FRM 1 ENDTERM 1 EXAM

ALL SUBJECTS

SERIES 2
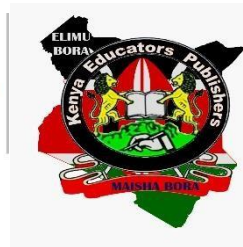
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KENYA EDUCATORS CONSULTANCY

FORM 1 END TERM 1 SET 2 EXAM 2023

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GRAND TOTAL

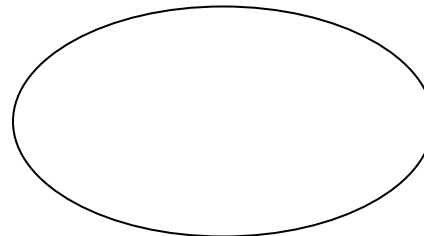**AGRICULTURE FORM ONE**

DURATION-1HR 30 MIN (70 Marks)

Instructions: Answer all questions in the spaces provided

1. Define the following   *(6mks)*

A) Agriculture

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b)Floriculture…………………………………………………………………………………………………
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c)Apiculture…………………………………………………………………………………………………
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2.   Giving examples, explain why agriculture is both an art and science   *(6mks)*

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3.   Why is agriculture very important to the economic development of Kenya   *(5mks)*

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4.   Name and explain three methods of farming   *(6mks)*

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5.   Give the difference between the following

a) Olericulture and pomology   *(2mks)*

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b) Intensive farming and extensive farming   *(2mks)*

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c) Pastoralism and aquaculture   *(2mks)*

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d) Plantation farming and ranching   *(2mks)*

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e) Small scale and large scale farming   *(2mks)*

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6. What are the advantages of shifting cultivation   *(3mks)*

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7a) what is soil profile?   *(2mks)*

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b) Below is a diagram of soil profile, label the parts A to E   *(5mks)*
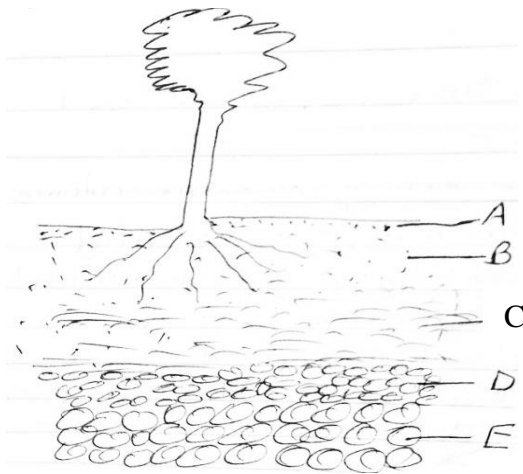
8. Name four aspects of rainfall that influence agriculture   *(4mks)*

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9. Name four factors that influence soil formation   *(4mks)*

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b) Name the three agents of weathering   *(3mks)*

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10. Name the biotic factors that influence agriculture   *(4mks)*

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11. State the effects of HIV/ AIDS on agriculture   *(4mks)*

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12. Match column A to the correct answer in column B   *(4mks)*

A	B
1)Domestication	Deals with the use and maintenance of farm tools machinery and structures
2)Crop pathology	Production of crops on cultivated land

3) Crop farming	When crops and animals become dependent to man for existence
4) Agricultural engineering	Study of crop diseases

b) Name the constituents of soil   *(4mks)*

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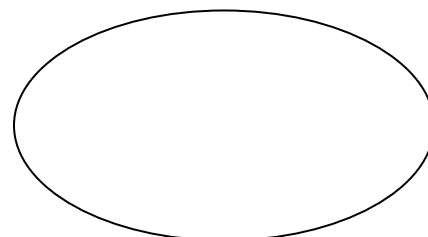
BIOLOGY
FORM 2
TIME: 2 HOURS

Answer all the questions in the spaces provided.

1. With reference to the term Biology, state the meaning of the following:-   *(2 mks)*
    (i) bios –

    (ii) logos –

2. State the two major branches of Biology and give their meaning.   *(4 mks)*

3. Complete the table below by giving the meaning of the terms: *(5 mks)*

Branch of Biology	Meaning
Microbiology	
Anatomy	
Physiology	
Entomology	
Cytology	

4. Outline four benefits of study of biology. *(4 mks)*

5. With reference to characteristics of living organisms complete the table below. *(8 mks)*

Characteristic	Definition/Meaning
Reproduction	
Movement	
Excretion	
Nutrition	
Respiration	
Growth and development	
Gaseous exchanges	
Irritability (Responsiveness)	

6. State the importance of the following in living organisms. *(6 mks)*
   (i) Reproduction –

   (ii) Movement –

   (iii) Excretion –

7. Explain how plants and animals differ with reference to the following characteristics.
   (10 mks)

   NB: Marks are linked in each characteristic.

(i) Nutrition	Plants	Animals
(ii) Irritability		
(iii) Growth		
(iv) Excretion		
(v) Movement		

8. Explain how the following apparatus are used in collection and observation of specimens.

(6 mks)

(i) A pooter –

(ii) A bait trap –

(iii) A pit fall trap –

(iv) A fish net –

(v) A sweep net –

(vi) Pair of forceps –

9. (a) Define the following terms: *(2 mks)*
   (i) Taxonomy –

   (ii) Taxonomic units –

   (iii) Outline the seven taxonomic units of classification from the largest to the smallest.

(7 mks)

(b) Complete the table below kingdoms should be in the order of simplest to most complex

organisms.   *(10 mks)*

	Kingdom	Example of organism
(i)		
(ii)		
(iii)		
(iv)		
(v)		

