F1 TERM 2 OPENER EXAMS

ALL SUBJECTS

Well organized Standard Set of Term 2 Opener Examinations for Our Current Form 1 Students.

SUBJECTS COMPILED;

Mathematics, English, Kiswahili, Biology, Chemistry, Physics, CRE, Geography, History, Business Studies, Agriculture & Home-Science.

SERIES 1

For Marking Schemes

Mr Isaboke 0746-222-000 / 0742-999-000

MWALIMU CONSULTANCY

FORM 1 TERM 2 OPENER EXAMS

SERIES 1

BIOLOGY

TIME: 2 HOURS

NAME……. ADM NO; ……..

CLASS…… DATE……..

1. **i)**Give the meaning of biology. **(1mrk).**

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   ii) State and explain the two major branches of biology **(2mrks)**

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2. Give three importance's of studying biology? **(3mrks)**

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3. Name and explain the eight characteristics of living things. **(8mrks)**

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4. Motor vehicles move, use energy and produce carbon (iv) oxide and water. Similar characteristics occur in living organisms yet motor vehicles are not classified as living. **EXPLAIN.** **(3mrks)**

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5. Why is nutrition important in living organisms. **(2mrks)**

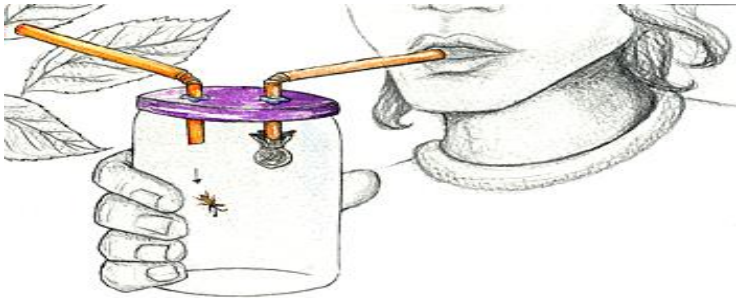
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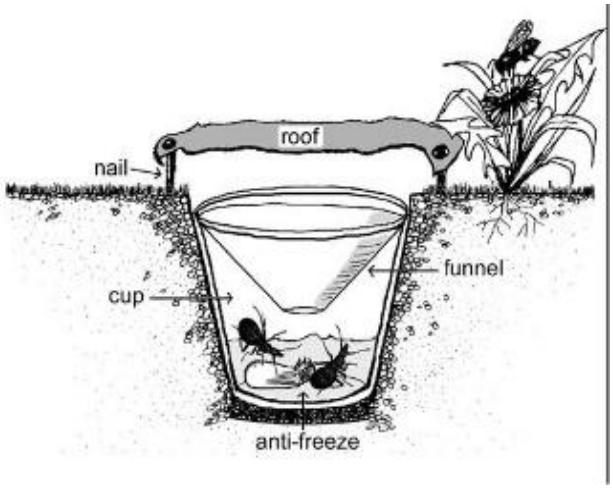
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6. Identify the following apparatus as used in biology and for each, give the function and an example of organism collected. **(12mrks)**









7. Distinguish between the following terms.

a) Taxon and taxonomy **(2mrks)**

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b) Genus and species **(2mrks)**

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8. Give 4 differences between plants and animals. **(4mrks,)**

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9. What do you understand by the term binomial nomenclature? **(2mrks)**

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10. A student observing a leg of an insect under a hand lens made a drawing of the leg whose length was 4cm with a magnification of X2. What was the actual length of the length.?

(2mrks)

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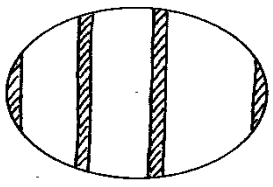
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11. A form one student, trying to estimate the size of onion cells observed the following on microscope's field of view

i. 

He counted 20 cells across the field of view. Calculate the size of one cell in micrometers. **(2mks)**

b) State the function of the following parts in a microscope. **(5mks)**

i) Mirror.

ii) Condenser

iii) Body tube

iv) Revolving nose-piece

v) Fine adjustment knob.

12. Name the organelle shown in the diagram above and give its functions **(2mk)**



13. State functions of the following cell structures.

i) Vacuoles, 1mk

ii) Nucleolus, 1mk

14. In which two ways are the organelles chloroplast and mitochondria similar. **2mks**

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15. What is meant by resolving power of a microscope. **2mks**

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16. Give the function for the following process when preparing temporary slides. **3mks**

a. Sectioning

b. fixation.

c. Organ system

17. Addition of iodine solution, to an onion epidermis on a slide while being observed on a light microscope. Explain

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18. Give the meaning of the following terms, giving an example in each case. **(6mrks)**

a. A tissue

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An organ

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b. An organ system.

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FORM 1 TERM 2 OPENER EXAMS

SERIES 1

AGRICULTURE

TIME: 1½ HOURS

NAME……. ADM NO; ……..

CLASS…… DATE……..

Instructions:

Answer all the questions in the spaces provided

1. Name three forms of horticultural farming. **(3mks)**

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2. State any five methods of farming. **(5mks)**

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3. Outline five roles of agriculture in the Kenyan economy. **(5mks)**

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4. List five biotic factors that affect agricultural production. **(5mks)**

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5. List four aspects of rainfall that a farmer may consider when deciding on what crop to grow in an area. **(4mks)**

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6. Give four factors influencing soil formation. **(4mks)**

