

HOLIDAY ASSIGNMENT

FORM 1 SET 3 QNS

Attempt & Present This Assignment on Opening Day!

[For Marking Schemes Call 0705525657](tel:0705525657)

BIOLOGY

Answer ALL questions in the spaces provided.

1. Name the branch of Biology involved in each of the following. (3mks)
 - a) Study of inheritance and variations.
 - b) Study of cells
 - c) Study of parasites
2. Describe what each of the following branches of Biology involves. (3mks)
 - a) Ecology –
 - b) Entomology –
 - c) Microbiology -
3. List four professional occupations in which the study of biology is important

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4. Differentiate between growth and development. (2mks)
5. Give four reasons why animals move from one place to another. (4mks)

6. Complete the table below appropriately. (6mks)

<i>Branch of biology</i>	<i>Name of scientist who specializes in it.</i>	<i>Name of study</i>
i. Zoology	ii.	iii.
i.	ii. Ecologist	iii.
i.	ii.	iii. Study of fungi

7. How does nutrition as a characteristic of living organism differ in plants and animals? (2mks)
8. State the importance of each of the following in living organisms. (2mks)
a) Nutrition –

b) Excretion –
9. A car produces energy, moves about and produces waste products yet it is regarded as a non-living thing. Explain this observation. (4mks)
10. Make a well labeled diagram of a magnifying lens. (4mks)
11. (a) Explain the meaning of the term Binomial nomenclature. (1mk)
- (b) State the three rules used in Binomial nomenclature. (3mks)

12. Name the taxonomic units of classification in ascending order.(7mks)

13. The scientific name Lantana camara refers to a green herbaceous plant. Other related plants include; Lantana trifoliata and Vitex rifoliata .

a) From the list, identify the plants belonging to the same genus. (2mks)

b) From the name Lantana Camara, which name represents:-

i) Genus name (1mk)

ii) Species name. (1mk)

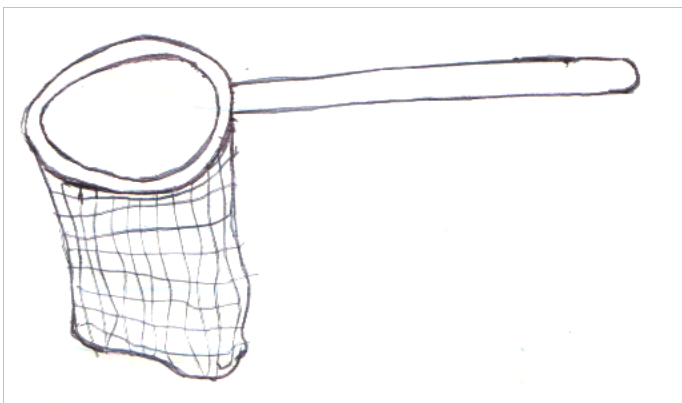
14. State three importance of classification of living organisms. (3mks)

15. (a) Explain why it is important to use scientific names of organisms in biology other than common names. (1mk)

(b) VITEX is a genus of a tree found on Mt. Kenya. The specific name has been latinised to KENESIS. Write down the scientific name of the tree. (2mks)

16. State the name and function of each of the following apparatus as used in specimen collection

a) ..



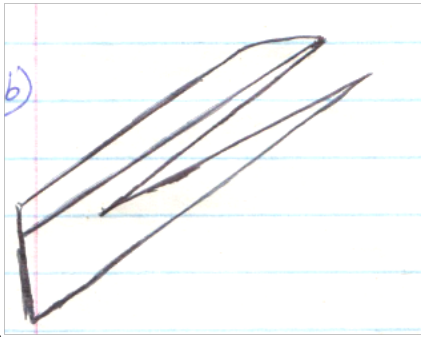
Name.....

(1mk)

Function:

(1mk)

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Name:

(1mk)

Function:

(1mk)

17. State any three precautions when collecting specimens for a biological study.
(3mks)

18. A leaf drawn using a hand lens measured 10cm long. The actual length of the leaf was 5cm.
Work out the magnification of the drawing.(2mks)

19. Kingdom is the largest taxonomic unit of classification with the highest members. List down the 5 kingdoms as used in classification. (5mks)

20. Define the term species.

(1mk)

SET 3 HOLIDAY ASSIGNMENT

BUSINESS

SECTION A (40 MARKS)

1. Define the following terms as applied in business studies (4mks)

a) Accounting.....

.....

b) Production.....

.....

c) Utility.....

.....

d) Human wants.....

.....

2. State five challenges encountered in the satisfaction of human wants (5mks)

.....

.....

.....

3. State four reasons as to why a poorly laid out business structure is likely to lead to failure of a business (4mks)

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4.a) Differentiate between generic and enterprise competition (2mks)

b) Classify each of the following into generic or enterprise competition (3mks)

ACTIVITY	FORM OF COMPETITION
A coffee seller competing with a tea seller	
A television station competing with a radio station in enterpreneuring customers	
Kenya Literature Bureu competing with longhorn publishers in book selling	

5.a) Differentiate between consumer goods and capital goods. Give an example in each case.(4mks)

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.....

b) Define the term opportunity cost (2mks)

.....