10. (a) Identify the organisms shown in the photographs.   *(3 mks)*
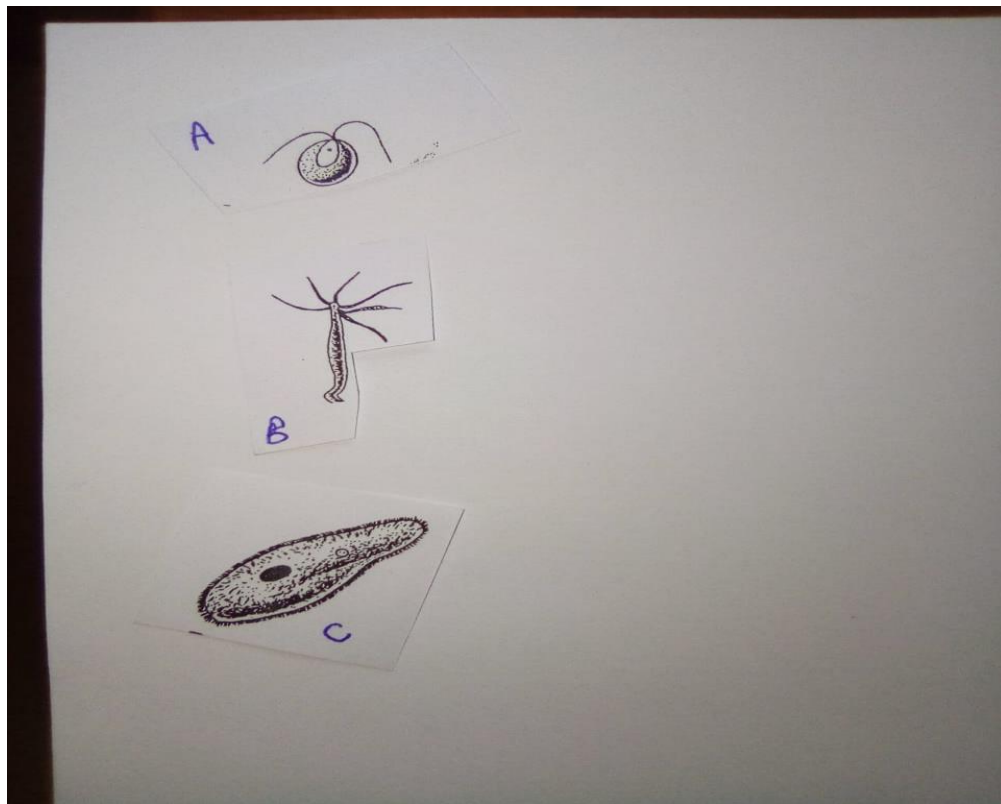
A –

B –

C –

(b) If fish in diagram A is the drawing of object B, calculate the drawing magnification.
(3 mks)

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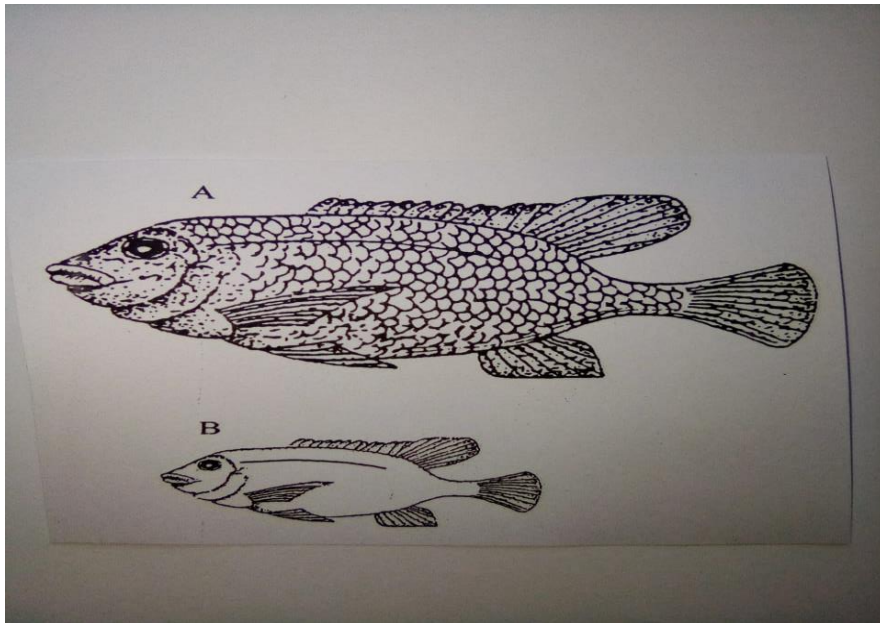
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GRAND TOTAL

BUSINESS FORM ONE

DURATION. 1HR 30 MIN

Instructions: answer all questions (70 marks)

1. State four discipline in business studies **(4mks)**

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2. Identify four importance of learning business studies to an individual **(4mks)**

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3. State five business activities that are likely to be carried out in an economy. **(5mks)**

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4.   A resource is something that can be used to achieve an objective. Highlight four types of a resources in a business.   *(4mks)*

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5.   Outline five external business environments that's affect business activities.   *(5mks)*

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6.   State four social responsibility of a business to her employees   *(4mks)*

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7.   State five characteristics of human wants   *(5mks)*

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8.   Outline five characteristics of economic resources   *(5mks)*

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9.   Highlight any five differences between good and services   *(5mks)*

Goods	Services

10.   State four characteristics of basic wants   *(4mks)*

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11. Differentiate between renewable resource and non-renewable resource in each of the following *(5mks)*

i)Wood …………………………………………………………………………………………………

ii)
Gravel……………………………………………………………………………………………………
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iii)Lead

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iv)Soda ash

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v) Wool

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12. State four forms of utilities *(4mks)*

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13. State four natural sources of energy available in Kenya *(4mks)*

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14.   Outline three classification of economic resources   *(3mks)*

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15.   Differentiate between comforts and luxuries giving example in each case   *(4mks)*

Comforts……

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Wants………

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16.   The table below contains descriptions of different types of goods produced in a company.

Indicate   with a tick whether it is a produce or a consumer good   *(5mks)*

Description	Consumer	Producer
a)A TV bought by a family		
b)A water dispenser bought by a company		
c)A pair of shoes		
d)A ream of foolscaps for an office		

e)A photocopier bought by a school		

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GRAND TOTAL

CHEMISTRY FORM 1
TIME: 1HR 45 MIN
TIME:
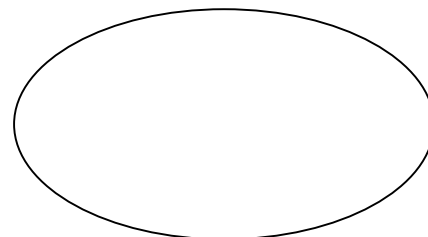
ANSWER ALL THE QUESTIONS

1a. What is chemistry?   *(1mk)*

b. State two roles of chemistry in our society?   *(2mks)*

2. Outline any five laboratory safety rules   *(5mks)*

3a What is a flame?   [1mk]

b. The following diagram represents a non – luminous flame of a Bunsen burner.