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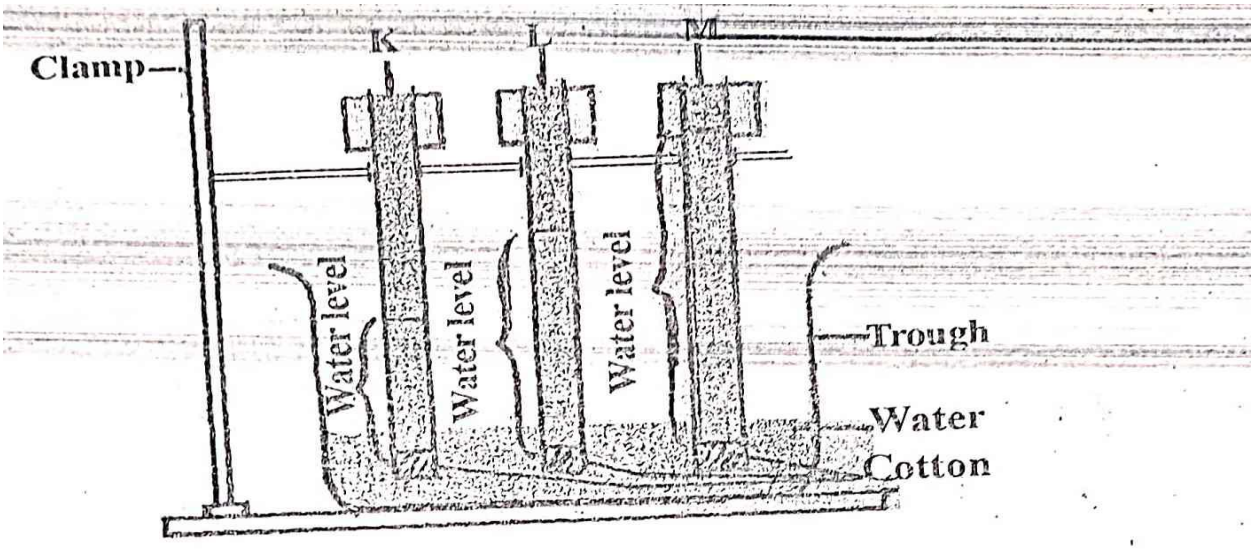
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7. Draw a well labeled diagram of soil profile. **(7mks)**

8. The experiment set-up below illustrated capillarity action in different soils. Observe it closely and answer the questions that follow.



a) Name the type of soil in capillary tube K, L, M. **(3mks)**

K

L

M

b) Name the type of soil with the highest capillary action. **(1mk)**

c) State the type of soil with the lowest capillary action. **(1mk)**

9. List five constituents of the soil. **(5mks)**

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10. Give two ways of lowering soil pH. **(2mks)**

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11. State five categories of farm tools and equipment. **(5mks)**

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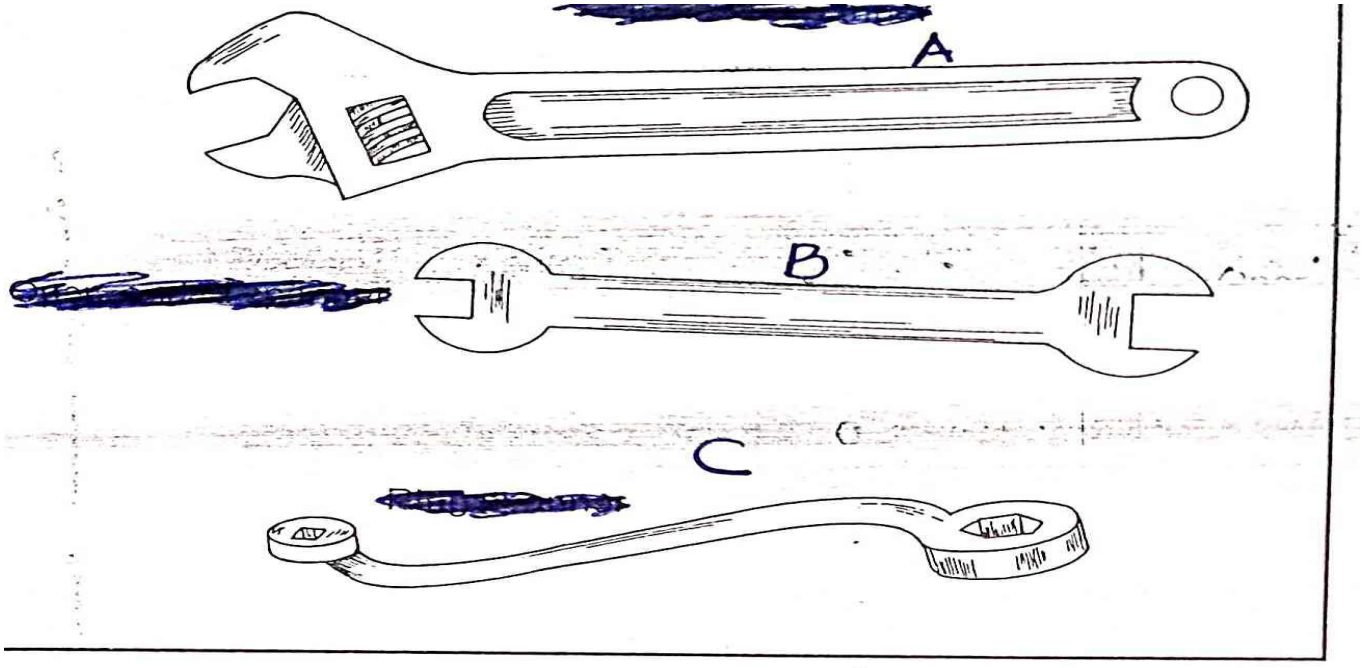
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12. The diagrams below represent types of spanner.



a) Name tools **(3mks)**

A

B

C

b) State one advantage of tool A over C. **(1mk)**

c) State five reasons for maintaining farm tools and equipments. **(5mks)**

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13. Define land preparation. **(1mk)**

b) List five importance of land preparation. **(5mks)**

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14. Give four methods of clearing the land. **(4mks)**

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15. State one maintenance practices carried out on saws. **(1mk)**

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FORM 1 TERM 2 OPENER EXAMS

SERIES 1

GEOGRAPHY

TIME: 1¾ HOURS

NAME……. ADM NO; ……..

CLASS…… DATE……..

INSTRUCTIONS;

Attempt all the questions.