.....

c) Complete the table below (4mks)

Activity	Form of utility
Delivering milk to a customer	
Making uniform to a student	
Keeping savings in a bank	
Selling books to a student	

6.State four components of business studies (4mks)

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.....

7. List down four factors of production and the reward for each (4mks)

.....

8. Identify by use of a tick (✓) whether the following resources are renewable or non renewable (4mks)

Resource	Renewable	Non- renewable
Wood		
Natural gas		
Soda ash		
Aluminium		

SECTION B (30MKS)

9. State six characteristics of labour as a factor of production (6mks)

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10. Differentiate between division of labour and specialization (4mks)

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11. Discuss five categories of goods and services produced in an economy (10mks)

.....

12.a) Name two categories of tertiary level of production (2mks)

.....

b) State five characteristics of economic resources (5mks)

...

.....

c) Name three external environments likely to affect operations of a business (3mk)

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d) Define the term testament. (2mks)

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e) List three national goals of education. (3mks)

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f) Give five reasons why the Bible is a library. (5mks)

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g) List the five examples of pastoral letters. (5mks)

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h) Describe the process of Bible translation from original to local languages. (6mks)

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i) Explain five effects of Bible translation. (5mks)

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j) Give four books of the Bible with their respective literary forms. (8mks)

.....

k) Identify six attributes of God as shown in the two accounts of creation. (6mks)

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l) List six causes of evil in African traditional society. (6mks)

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m) Explain the meaning of the following terms. (4mks)

d) Promise.....
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e) Faith.....
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n) From Genesis chapter 3 – 11, explain the nature and result (consequences) of sin. (5mks)

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o) Give five characteristics of a good covenant. (5mks)

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p) Outline five ways in which Abraham demonstrated his faith in God. (5mks)

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q) Differentiate between the first and the second accounts of creation. (5mks)

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SET 3 HOLIDAY ASSIGNMENT

ENGLISH

PEER PRESSURE AND SELF-ESTEEM

Positive **self-esteem** is essential to forming solid foundations in one's life. This is in terms of choosing a job or vocation, friends or even whom to marry.

Self-esteem is the value we place on ourselves. This is what we believe and feel about ourselves. It means that you have accepted yourself with your faults as well as your strengths and you feel you deserve the respect of others. You have learned to build on these strengths and to compensate for the weaknesses. What you have been unable to change, you have learned to live with. It does not mean that you are puffed up with self-importance and make false claims but are sincere and accept yourself as a worthwhile individual.

Such a healthy self-respect frees one to turn their attention to others. One is tolerant to others' weaknesses and able to realize people's uniqueness and potential. This eventually helps one to escape the snares of negative peer pressure. Peer pressure refers to the force of persuasion to adopt particular values, conform to the beliefs and goals of a peer group. A peer group refers to age-mates who have the same outlook on life. They have similarities in what they like, how they talk, the way they dress and their focus on life issues. The group also has the same beliefs and written or unwritten rules.

A child is first exposed to peer pressure in school. It is in the class that a child meets new friends and they spend leisure time together. This is the time that peer pressure manifests itself. Due to competition, a leader stands out in the crowd and somehow imposes or enforces his/her beliefs and way of life on others. This leader seems to have more control than others do. Since peer groups are dynamic, they change with time depending on the control of the leader.

In this day and age, the leader does not necessarily have to be a single person. With the current globalization through television, radio, the internet and books and magazines, peer groups are taking on a global nature. Groups look the same in each country and continent. If one is able to control peer pressure early enough, one will be able to cope as an adult. The pressure is more real and impacts more vigorously in the 'adult' world, when one has achieved independence. A person with high self-esteem will question the direction of the peer group but one who has a low self-esteem will succumb and conform to peer pressure without questioning where the group is going.

The consequences of a poor self-esteem are numerous: It limits your capacity to love and accept others. This is because if we do not feel worthwhile at the very core of our beings, we cannot like or respect others. Low self-esteem may encourage one to engage in sex as a way of seeking affection. This, of course, leads to other complications like unwanted pregnancies, sexually transmitted infections, the deadly HIV/AIDs, cervical

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cancer and even the use of pornography. Self-dislike tends to make people highly sensitive to blame and praise. This is because the way one accepts compliments indicates how much respect one has for oneself.

Feelings of inferiority evidence themselves in day-dreaming. Day –dreaming is an effort to escape reality. Unfortunately, the more one daydreams, the worse one feels about oneself. This low opinion decreases efficiency at school or at work. The grades will be affected as one lacks confidence to do what one is engaged in.