A

B

C

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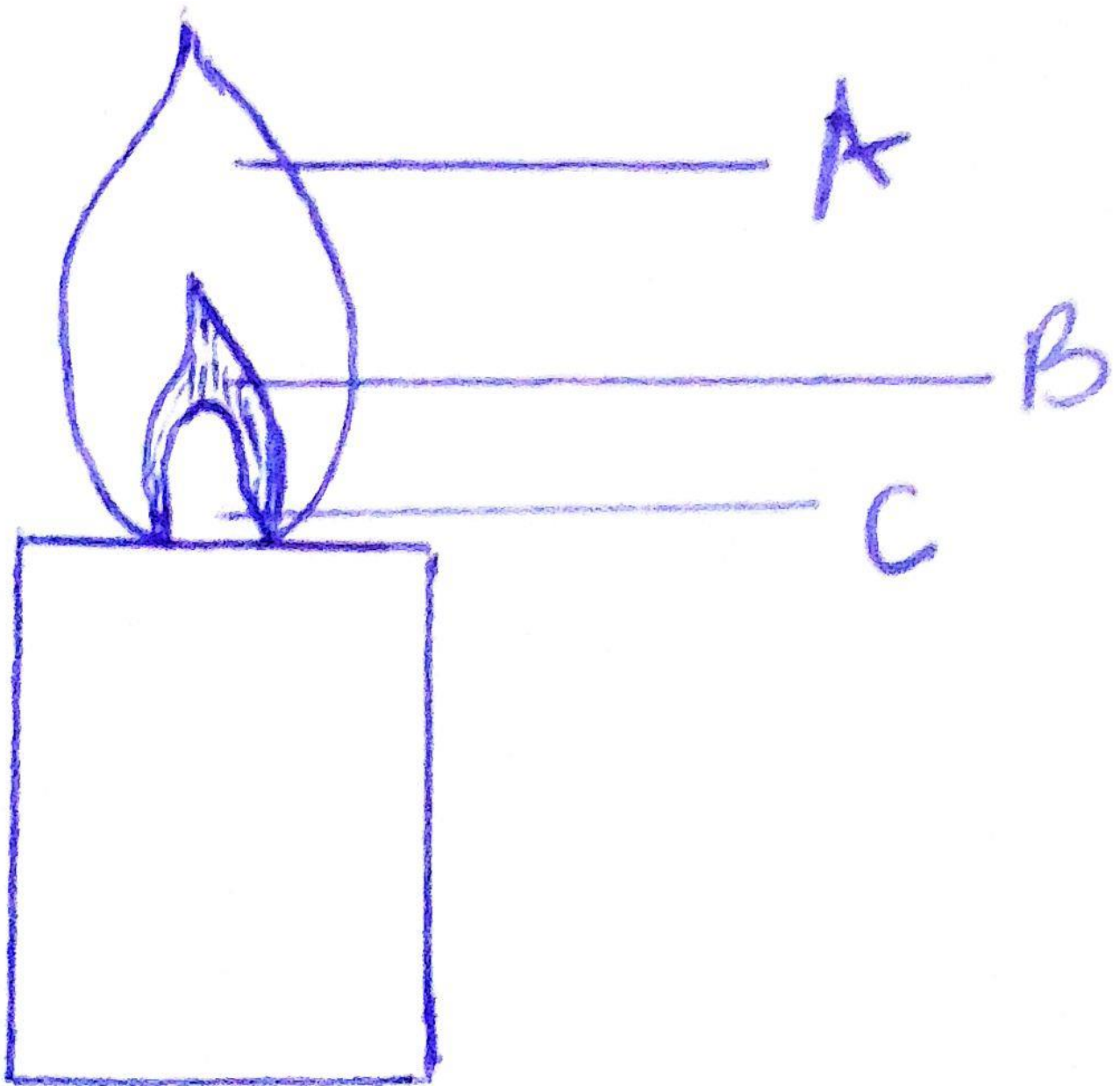
(i)   State the colour of the parts of the flame labelled A,B and C   **(3mks)**

(ii)   Which of the parts in (i) above is the hottest?   **(1mk)**

(iii)   Why is non-luminous flame preferred for heating?   **(2mks)**

(iv)   a. Name the other type of flame produced by the Bunsen burner.   **[1mk]**

b. Under what condition does the bunsen burner produce the flame you named in (a) above
(1mk)

4a. Explain why most laboratory apparatus are made of glass.   **(4mks)**

b. Identify the following laboratory apparatus (3mks)
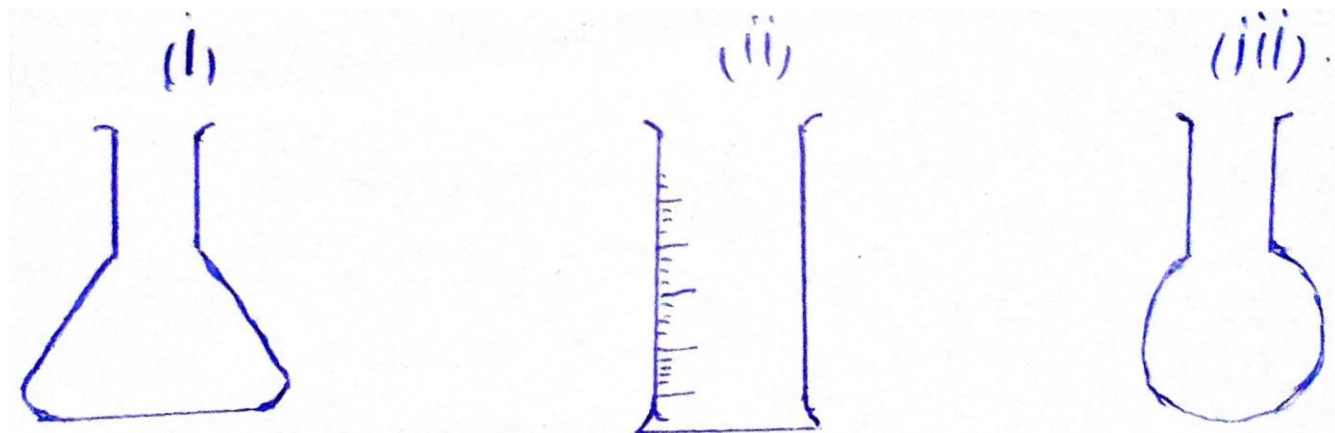
5a. Define matter.   **(1mk)**

b. Give 3 states of matter.   **(3mks)**

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c. Identify the physical process in the diagram below.   *(6mks)*
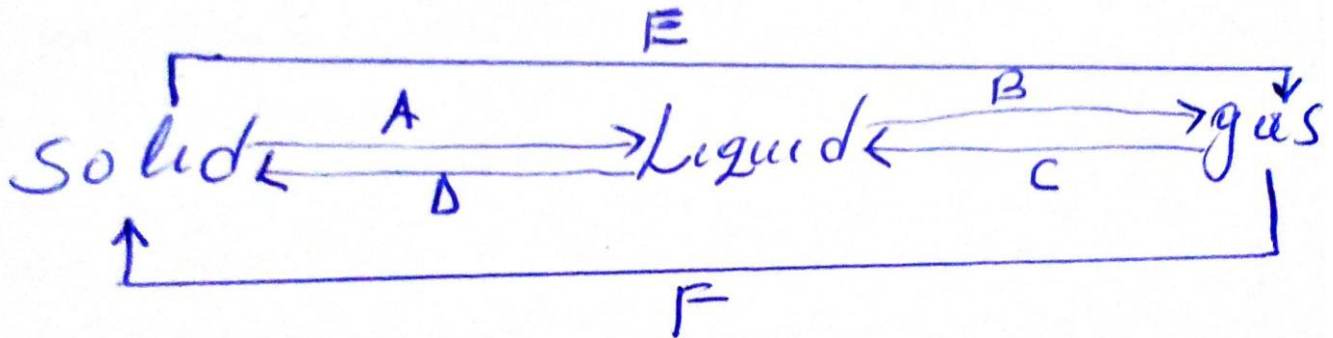
A   D
B   E
C   F