1. Define the term environment. **(2mks)**

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2. State three sub-branches of physical Geography. **(3mks)**

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3. Give four reasons why it is important to study Geography. **(4mks)**

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4. Identify three components of the solar system. **(3mks)**

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5. Describe the passing star theory. **(4 marks)**

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

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7. The local time in New York(20^0W) IS 8.00 a.m. what is the local time at Kitale (**10^0E). (3mks)**

8. Define the following terms;

(i) Equinox **(2mks)**

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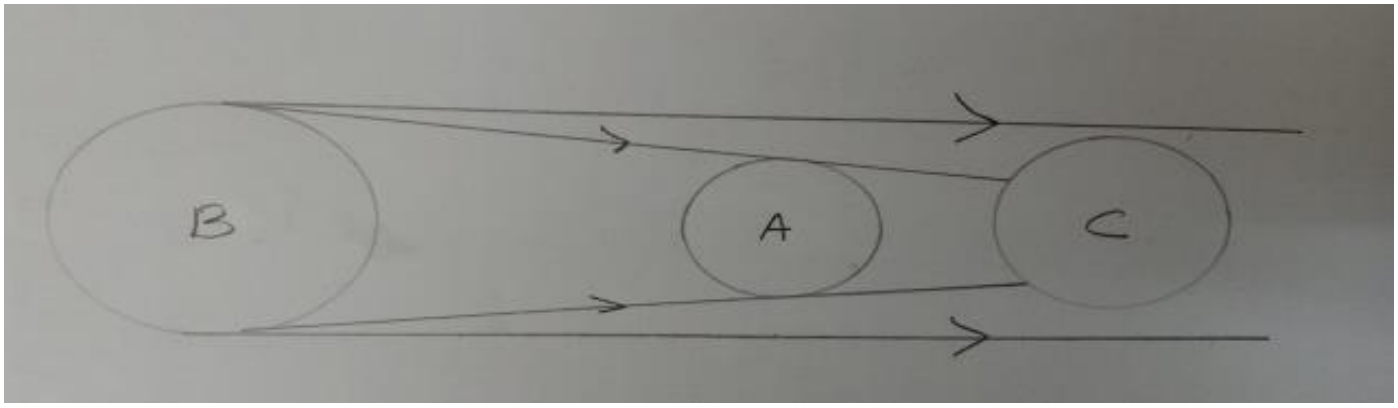
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(ii) Solstice **(2mks)**

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9. The following diagram represents a solar eclipse. Name the parts A, B and C. (3mks)



A_____

B_____

C_____

10. Define the term weather. **(2mks)**

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11. Name the instrument used to measure the following elements of weather: **(4mks)**

Rainfall_____

Wind direction_____

Humidity_____

Sunshine_____

12. Nyakebako school wants to establish a weather station. Which four conditions should they consider while siting the station? **(4mks)**

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13. State three ways the atmosphere is heated. **(3mks)**

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14. (a) Highlight four qualities of a good Stevenson screen. **(4mks)**

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15. Explain three reasons why the interior of the earth is very hot. **(6mks)**

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16. Describe four characteristics of the mantle. **(4mks)**

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17. Name the four layers of the atmosphere. **(4mks)**

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18. State four factors that influence temperature of a place. **(4mks)**

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19. What is weather forecasting? **(2mks)**

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20. (a) Name any two methods of weather forecasting **(2mks)**

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(b) Identify three importance of weather forecasting. **(3mks)**

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21. Identify two types of rainfall. **(2mks)**

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FORM 1 TERM 2 OPENER EXAMS

SERIES 1

BUSINESS STUDIES

TIME: 1¾ HOURS

NAME……. ADM NO; ……..

CLASS…… DATE……..

INSTRUCTIONS: ***Answer all questions in the spaces provided***

1. State four characteristics of a good **(4 marks)**

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2. State the reward for each of the following factors of production **(4 marks)**

	Factor	**Reward**
a)	Land	
b)	capital	
c)	Entrepreneur	
	Labour	

3. Highlight five sources of business ideas **(5 mks)**

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4. Outline four reasons why a business plan is **important** **(4 mks)**

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5. Highlight four reasons why a person may decide to establish a business. **(4 marks)**

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6. Give four problems that consumers may encounter as they try to satisfy their wants**(4 mks)**

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7. Janet says she would like to become a successful entrepreneur. Advice her on five qualities that she must have in order to achieve this objective. **(5 marks)**

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8. State four characteristics of economic resources **(4 marks)**

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9. Give four ways that a student can benefit from studying business as a subject **(4 marks)**

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10. Highlight four characteristics of land as a factor of production **(4 marks)**

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11. Define the following terms as used in business studies **(4 marks)**

a) Production

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b) Distribution

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c) Services

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d) Accounting

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12. Highlight four factors that contribute to success of a business venture **(4 marks)**

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13. Indicate whether each of the following factors is an internal or an external business environment **(4 marks)**

	Factor	**Environment**
a)	Size of population	
b)	Managers	
c)	Physical facilities	
d)	Competitors	

14. Give four characteristics of basic **wants** **(4mrks)**

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15. Highlight five factors that may hinder entrepreneurship development an a country **(5 mrks)**

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16. Highlight four resources that a business can use to enhance its operations **(4mrks)**

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17. Write down four factors that one should consider when evaluating a business opportunity **(4 mk)**

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FORM 1 TERM 2 OPENER EXAMS

SERIES 1

CHEMISTRY

TIME: 1¾ HOURS

NAME……. ADM NO; ……..

CLASS…… DATE……..

Answer all the questions in the spaces provided.

1. State any two branches of Chemistry. **(2 mks)**

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2. (a) What is a drug? **(1 mk)**

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(b) List any three frequently abused drugs? **(3 mks)**

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3. Outline four roles of Chemistry in the society. **(4 mks)**

