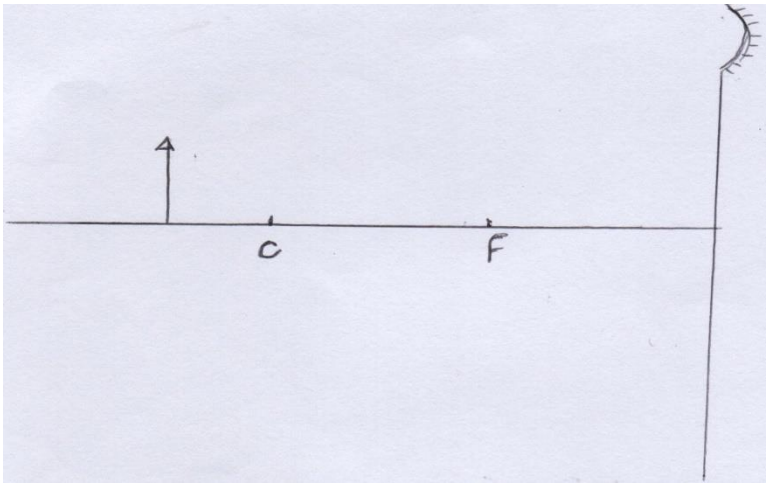
II) Parabolic mirror (1mk)

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b) An object O is placed in front of a concave mirror as shown in the figure below.






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i) Complete the diagram to show the position of the image. (3mks)

ii) State two properties of the image formed. (2mks)

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c) An object is placed 30cm from a concave mirror of focal length 20cm. calculate the position of the image. (3mks)

21. In an experiment to estimate the size of an oil molecule, an oil drop of diameter 0.05cm spreads over water to form a circular path whose diameter is 15cm.

Determine:

(i) Volume of the drop. (2mrks)

(ii) Area of the patch (2mrks)

(iii) Size of the oil molecule (2mrks)



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