 d. State the differences between solid, liquid and gases   *(3mks)*

6a. identify the laboratory apparatus below and label the parts.   *[6mks]*

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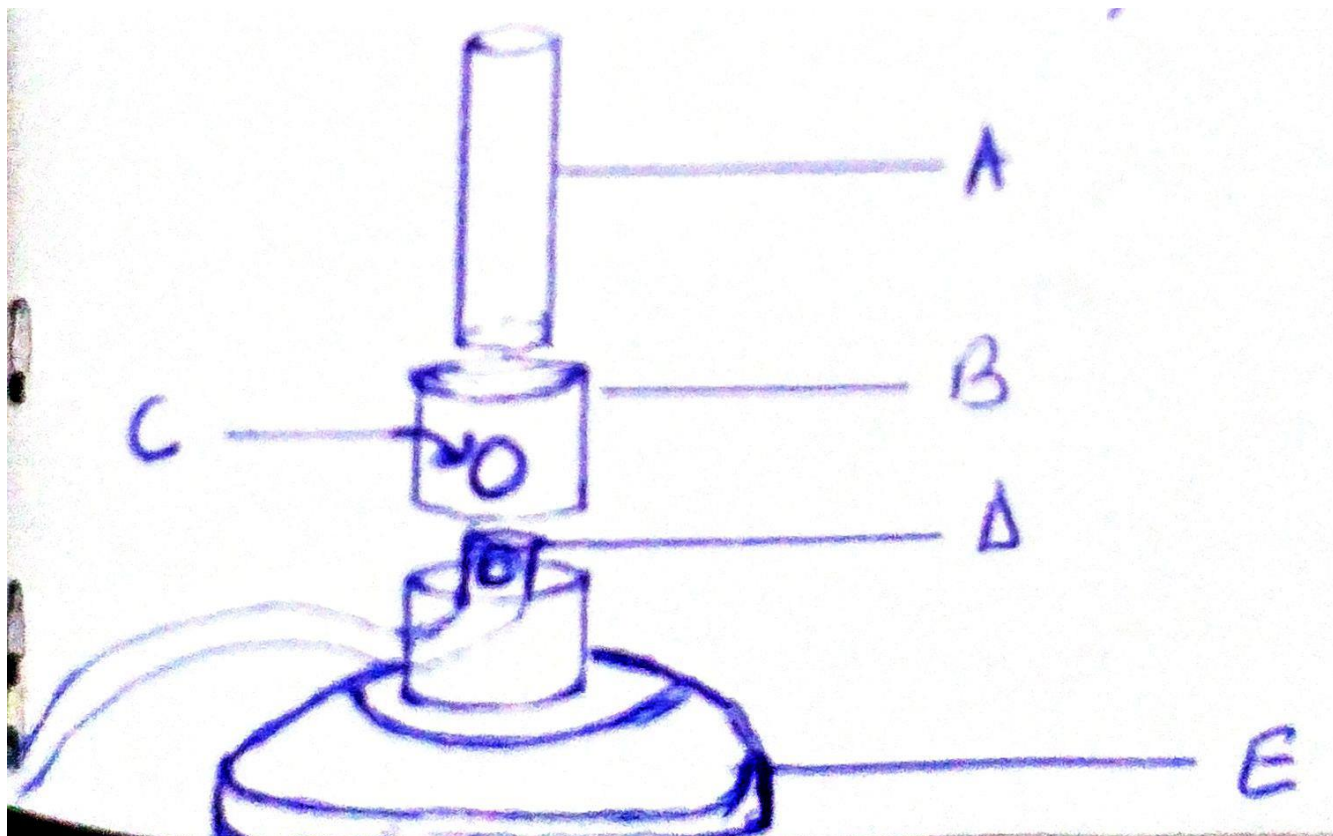
7a. Define the following terms
   (i)   mixture   *(1mk)*

   (ii)   Compound   *(1mk)*

   (iii)   Element   *(1mk)*

 b. Name 2
       (i) Mixtures   *[2mks]*

       (ii) Compounds   *[2mks]*

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    (iv)   Elements   *[2mks]*

c. List three differences between temporary and permanent changes.   *(3mks)*

d. Give three examples of:
(i) Temporary physical change   *(3mks)*

(ii) Permanent change   *(3mks)*

e. what are the chemical symbols of the following elements:
(i) Copper

(ii)Sodium

(iii)Potassium

7a. Name the elements present in the following compounds.   *(6mks)*
    (i)   Iron Sulphide

    (ii)   Copper (ii) Sulphate

    (iii)   Sodium Sulphite

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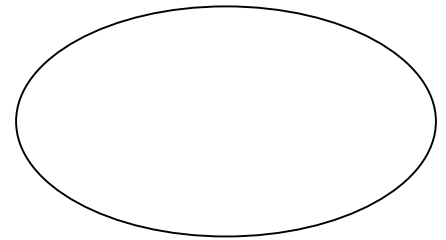
COMPUTER STUDIES,

INSTRUCTIONS: ANSWER ALL THE QUESTIONS

TIME: 2HOURS

1. Define the following terms
   Computer   *(2mks)*

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   ………………………………………………………………………………………
   ………………………………………………………………………………………

   Data   *(2mks)*

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   Information   *(2mks)*

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   Processing   *(2mks)*

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Program   *(2mks)*

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2. State the different physical parts that make up a computer.   *(4mks)*

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3. Why is a mobile phone regarded to be a computer?   *(5mks)*

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4. State and explain 4 characteristics of a computer.   *(4mks)*

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5. State three ways computers are classified.   *(3mks)*

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6. Why the screen is also called monitor? *(3mks)*

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7. Match the following generations of computers with the technology used to develop them. *(4mks)*
   a. First generation   Very large scale integrated circuits
   b. Second generation   Thermionic valve (vacuum tubes)
   c. Third generation   Transistors
   d. Fourth generation   Integrated circuits

8. Identify five areas where computers are used. *(5mks)*

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9. What were the characteristics of the first generation computers?

(6mks)

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10. Who developed the analytical engine?

(2mks)

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11. Define the term artificial intelligence.