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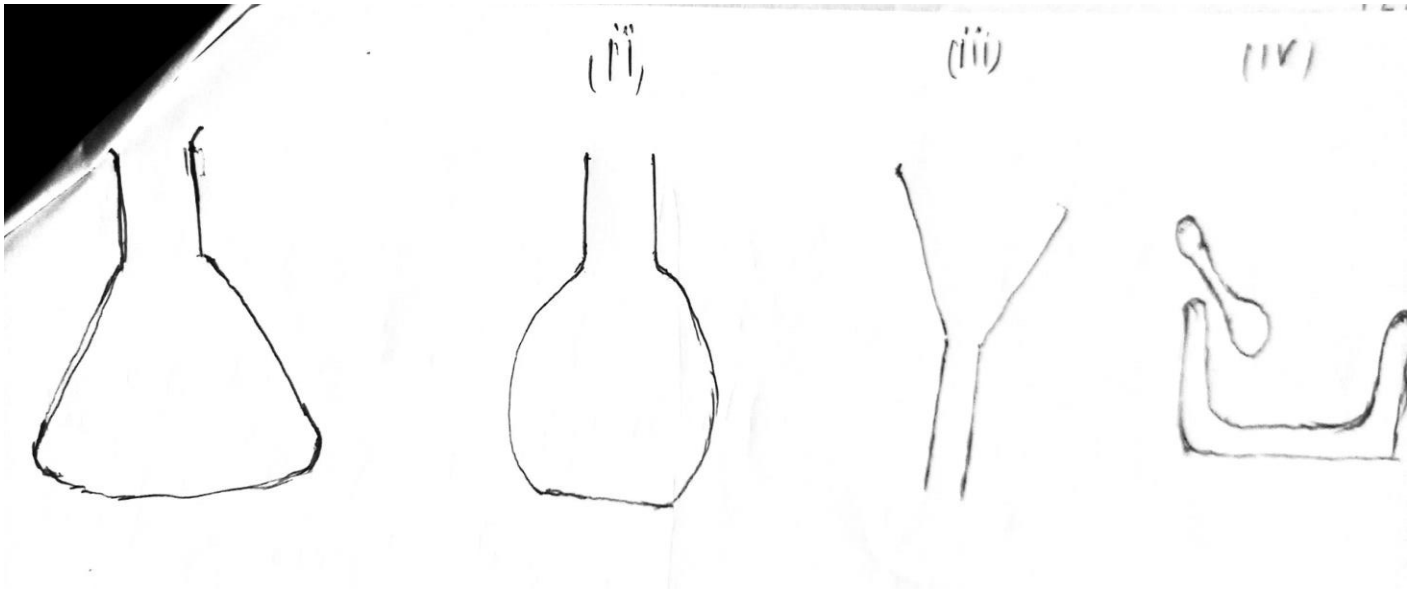
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4. Identify the following apparatus as they are used and found in a Chemistry Laboratory.**(4 mks)**



i)

ii)

iii)

iv)

5. (a) Define a flame as used in Chemistry . **(1 mk)**

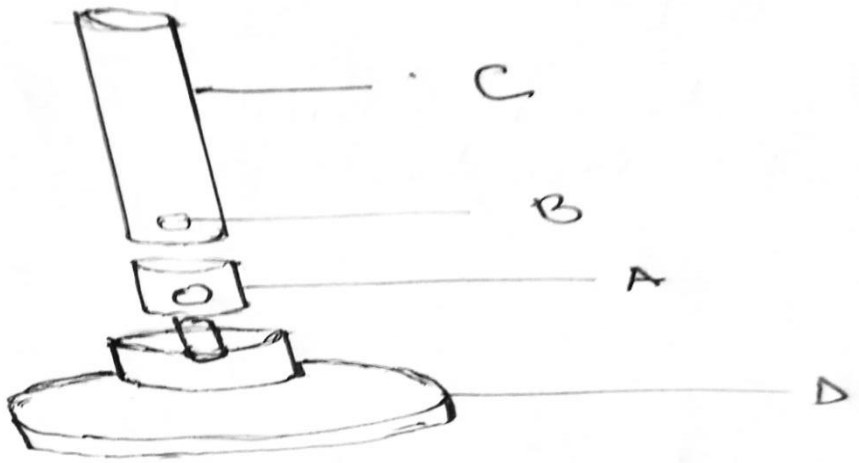
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(b) State the differences between luminous and non-luminous flames. **(4 mks)**

Luminous	**Non-Luminous**

6. (a) Identify the following apparatus and state its function as used in the laboratory. **(2 mks)**



(b) State the uses of the labeled parts; A, B, C and D. **(4 mks)**

A –

B –

C -

D -

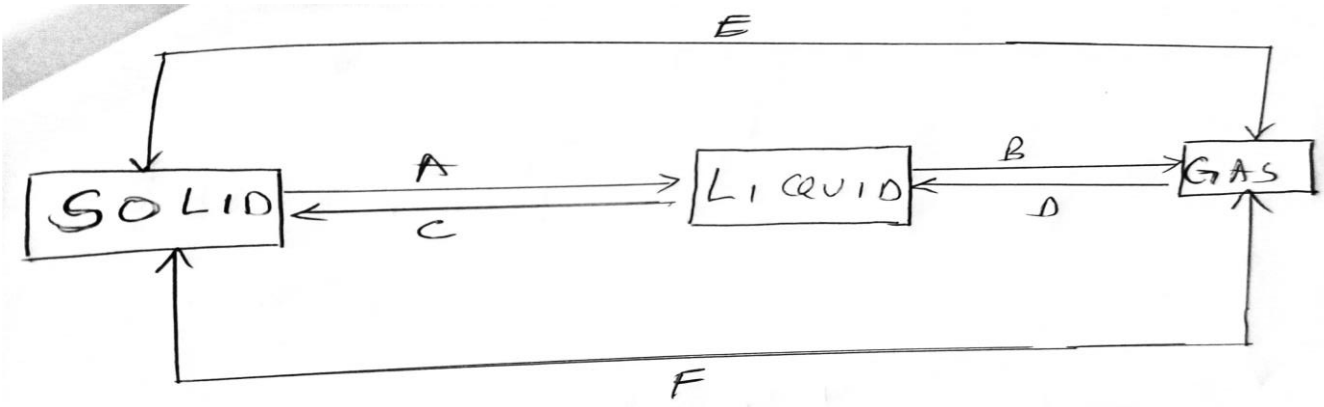
7. (a) State the three states of matter. **(1 ½ mks)**

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(b) Identify the following processes that show the changes of state that occur when a substance is heated and then cooled. **(6 mks)**



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8. (a) What is a mixture? **(1 ½ mks)**

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(b) State any four physical methods of separating mixtures. **(2 mks)**

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9. (a) Define the following terms:- **(3 mks)**

(i) Atom –

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(ii) Compound –

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(iii) An element –

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(b) State the differences between temporary and permanent changes. **(4 mks)**

Temporary	Permanent

10. List any six laboratory rules and regulations of a Chemistry Laboratory. **(6 mks)**

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11. Name any four career opportunities of Chemistry as a subject. **(4 mks)**

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12. State why most of laboratory apparatus are made of glasses. (3 mks)

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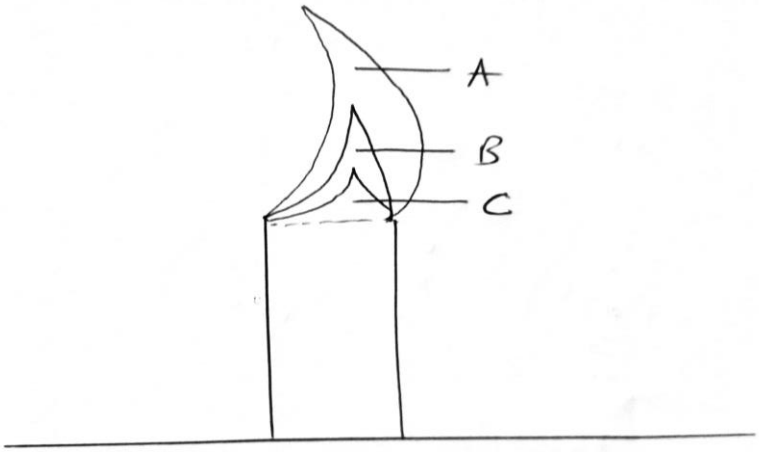
13. State three long-term effects of drug-abuse. **(3 mks)**

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14. The following diagrams represent a non-luminous flame of a Bunsen burner.



(a) Name the parts of the flame labeled A, B and C. **(1 ½ mks)**

A –

B –

C –

(b) Which part is the hottest? **(½ mks)**

(c) A non-luminous flame is preferred for heating. Explain. **(2 mks)**

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(d) (i) Name the other type of flame produced by a Bunsen burner. **(1 mk)**

(ii) Under what conditions does the Bunsen burner produce the flame you have named in d(i) above? **(1 mk)**

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15. State the effect of impurities on melting on boiling points. **(1 mk)**

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16. (a) Name the elements present in the following compounds:

(i) Calcium carbonate –

(ii) Magnesium nitride -

(b) Write a word equation for the reaction between:-

(i) Carbon and Oxygen.

(ii) Sodium and oxygen.

FORM 1 TERM 2 OPENER EXAMS

SERIES 1

CHRISTIAN RELIGIOUS EDUCATION

TIME: 2 HOURS

NAME……. ADM NO; ……..

CLASS…… DATE……..

QUESTIONS

1. Define Christian Religious Education**.** **(2mks**

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2. Give seven importance of learning Christian religious education. **(7mks)**

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3. Identify four major divisions of the New Testament. **(4mks)**

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4. List down five books of the Apocrypha**.** **(5mks)**

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5. Give six effects of the translation of the bible into African languages**.** **(6mks)**

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6. State six reasons why the Bible is referred to as the library**.** **(6mks)**

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7. Give the order in the first account of **creation** **(7mks)**

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8. Identify seven attributes of God from the creation **accounts** **(7mks)**

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9. Mention six versions of the bible used in Kenya **today** **(6mks)**

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FORM 1 TERM 2 OPENER EXAMS

SERIES 1

ENGLISH

TIME: 1½ HOURS

NAME……. ADM NO; ……..

CLASS…… DATE……..

INSTRUCTIONS:

Answer all the questions in the spaces provided

1. Write a composition with the title***: The day I will never forget.*** ***(20mks)***

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2. CLOZE TEST (10MKS)

The first principle accords every child the right to enjoy the rights set forth in the law. In enjoying these rights ____1_____ child shall be discriminated __2_____ on the basis of race, colour, religion, sex, language, nationality, or political opinion ___3_____ himself/herself and his or her family. This law is in ____4_____ with the human rights principle of equality of all _____5_____. This principle caters ___6_____ the child's right __7_____ enjoy special protection___8_____ the law. These include __9_____ of shelter, education, religion, health _10_____ other services.

3. Read the narrative below and answer the questions that follow. *(15MKS)*

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 orge. Nyokabi could not run away because her legs were weak with fear. The orge told had a long tail and one bid eye on the forehead.

'Now I will take you home and eat you,' the orge told Nyokabi as he carried her in one hand across the river to his house.

The ogre locked 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 happended. Her elder brother, Matheri, took a spear and after getting diections from the girls went to rescue his sister.

Questions

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

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

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

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

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

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vi. Give another word that mean the same as the ones below. **(3mks)**

a) Frightened

b) Feast

c) Outstanding

4. <u>Oral skills (10mks)</u>

i. <u>Pick the odd one out according to the pronunciation that is underlined. (4mks</u>

a) Pick<u>ed</u>, wick<u>ed</u>, pack<u>ed</u>, sack<u>ed</u>

b) <u>Th</u>ink, <u>th</u>is, <u>th</u>ing, <u>th</u>istle

c) W<u>o</u>rld, w<u>o</u>rker, w<u>o</u>lf, w<u>o</u>rship

d) <u>G</u>as, <u>g</u>esture, <u>g</u>ait, <u>g</u>race

ii. Identify three pair of words with the same pronunciation from the list below.(3mks)

Bear, tale, get, tell, beer, know, bare, cheque, hole, check, tail, gate, gait, gnaw, hall.

a.

b.

c.

iii. *Correct the spelling mistakes of the words below.* **(3mks)**

a) Pronounciation

b) Immeadiately

c) Luggages.

5. GRAMMAR (15MKS)

a) Complete the following sentences by filling in the blanks with a, an or the.(5mks)

I. _____ lion is said to be the king of the jungle.

II. The girl bought _____ pair of sunglasses.

III. It is _____ honour to work for big companies.

IV. I bought _____ umbrella yesterday.

V. _____ poor have a right to education

b) Give the plural form of the following nouns. ***(5mks)***

I. Child -

II. Thief -

III. Church -

IV. Berry -

V. Ox –

c) Fill the blanks with a non-count expression. ***(5mks)***

I. A _____of sugar

II. A _____ of milk

III. A _____ of advice

IV. A _____ of bread

V. A _____ of salt.

FORM 1 TERM 2 OPENER EXAMS

SERIES 1

KISWAHILI

TIME: 2 HOURS

NAME……. ADM NO; ……..