(4mks)

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12. With the aid of a diagram differentiate between tower and desktop types of
    system unit.   (6mks)

13. Write the following acronyms in full:

(6mks)

   a. ENIAC

   b. VLSI

   c. IC

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4 | P a g e

14. Match the following computer application areas with the role played by computers in each case:

<div align="right">*(8mks)*</div>

A. Supermarket   Matching fingerprints
B. Hospital   Entertainment
C. Bank   Stock control
D. Hotel   Booking Rooms
E. Home   Analyzing academic data
F. School   manufacturing process control
G. Industry   Life support machines
H. Police station   Processing cheques

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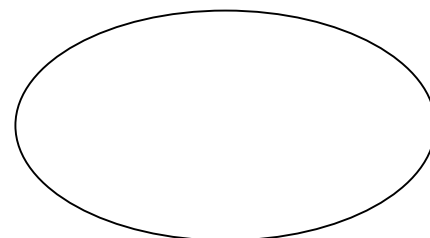
FORM ONE C.R.E

TIME: 1HR 45MINS

ATTEMPT ALL QUESTIONS.

1. Outline the importance of learning Christian Religious Education in Secondary Schools. **(7mks)**

2. Trace the translation of the Bible from the original languages to local languages in Kenya. **(7mks)**

3. Giving examples, state five literacy forms used by the authors of the Bible. **(5mks)**

4. State any five books of the apocrypha. **(5mks)**
5. Identify the effects of Bible translation **(6mks)**

6. Identify reasons why Christians find it difficult to read the Bible. **(6mks)**

7. Identify six occasions when Christians use the Bible. **(6mks)**

8. State six responsibilities given to Human beings in genesis 1 and 2. **(6mks)**

9. Identify four differences in the two accounts of creation in Genesis 1 and 2. **(8mks)**

10. State the Attributes of God as portrayed in Genesis story of creation. **(8mks)**

11.State the consequences of sin according to Genesis chapter 3. **(6mks)**

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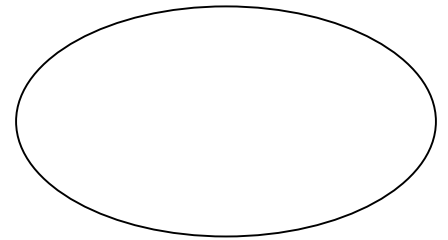
ENGLISH

END OF TERM ONE

TIME: 2 HOURS

1. <u>FUNCTIONAL WRITING</u>   *(10 MARKS)*

Write a letter to your parent at home informing him/her how life is in your new school.

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

Fill in the blank spaces with the most appropriate word.

Excessive consumption (1)_____alcohol is a big problem in our society today. Unfortunately, many people are not (2)_____of its many negative effects. It can adversely affect us physically, socially (3) _____economically.

Let us consider what alcohol (4)_____to your health. Although alcohol has a high level of calories, it does not contain nutrients.

Actually, (5)_____interferes with absorption of nutrients in the body system. (6)_____ you consume alcohol, there is the likelihood (7)_____being malnourished. Moreover, it has been established that alcohol encourages the development of cancer of the pancreas and the stomach.

1

In addition, consuming alcohol, even if lightly, in pregnancy, can (8)_____ physical and mental retardation of the unborn child. Alcohol also causes a fatal damage of the liver called cirrhosis. Since the liver is a main (9)_____organ, damages to it disrupts (10)_____ body processes.

3. **ORAL LITERATURE**   *(20 MARKS)*
   Read the narrative below and answer the questions that follow.
   Once upon a time, some girls went for a dancing competition in a distant village. There were many young men there but one young man was outstanding. He was very handsome and danced very well.
   At the end of the dance, the young man rose to go home. Several girls followed him. Suddenly, one girl saw a mouth open at the back of his head and catch an insect. She was frightened and decided to go back home. After some time, another girl saw the same thing happen. She, too, turned and went back home. This went on until only one girl called Nyokabi remained. By now it was almost daylight. Soon they came to a big river.
   'Wait for me here while I go to the bush,' the young man said. When the young man came back, he had turned himself into a huge ogre. Nyokabi could not run away because her legs were weak with fear. The ogre had a long tail and one big eye on the forehead.
   'Now I will take you home and eat you,' the ogre told Nyokabi as he carried her in one hand across the river to his house.
   The ogre locked her in his house and went to call other ogres for a feast. In the meantime, the other girls had got home and told Nyokabi's family what had happened. Her elder brother, Matheri, took a spear and after getting directions from the girls and went to rescue his sister.

   Questions
   i.   Classify this narrative and give the reason for your answer. *(2 marks)*

   ii. Name other three types of narratives in oral literature.   *(3 marks)*

iii. What are the three reasons for studying literature? *(3 marks)*

iv. Why was one of the girls so frightened and decided to go home? *(2mks)*

v. What did the young man turn into when he came back and how did he look like? *(2marks)*

vi. Why was Nyokabi unable to run away? *(2 marks)*

vii. Give one character trait of Matheri in the narrative. Give reason for your answer. *(2 marks)*

viii. Identify the opening formula in the narrative above. *(1 mark)*

ix. Give other words that mean the same as the ones below.
   (3marks)

   a) Frightened

   b) Feast

   c) Outstanding

4. **ORAL SKILLS** *(15 MARKS)*

(a) **Provide a word that is pronounced the same as the words below.**

(5mks)

    i)   Flower-
    ii)   Air-
    iii)   Dear-
    iv)   Sent-
    v)   Nun-

(b) **Identify the silent letter in the following words**

(5mks)

    i)   Sachet
    ii)   Debris
    iii)   Gnaw
    iv)   Mortgage
    v)   Heir

(c) **Complete the dialogue below with the most suitable polite phrases.**

(5 marks)

Student: ………………………………………… get in?
Teacher: Good morning Amollo. You may get in.
Student: ………………………………..for allowing me in.
Teacher: Feel free. Any problem?
Student: ……………………………………………. I did not collect my books as others did.
Teacher: You are forgiven, but make sure you don't repeat this next time.
Student: ………………………………….again, sir. I promise.

5. **GRAMMAR** *(15 MARKS)*

(a)   **Indicate the type of each underlined noun in the following sentences** *(3 marks)*
  i.   <u>Jomo Kenyatta</u> was the first president in Kenya.

  ii.   A <u>teacher</u> is walking to school.

  iii. I have an <u>idea</u> on how to solve the matter.

4

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(b) **Complete the sentences by filling in the blanks with a, an, or the.** *(3 marks)*

  i.   Jane is ………………………. honest girl.

 ii.   Peter is …………………………. tallest in our class.

iii.   …………….poor have a right to education.

(c) **Use the correct form of the word in brackets to fill in the blank spaces.**

(3 marks)

i)   Who ……………………. the class yesterday. (sweep)

ii)   My son ………………………… to school every day and he says he enjoys it.
(walk)

iii)   The mother had ………………… to the market when the baby started crying.
(go)

(d) Choose the correctly spelt words to complete the sentences below.   *(3 marks)*

  i.   The word is *misspelt/mispelt*.

 ii.   Why this sort of *argument/agument*.

iii.   The *pronunciation/pronounciation* of English words is sometimes difficult.