CLASS…… DATE……..

1.UFAHAMU(Alama 15)

Ajira ya watoto

Kingi alizaliwa vuruni kijiji kilichosifika kwa ukarimu wa wanakijiji wake.Ingawa walikuwa karimu,Wavuruni wengi walikosa elimu.F**auka ya** hayo,walininginia katika umaskini uliokithiri.Hivyo,wengi waliselea katika kazi za kijungu jiko.Watot wa umri wa kwenda shule walikosa elimu na kuzurura mitaani.Udhaifu huu ulimpa faida Mwakisu,tajiri mmoja aliyemiliki shamba kubwa.Aliwaajiri watoto hao.

Mwakisu alikuwa **mkwasi** alietononoka si haba.Kama ni senti ,alikuwa nazo.Kilichotia doa jina lake ni kiburi. Mbali na kiburi hicho,yeye hakujaliwa moyo wa huruma na utu.
Hakubarikiwa kuwa mwema . Maadili hutuongoza kila mara kuwa 'wema hauozi'.

Kwa Mwakisu,wema ulioza na **kuvunda** .Utu uling'oka katika bawaba za moyo wake na ukawa msamiati aliouchukia.Aliwatumikisha watoto wa wenzake huku wake wakisoma shule.Tabia yake hiyo ndiyo iliyowafanya Wavuruni kumtoa katika orodha yao ya watu wema.

Mwakisu alistaajabisha!Hakutaka kununua kununua mashine zozote za kufanya kazi shambani ingawa alikuwa nao uwezo. **Alistahabu** kuajiri watoto wadogo na kuwadhulumu.Mkwasi huyu alifurahia kuona vitoto vikimenyana na kazi shambani kwake tangu mawio hadi machweo na hatimaye kuwapa ujira mdogo.

Siku moja Kingi alimtaka radhi, "Bosi naomba uniongezee chochote ,kwani tuna shida nyumbani." Mwasiku alimkodolea macho huku mdomo ukimcheza.Hapo alimchomolea mwajiriwa wake tusi kubwa kutoka kwenye hazina yake isiyopungua.Tusi ambalo lilimtaabisha Kingi kulisahau.Lilikaririwa akilini mwake kwa sonono. Tangu siku hiyo Kingi akaona kuwa kuajiriwa na Mwakisu ni kufadhiliwa u chini.

Kiburi cha mwakisu kilidhihirika kila mara .Kila alipomwona motto akilia kwa uchovu au maumivu , ungemsikia akimfokea ,"Chapa kazi!Unalilia nani hapa?Kama humudu kazi rudi kwa mamako ukanyonye."

Kazi nyingi zilikuwa ngumu na hazikuwastahili watoto wenye umri mdogo.Si kipupwe, si kaskazi,si vuli,si kiangazi ,si kusi:kazi ziliongezeka na kuwaumiza watoto.Kingi,kwa

mfano,alitakikana akame ng'ombe kumi na abebe maziwa hadi kwenye tangi kubwa .Kisha angewakatia mg'ombe nyasi na kuwasafisha . Hatimaye angehitajika kuzoa samadi.

Msimu wa kipupwe uliwadia.Baridi ikawatafuna watoto hao waliokosa mavazi bora.Kingin aliugua. Watoto wengi wakapatwa na maradhi.Wawili wakaaga dunia.Wazazi walipoona maisha ya watoto wao yamo hatarini,wakaandamana hadi kwa Mwakisu.tajiri huyo aliwajia kwa meno ya juu,'msiniitie kibuhuti. Mimi niliwaajiri watoto,sio watoto na wazazi wao".Wazazi wakatanabahi kuwa , 'Pa shoka hapaingii kisu'.Waliandamana hadi kwa chifu.Chifu alipoyaona yamempita kimo,akafululiza hadi kituo cha polisi.

Mwakisu akakamatwa , akashtakiwa na kuhukumiwa . Alipatikana na makosa ya kuwaajiri watoto wenye unri mdogo na kusababisha vifo vya wawili hao.

Serikali ikatoa amri kwa wazazi kupeleka watoto wao shuleni. Ikatoa pia misaada ya kuendeleza elimu;elimu ya bure kwa shule za msingi. Kingi akasoma hadi kuhitimu chuo kikuu. Akawa daktari. Alfajiri moja mahabusu waliletwa hospitali kuu ya mkoa kwa matibabu. Kingi akampa huduma mzee aliyejawa mvi na **kukoboka** meno. Alipomtazama kwa makini akamkumbuka.

Mwakisu akababahatisha,"sura yako….ni kama Kingi…"Kingi akamjibu,"Mimi ndiye Kingi."Wakakondoleana macho,huku machozi yakimtiririka Mwakisu.

MASWALI

1.Toa kichwa kingine kwa habari hii. **(alama 1)**

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2.Taja matatizo mawili yaliyowakabili wanakijiji cha Vuruni. **(alama 2)**

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3.Ni mambo gani yaliyowafanya wanakijiji kumtoa Mwasiku katika orodha yao**?** **(alama 2)**

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4.Taja kazi alizofanya Kingi. **(alama 3)**

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5. Mwasiku alishtakiwa kwa makosa gani? **(alama 1)**

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6.Eleza maana ya semi hizi. **(alama 3)**

(a)Kazi ya kijungu jiko.

(b)Tononoka si haba.

(c)Kodolea macho.

7.Toa maana ya methali hizi: **(alama 2)**

(a)Wema hauozi.

(b)Pa shoka hapaingii kisu.