(e) Re-write the following sentences correctly.   *(3marks)*

    i)   An orange fell on Jack while he was sitting under the shade of the mango
           tree.

    ii)   Take care you do not loose your purse.

    iii)   "My names are Joseph Mwangi," said the young man.
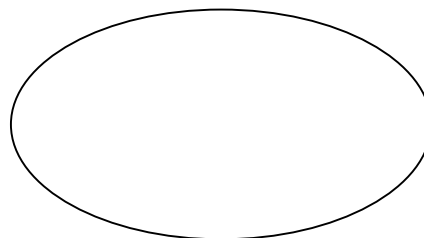
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GRAND TOTAL

HISTORY AND GOVERNMENT
TIME: 2 HOURS

ANSWER ALL QUESTIONS IN THE SPACE PROVIDED

SECTION A (20 MARKS)

1. Define the following terms:
   i.   History   *(2mks)*

   ii. Government   *(2mks)*

   iii. Stone age   *(2mks)*

   iv. Agriculture   *(2mks)*

2. Identify **Three** aspects of history that you have studied   *(3mks)*

3. Give **three** importance of studying:
   i. History   *(3mks)*

   ii. Government   *(3mks)*

4. State three theories that explain the origin of human beings   *(3mks)*

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SECTION B (50 MARKS)

5. Give **five** limitations of using oral tradition as a source of information in history & government.

(5mks

6. How does an archaeologist locate a historical site? *(5mks)*

7. State **five** methods used by scientist to date fossils remain and artifacts. *(5mks)*

8. Identify **five** unwritten sources of information on history and government. *(5mks)*

9. Give **five** reasons why Africa is believed to be the cradle of mankind *(5mks)*

10. State six uses of fire by early man *(6mks)*

11. State five factors that led to the development of early agriculture in Mesopotamia

(5mks)

12. Identify **four** distinct stage of evolution according to Charles Darwin *(4mks)*

13. State **four** types of Australopithecus that have been identified. *(4mks)*

14. Give **two** features of homo sapiens sapiens. *(2mks)*

15. State **four** advantages of written sources of information in history and government.
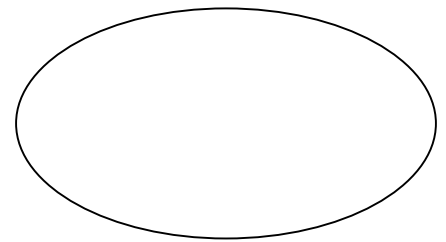
(4mks)

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GRAND TOTAL

GEOGRAPHY

TIME; 1hr 30 min

INSTRUCTIONS

- *Attempt all the questions in the spaces provided.*

1. (a) Apart from human and economic Geography, name the other two branches of Geography.   *(2mks)*

……………………………………………………………………………………………………

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   (b) State **four** areas studied under Human and Economic Geography.   *(4mks)*

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2. State four importance of studying Geography.   *(4mks)*

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3. What is the relationship between geography and chemistry?   *(2mks)*

4. (a) State and explain **four** proofs supporting that the earth is spherical. *(8mks)*

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   (b) Name the **three** forces that are responsible for the shape of the earth. *(3mks)*

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5. What is the time at town **Y** which is 60^0E when it is 10:30 a.m at town **X** which is 30^0E.

(4mks).

6. State **three** weaknesses of the passing star theory.   *(3mks)*

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

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   (b) From the solar system, identify;

       (i) The planet that supports life_____

(ii) The hottest planet_____

(iii) The fifth planet from the sun_____

(iv) The farthest planet_____

8. State **four** effects of rotation of the earth. *(4mks)*

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9. (a) Define the term equinoxes. *(2mks)*

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(b) Name **T**he **F**our **S**easons caused by the revolution of Earth. *(4mks)*

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10. The diagram below represents the globe. Use it to answer the questions that follow.
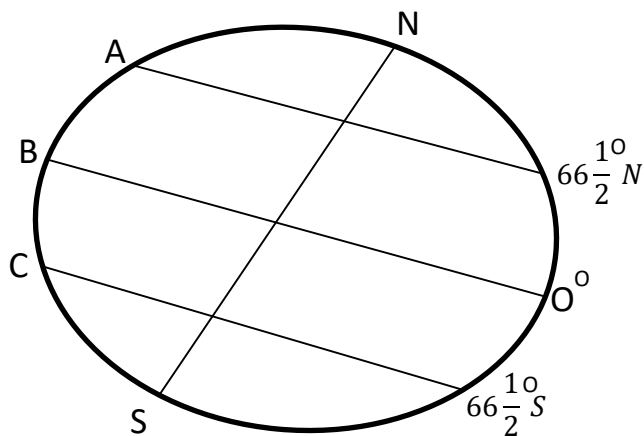
(a) Name the latitudes A,B & C   *(3mks)*

A_____

B_____

C_____

(b) Give the name of the latitude that runs from N to S   *(1mk)*

11. Using a well labeled diagram, describe how a lunar eclipse occurs.   *(7mks)*

12. (a) state **four** characteristics of the earth crust.   *(4mks)*

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   (b) Name the **two** layers of discontinuity in the internal structure of the earth. *(2mks)*

……………………………………………………………………………………………………
……………………………………………………………………………………………………

13. How long does the earth take to complete one rotation_____

                                                                                                    (1mk)

14. (a) What is weather_____   *(2mks)*

   (b) Give **two** examples of weather element   *(2mks)*

……

……

   (c) State **two** factors to consider when siting a weather station.   *(2mks)*

MTIHANI WA KISWAHILI
MWISHO WA MUHULA
MUHULA WA KWANZA
KIDATO CHA KWANZA

MUDA: SAA 2

MAAGIZO
Jibu maswali yote katika nafasi zilizoachwa

1. INSHA (ALAMA 20)

Mwandikie rafiki yako barua ukimwambia kuhusu maisha yalivyo katika shule ya upili.

2. UFAHAMU (ALAMA 10)
Soma kifungu kisha ujibu maswali yanayofuata.

NDOTO YANGU

   Kila mara huwa ninawaza na kuwazua juu ua maisha yangu ya usoni. Fikra zangu hupaa mithili ya chombo kutafuta jawabu la kitendawili cha maisha yangu ya baadaye.

   Azma niliyo nayo maishani ni ndoto. Ni ndoto ya muda mrefu mfano wa kiu inayosumbua nafsi yangu. Ndoto hiyo ni ile ya kuwa mkulima.

   Zaraa ni kazi yenye mvito mkubwa kwangu. Nimwonapo mkulima amejipinda, jembe mkononi, mgongo kauachilia jua limchome litakavyo, misuli imemtutumka na macho kayakaza kwa kwa ari, moyo wangu huchanuka kwa furaha mfano wa ua la alfajiri. Furaha yangu ni nimwone mkulima mwenye himaya ya shamba kubwa lenye mashine na matrekta huku wafanyakazi wakijizatiti kulihudumia.