8.Toa maana ya msamiati huu kama ulivyoptumiwa katika makala: **(alama 1)**

(a)Fauka ya

(b)Alistahabu

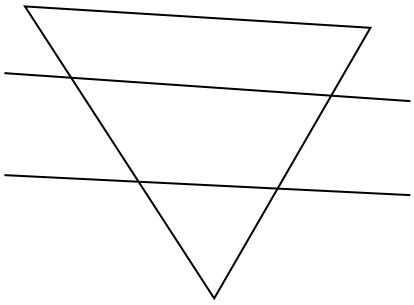
2.**MATUMIZI YA LUGHA(ALAMA 40)**

(a)Taja na utofautishe aina mbili kuu za sauti za lugha ya Kiswahili **(alm 2)**

Kutaja

Tofauti

(b)Onyesha matamshi ya vokali ukitumia mchoro huu wa pembe tatu. **(alama 5)**



c) Eleza maana ya

i)Shadda

ii)Kiimbo **(alama 2)**

(iii)Weka shadda neno barabara **(alama 2)**

Kuonyesha maana ya shwari na baraste

Shwari _____ Baraste_____

(d)Taja vipashio vinne vijenzi vya lugha ya Kiswahili. **(alama 4)**

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(e) Tenga silabi na uainishe katika neno **(alama 2)**

Muhtasari

(f) Sahihisha sentensi hizi **(alama 3)**

(i)Mtoto amerara usingizi mnono.

(ii)Papu yangu ni mzee kiazi.

(g)Tofautisha sauti . **(alama 2)**

/r/ na /l/

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(h)Eleza sifa tatu za Kamusi ya lugha ya Kiswahili. **(alama 3)**

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(i) Kamilisha methali. **(alama 2)**

Mgagaa na upwa _____

(j) Bainisha aina za maneno katika sentensi hizi. **(alama 5)**

(i)Mwalimu anaandika .

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(ii)Mwalimu anaandika ubaoni.

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(k)Ainisha mofimu na viambishi katika neno **<u>Aliyesomewa</u>**. **(alama 4)**

Mofimu _____

Viambishi_____

(l) Andika visawe vya viwakifishi hivi. **(alama 4)**

(i)Nukta-

(ii)Koma –

(iii)Mkwaju-

(iv)Mtajo-

FORM 1 TERM 2 OPENER EXAMS

SERIES 1

MATHEMATICS

TIME: 2 HOURS

NAME……. ADM NO; ……..

CLASS…… DATE……..

Attempt all questions in the spaces provided

1. Evaluate **(3mks)**

$$\frac{-19 + (6-8) \div 2 \times 5}{16 \div 4 \times -3}$$

2. Express the following numbers as products of their prime factors **(3mks)**

i) 357

ii) 5929

3. Find the GCD of 72, 96 and **300** **(3mk)**

4. Express 0.872872872…….as a fraction **(3mks)**

5. Show how the following calculations are performed using number line **(4mks)**

i)-2 + (-2) + -3 + (-1)

ii) -7 – (-8)

6. Evaluate **(3mks)**

$4\frac{1}{2} - (5\frac{1}{5} + \frac{4}{5} \text{ of } \frac{25}{3})$

7. Charles spent ¼ of his net salary on school fees. He spent ¼ of the remainder on electricity and water bills. He then spent $\frac{1}{9}$ of what was left on transport. If he finally had sh 3400, what was his net January **salary** **(3mks)**

8. Which of the following numbers is divisible by 11, 3, and 4 **(3mks)**

a) 2596

b) 5896

1052

9.All prime numbers between 0 and 10 are arranged in a descending order to form a whole number

(a) Write down the number formed. **(1mk)**

(b) Test whether or not the number formed in 16 (a) above is divisible by 11. **(2mks)**

10. A man is x years old now. In 10 years time, he will be twice as old as he was 5 years ago. How old will he be in 10 years time? **(3mks)**

11. Evaluate: $\frac{¼ + {}^{1}/_{5} \div ½ \text{ of } {}^{1}/_{3}}{½ \text{ of } ({}^{4}\backslash 5 - ¾ + ½)}$ **(3mks)**

12. The sum of ${}^{3}/_{8}$, ${}^{20}/_{3}$ and x is $6{}^{57}/_{120}$. Find x. **(2mks)**

13. Evaluate without using tables or calculators. **(3mks)**

$$\frac{0.036 \times 0.0049}{0.07 \times 0.048}$$

14.A shop keeper sells a shirt for Kshs.350 thereby making a profit of 40%. Calculate the buying price of the **shirt** **(3mks)**

15. Evaluate:

$$\frac{44-(-28)}{12\times -2} - \frac{8^2 \times -12 - 24}{96 \div -12 \times 9}.$$ **(3marks)**

16. A number **n** is such that when divided by 3, 7, 11 or 13, the remainder is always one. Find the number **n**. **(3marks)**

17. Reduce the following expression onto a single fraction.

$\frac{4x-5}{2} - \frac{2x-1}{6}$ **(3 marks)**

18. Convert 7/8 into a decimal **(3mks)**

19. If X: Y =1:2 and Y: Z =3:5 find X: Y: **Z** **(3mks)**

20.A famer has a piece of land measuring 840m by 396m. He divides it into square plots of equal sizes. Find the maximum area of one plot. **(4marks)**

21. The ratio of John's earnings to Musa's earnings is 5:3 if johns earning's increase by 12%, his new figure becomes sh.56000.find the corresponding percentage change in Musa's earnings if the sum of their new earnings is sh 9600**.** **(3mks)**

22. Convert into percentage **(3mks)**

i) 0.03%

23. Three Lorries, each making five trips per day, transport 2500 crates from a factory to a distributor in two days. How many Lorries, each making six trips a day, are needed to transport 10000 such crates in a day? **(3mks)**

FORM 1 TERM 2 OPENER EXAMS

SERIES 1

HISTORY & GOVERNMENT

TIME: 2 HOURS

NAME……. ADM NO; ……..

CLASS…… DATE……..