   Ninastahabu kuwa mkulima kwani tajiri wangu atakuwa Maulana kuliko kuajiriwa na mwanadamu mwenzangu. Mkulima anapotayarisha shamba lake huwa anaweka matumaini yake kwa Rabuka. Kuchipuka na kutoa kwa mbegu alizozifukia hutegemea mapenzi ya muumba wake. Vilevile, mifugo wake huongezeka kutokana na baraka za Mola, kinyume cha kazi ambayo ambayo ujira unatokana na kulipwa na tajiri-binadamu.

   Furaha yangu kama mkulima ni kusimama juu ya kichuguu ili nishibishe macho yangu kwa mandhari yenye kuvutai. Mandhari ya ardhi miti na mimea iliyofunika na kutanda kama vile zulia la kijani. Nione pia mifugo wengi wakijilia majani na nyasi bila hofu. Sauti zao zikisikika zikipokezana kana kwamba wanatoa shukrani kwa Muumba wao.

   Nitaridhika nionapo vijulanga wenye afya kutokana na lishe bora wakicheza na kurukaruka. Watoto wenye nyuso zinazobashiri matumaini maishani. Vilevile, ni furaha iliyoje kuona wananchi wanaopata lishe bora ya kuwapa nguvu na afya kwa minajili ya kujenga taifa lao!

Kama mkulima nitachukua jukumu la kuwahamasisha wananchi kutilia maanani umuhimu wa kuhifadhi udongo ya njaana kutunza vyanzo vya maji kwa kutokata miti kiholela.

Nataraji kuwa mkulima ili nijiunge na wakulima wenzangu nchini, kwa lengo la kuikinga jamii yetu dhidi ya njaa. Nchi isiyo na chakula cha kutosha cha kuwalisha raia wake huwa na matatizo. Tatizo mojawapo ni kulazimika kuagiza chakula kutoka nchi zingine. Hii huleta hali ya utegemezi na matumizi ya juu ya fedha za nchi.

Ndoto yangu ni kuona watu wakipata ajira kutokana na kilimo. Waama ajira mashambani au katika viwanda huhitaji malighafi kutoka kwenye sekta ya zaraa. Nitaridhika mno nionapo wafanyakazi nitakaowaajiri wakiimarisha maisha yao.

Wanafunzi wenzangu hushangaa kuona vile ninavyopenda zaraa. Wao hawajui nia yangu. Nia hiyo ni ile ya kuitimiza ndoto yangu, kwani safari ya kesho hufungwa leo.

MASWALI

a) Andika kichwa kingine cha taarifa hii.   *(ala 2)*

b) Eleza sababu za mwandishi kutaka kuwa mkulima.   *(ala 3)*

c) Ni vipi tajiri wa mkulima ni Maulana.   *(ala 3)*

d) Umuhimu wa lishe bora ni upi ?   *(ala 2)*

e) Taja aina za kilimo zilizoelezwa katika habari.   *(ala 2)*

f) Eleza maana ya maneno yafuatayo kama yalivyotumika katika kifungu.   *(ala 3)*
a) Azma

b) Ajira

c) Vijulanga

3. MATUMIZI YA LUGHA (ALAMA 30)

a) Taja aina mbili kuu za sauti.   *(ala 2)*

b) Ni nini jina jingine la irabu ?   *(ala 1)*

c) Taja irabu mbili za kati.   *(ala 2)*

d) Toa mifano mitatu ya konsonanti za ufizi/ masine.   *(ala 3)*

e) Ni nini maana ya sauti za nazali ?   *(ala 2)*

f) Orodhesha ala tatu tuli za kutamkia.   *(ala 3)*

g) Elezea maana ya silabi.   *(ala 2)*

h) Unda maneno mawili yenye sauti mwambatano .   *(ala 2)*
i)
ii)

i) Shadda/ mkazo ni nini ?   *(ala 2)*

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j) Taja vipashio vinne vya lugha. *(ala 4)*

k) Taja aina mbili za maneno katika sentensi. *(ala 2)*

l) Tunga sentensi yenye muundo huu. *(ala 2)*
    N + V + T + E

m) Toa mfano mmoja wa kamusi. *(ala 1)*

n) Taja aina moja ya maktaba. *(ala 1)*

o) Kamilisha methali hii. *(ala 2)*
Mgaagaa na upwa⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯.

4. ISIMU JAMII (ALAMA 5)
a) Eleza maana ya lugha. *(ala 1)*

b) Taja sifa mbili za lugha. *(ala 2)*

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c) Orodhesha dhima (umuhimu) mbili za lugha. *(ala 2)*

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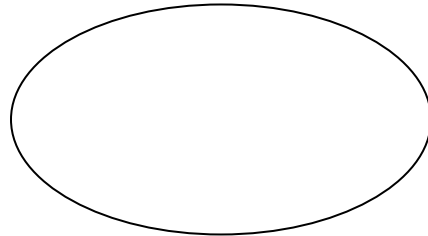
MATHEMATICS

Instructions:

- ✓ *Answer all questions in the spaces provided.*
- ✓ *All working must be clearly shown under each question.*
- ✓ *Calculators will not be required while answering the questions.*

TIME: 2 HOURS

1. State the place values of the following digits in the number 201.789.

    a) 1   *(1mk)*

    b) 8   *(1mk)*

    c) 7
       (1mk)

2. a) Write 207,099,099 in words.   *(2mks)*

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b) What is the total value of 7 in the number in (a) above?   *(1mk)*

3. Write in figures: *(2mks)*
   Ninety five billion, one hundred and fifty four million, two hundred and twenty three thousand and thirty

4. Determine, **without actual division**, whether the number 51,257,932 is:

   i.   divisible by 3   *(2mks)*

   ii.   divisible by 8   *(2mks)*

   iii.   divisible by 11   *(2mks)*

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5. Mutai leaves behind 50 hectares of land and sh. 120,000 savings in his will. The land was sold at sh. 80,000 per hectare. If his wife gets sh. 520,000 and the rest is divided equally among his four sons and two daughters, how much money does each child get? *(4mks)*

6. Convert the recurring decimal $0.1\dot{8}$ into fraction *(3mks)*

7. Express 900 as a product of its prime factors *(2mks)*

8. Find their **L.C.M** and the **G.C.D** of 24, 60 and 108 using prime factors method and **leave your answers** as a product of their prime factors. *(4mks)*

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9. The L.C.M of three numbers is 24 and their G.C.D is 4. If two of the numbers are 8 and 12, find the other number. *(4mks)*