SECTION A: 25MKS:

Answer All The Questions in this Section

1. Identify the branch of history that studies the occupation of people. **(1 mark)**
2. State two sources of information on History and Government. **(2 marks)**
3. Identify two distinct characteristics of Homo Erectus. **(2 marks)**
4. State two limitation of relying on oral traditions as a source of History. **(2 marks)**
5. Give one reason why the period of early man is referred to as the stone age. **(1mk).**
6. Identify the method used to plant cereal crops when early agriculture began**.(1mk)**
7. State three reasons why Africa is regarded as the cradle of human kind. **(3 marks)**
8. State two characteristics that distinguish man from other primates**.** **(2 mks)**
9. State two contribution of River Nile to the development of early Agriculture in Egypt. **(2mks)**
10. Mention two ways in which Africans contributed to Agrarian revolution in USA**. (2mks)**
11. Identify the original homeland of the Luo before their migration into Kenya **(1 mrk)**
12. Give two Western communities who are linguistically related to the Abagusii. **(2mks)**
13. Mention four communities among the plains Nilotes in Kenya. **(4mks)**

SECTION B:45 MKS

Answer Only Three full Questions in this Section

14a) Give three social activities of the early man during the Middle Stone Age Period. **3mks**

b) Describe the culture of early man during the middle Stone Age period. **(12mks)**

15a) State five factors that led man to start domesticating plants and animals**.** **(5mks)**

b) Explain five results of Agrarian Revolution in Europe**.** **(10mks)**

16a) Give five reasons why the Bantu migrated from Shungwaya area. **5mks)**

(b) Explain the results of the migration and settlement of the Bantu in Kenya **l0mks**

17a) Identify five disadvantages of the open-field system of agriculture in Europe before the Agrarian revolution. **(5mks)**

b) Explain five changes marking the Agrarian Revolution in Britain. **(10marks)**

FOR MARKING SCHEMES CONTACT *0746-222-000 / 0742-999-000*

FORM 1 TERM 2 OPENER EXAMS

SERIES 1

PHYSICS

TIME: 2 HOURS

NAME……. ADM NO; ……..

CLASS…… DATE……..

Answer all the questions in the spaces provided.

1. State three topics you studied in primary Science which is related to Physics. **(3mks)**

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2. State four career opportunities which require you to study physics. **(4mks)**

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3. Give reasons of studying physics in School. **(3mks)**

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4. Give three problems which can be associated with use of knowledge gained in physics. **(3mks)**

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5. State how physics is applied in **(2mks)**

a) Geography

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b) Home science

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6. State the three basic quantities **(3mks)**

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7. Express the following into cm^2. **(2mks)**

a) $8.5m^2$

b) $0.0008cm^2$

8. The mass of $20cm^3$ of wood was found to be 0.04kg. calculate the density of wood.

a) In kg/m^3 **(2mks)**

b) Ing/cm^3 **(2mks)**

9. How would you find the area of irregularly snapped surface **(2mks)**

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10. Name five laboratory apparatus that can be used to measure the volume of a liqui**d.** **(5mks)**

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11. (a) Define time and state its SI units. **(2mks)**

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(b) Calculate the number of seconds in a day. **(2mks)**

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12. Define force and give its SI units **(2mks)**

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13. State three types of forces. **(3mks)**

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14. Explain why water wets a paper but mercury does not. **(2mks)**

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15. State two factors which affects surface tension of a liquid. **(2mks)**

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16. State the difference between mass and weight **(4mks)**

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17. Define scalar and vector quantities and give example of each. **(4mks)**

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18. Define the term pressure and give its SI unit. **(2mks)**

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19. Explain how drinking straw works. **(4mks)**

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20. State two applications at the principle of transmission of pressure. **(2mks)**

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21. A density of a liquid is 1.5gcm^3. Calculate the volume of 4kg of the liquid in cm^3. **(3mks)**

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22. A mixture consists of 40cm^3 of water and 60cm^3 of liquid X. If the densities of water and liquid x are 1.0g/cm^3 and 0.8g/cm^3 respectively, calculate the density of mixture**.** **(3mks)**

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23. What is friction force? **(1mk)**

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(b) Give two advantages of frictional force. **(2mks)**

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24. Calculate the pressure due to water experienced by a fish 20m below the surface of the sea (Density of sea water. 1030kg/m^3) **(3mks)**

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25. The force of gravity on the moon is one sixth of that on the earth. Determine the weight of a 12kg mass on the moon. **(2mks)**

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26. A box of mass 5kg has dimension's 10mx5mx3m. determine the maximum pressure exerted by the box on a flat surface. **(3mks)**

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FORM 1 TERM 2 OPENER EXAMS

SERIES 1

HOME-SCIENCE

TIME: 2 HOURS

NAME……. ADM NO; ……..

CLASS…… DATE……..

INSTRUCTIONS

Answer all the questions in the spaces provided.

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

i. Personal hygiene

ii. Good grooming

2. State three functions of the skin. **(3mks)**

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3. Explain how the skin types can be identified. **(3mks)**

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4. Mention three reasons why canvas shoes are suitable for sports**.** **(3mks)**

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5. State five factors to consider when buying clothes for a slim figure. **(5mks)**

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6. List three nutrients, which are necessary for healthy teeth. **(3mks)**

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7. Give three ways of caring for the nails. **(3mks)**

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8. Suggest four methods of disinfecting sterilizing both towel. **(4mks)**

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9. Give three precautions to take when administering medicine to a patient. **(3mks)**

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10. State the functions of the following: **(3mks)**

a. Sebaceous glands

b. Blood capillaries

c. Nerve ending

11. Mention problems that may occur on feet as a result of wearing tight fitting shoes. **(3mks)**

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b. What are bunions? **(1mk)**

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12. Give two reasons for bathing. **(2mks)**

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13. Give three preventive measures to take to avoid cuts at home. **(3mks)**

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14. Give the use of the following items in a first aid kit. **(5mks)**

i. Cotton wool /swab

ii. Adhesive dressing

iii. Bandages

iv. Disposable gloves

v. Scissors.

15. Give four changes that may occur during adolescence. **(4mks)**

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16. Describe the procedure for laundering a handkerchief. **(10mks)**

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b. Outline the procedure for cleaning a pair of white canvas shoes. **(10mks)**

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THE END

For Marking Schemes, Contact Mr Isaboke

0746-222-000

0742-999-000

Mwalimu Consultancy Ltd

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- ✓ TOP SCHOOLS MOCKS
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