10. Convert $1\frac{3}{4}$ into a mixed decimal *(2mks)*

11. Work out the following *(4mks)*

   i) $(-5) \times (-2) \times (-4)$

   ii) $(-36) \div (-9) \times (+2)$

12. Three-fifths of work is done on the first day. On the second day, ¾ of the remainder is completed. If third day $^7/_8$ of what remained is done, what fraction of work remains to be done? *(3mks)*

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13. Arrange the following fractions in descending order. *(3mks)*

$^7/_{12}$, $^2/_3$, ¾, $^5/_6$

14. Use a number line to evaluate: *(4mks)*

i)   (+4) + (-6)

ii)   (-5) − (-5)

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15. Evaluate; **(3mks)**

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

16. Write the 0.12 as fractions in its simplest form. **(2mks)**

17. Write the following in standard form. **(2mks)**

   i) 32890

   ii) 0.00346

18. Find the squares of the following using mathematical tables.
   i)   2594 **(2mks)**

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ii)   0.005643   *(2mks)*

19. Find the square roots of the following numbers using mathematical tables.

    i)   5974   *(3mks)*

    ii)   0.0000602   *(3mks)*

20. Simplify: 0.165 x 12.75   *(3mks)*
              0.25 x 0.0075

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21. Solve the equation. $\frac{x+1}{2} + \frac{2x+1}{2} = 9$ *(3mks)*

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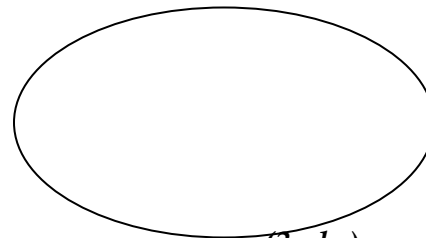
FORM 1
PHYSICS
Take g=10N/kg
Answer All questions in the spaces provided.
1. List 3 branches of physics.   *(3mks)*

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2. Explain the relationship between physics and Geography.   *(2mks)*

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3. Explain how you would estimate the circumference of a curved object using a thread and a ruler.   *(4mks)*

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4. (a) The mass of a density bottle of 50cm³ is 10.0g when empty. Aluminium turning are poured into the bottle and the total mass is 60.0g. Water is then added into the turnings till the bottle is full. If the total mass of the bottle and its contents is 90g, calculate the density of Aluminium. *(4mks)*

(b) State three characteristics of a solid whose volume is to be determined by displacement method *(3mks)*

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5. (a) Name the three different types of forces that act on a block of wood when placed on a table. *(3mks)*

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(b) State and explain the factors that affect surface tension. *(2mks)*

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6. (a) Give five differences between mass and weight. **(5mks)**

MASS	WEIGHT

(b) A mass of 7.5 kg has weight of 30N on a certain planet. Calculate the acceleration due to gravity on this planet. **(2mks)**

7. (a) Define the term pressure and state its SI unit. **(2mks)**

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(b) Explain why a camel is able to walk on deserts and cannot sink in sand.

(2mks)

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(c) A brick 30cm long 20cm and 5cm thick has a mass of 500g. Determine the;

i. Greatest pressure that can be exerted by the brick on the flat surface.

(2mks)

ii. Least pressure exerted by the brick. *(2mks)*

8. Calculate the weight of the following masses

a) 2kg *(1mk)*

b) 300000mg *(2 mks)*

9. (i) State the Pascal's principle. *(1mk)*

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(ii) Calculate the pressure at the bottom of a jar 30cm tall and filled with kerosene of density 0.8g/cm³. *(3mks)*

(b) Explain how a Hydraulic brake system below works. *(5mks)*

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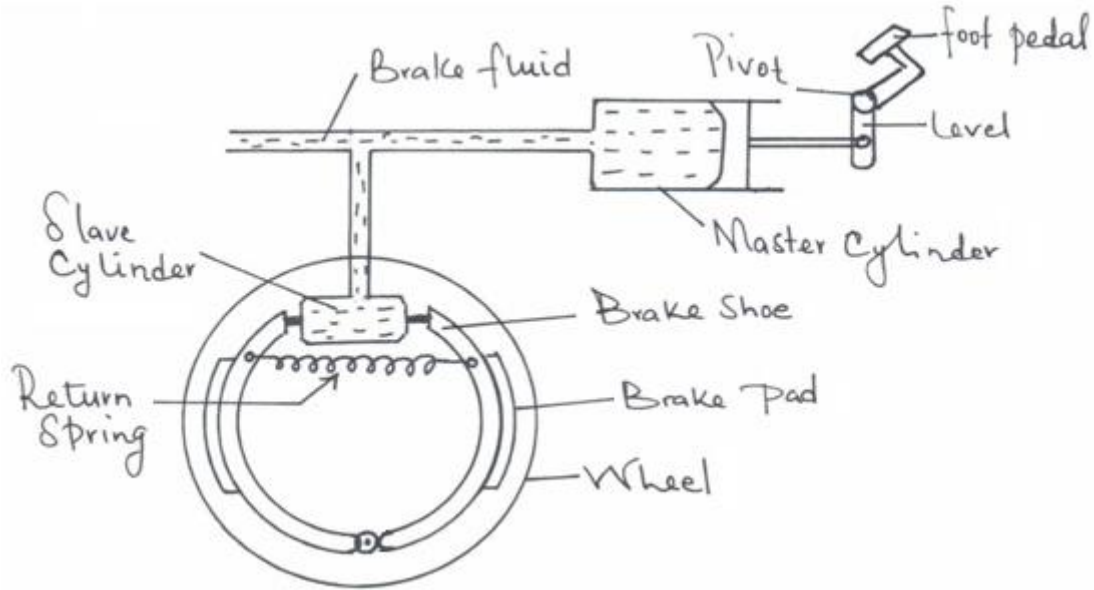
(c) A small force of 100N is applied on a small piston of area 0.25m² produces a bigger force on a larger piston of 10m². Calculate F₂. **(3mks)**

(d) Explain why water storage tanks in houses are erected as high as possible.

(2mks)

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10. (a) Differentiate between cohesive forces and adhesive forces.   *(2mks)*

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(b) A body weighs 200N in air and 170N when submerged in water. Calculate the upthrust acting on the body.   *(2mks)*

(c) When a glass window is wiped with a dry cloth on a dry day dust particles tend to stick on the window, identify the force responsible for this.   *(1 mk)*

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11. Water level in a burette is 30cm³. If 55 drops of water fall from the burette and the average volume of drop is 0.12cm³, what is the final water level in the burette?
                    (3mks)

12. A block of glass of mass 187.5g is 5.0cm long, 2.0cm thick and 7.5cm high. Calculate the density of the glass kg/m³. *(3mks)*

13. Express the following volumes in the units in brackets in:
    (a) 9000 cm³ to (m³) *(2mks)*

    (b) 27mm³ to (cm³) *(2mks)*

14. State two effects of a force on a moving object *(2mks)*
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