A low self-concept also influences one's choice of friends and a marital partner. It even affects couples' sex life in marriage due to a preoccupation with their physical appearances. One who is dissatisfied with their bodies cannot understand how anyone else could find them attractive. This eventually hinders him/her from forming genuine relationships, which require one to forget about self and concentrate on the needs of others.

Low self-esteem will hinder one's spiritual growth and divert their attention to false goals. If one feels they are worthless in certain areas, they may try to gain acceptance by achieving goals that will bring acceptance and approval of others. Real achievements involves developing good character traits. Good inward qualities show up in actions. Some of these actions will be an ability to build a healthy relationship and trust in God to keep one focused in life.

Questions (20mks)

1. What is the importance of having a positive self-esteem? (2mks)

2. According to the passage, what is self-esteem? (2mks)

3. Where does a child first experience peer-pressure? (2mks)

4. Why are peer-groups said to be dynamic? (2mks)

5. What difference is there between someone with low self-esteem and someone with high self-esteem? (2mks)
6. Give any three results of poor self-esteem. (3mks)
7. How does low self-esteem affect the following? (3mks)
- a) Friendship –
 - b) Marriage –
 - c) Spiritual growth –
8. Identify the statement which indicates that a peer-group can be led by more than one person. (1mk)
9. Explain the meaning of the following words as used in the passage. (3mks)
- a) Peer pressure –

b) Day-dreaming –

c) Hinders –

SECTION B (GRAMMAR)

21. Choose the correct forms for each of the following words given in brackets.

(3mks)

a) Jack and James(is, are) over the hill.

b) There(goes, go) Julius and his favourite bag.

c) Susan is one of the singers who.....(is, are) always off key.

22. Fill in each gap with a, an or the to complete the sentences below. (4mks)

a) Is what you are sayinguniversal truth aboutearth?

b) What we need ishourly update.

c) The company is likely to incurhuge loss.

23. Choose the correct alternative from the brackets to complete these sentences.

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(3mks)

- a) (That, These) goose has attractive colours.
- b) (This, These) sheep keep coming into my compound
- c) (This, These) deer have eaten our crops for a long time.

24. Replace the underlined words with a pronoun. (5mks)

- c) The glasses were kept under the table.
- d) Emma fed the children.
- e) The chicken was slaughtered.
- f) They ate fish and chips.
- g) The new waitress is jane.

25. Write the past tense forms of each of the verbs in bracket in the following sentences. (4mks)

- f) The chefa delicious cake (bake)
- g) Heto the classroom (hurry)
- h) He gotby the teacher (annoy)
- i) Shethe whole incident (plan)

iv) Give the plural of each of the following nouns. (6mks)

- a) Furniture –

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- b) Sheep –
- c) Echo –
- d) Chief –
- e) Cactus –
- f) Have –not –

26. Punctuate the following sentences.

(3mks)

- a) Isaac is leahs brother
- b) She was at the stadium yesterday said joan
- c) The play things fall apart is written by chinua achebe

27. Choose the correct word from the choices given to complete the given sentences.

- a) The (principle, principal) of Mbare High school is sick.
- b) Who will give us the correct (defination, definition) of the word

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' Queen'.?

c) The (stationary/stationery) includes books, pencils and rubbers.

SECTION C - ORAL LITARATURE

1. What are trickster narratives? (2mks)
2. What are Ogre narratives? (2mks)
3. Give and explain any two characteristics of trickster narratives. (2mks)
4. Give and explain any two characteristics of Ogre narratives. (2mks)
5. Give two importances of riddles. (2mks)

SET 3 HOLIDAY ASSIGNMENT

AGRICULTURE

- iii) Give **four** aspects that entails agriculture as a science

(2mks)

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- iv) Name **three** branches of horticultural farming.

(3mrks)

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- v) Outline **four** ways in which HIV/AIDS and general health influence agricultural production.

(2mks)

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- vi) State **two** ways in which transport and communication influence the level of agricultural production.

(2mks)

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vii) List **three** biotic factors that influence agriculture negatively (3marks)

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viii) State **four** properties of sandy soil. (2mks)

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ix) Differentiate between extensive farming and intensive farming (2mks)

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x) State **two** advantages of large scale farming
(1mk)

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xi) Outline **four** advantages of practicing mixed farming (4mks)

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xii) Give **four** characteristics of shifting cultivation (4mks)

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xiii) (a) What is organic farming? (1mk)

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(b) State **four** reasons why farmers are encouraged to practice organic farming
(2mks)

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xiv) State the roles of agriculture in the economy of Kenya
(6mks)

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xv) List **four** aspects of rainfall that affect agricultural production in Kenya
(4mks)

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xvi) State **four** ways in which temperature affects agricultural production
(4mks)

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xvii) (a) How does light intensity affect crop production?

(1mk)

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(b) Give **five** ways in which light intensity in a crop field can be increased.

(5mks)

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xviii) Describe **four** ways in which chemical processes influence soil formation

(4mks)

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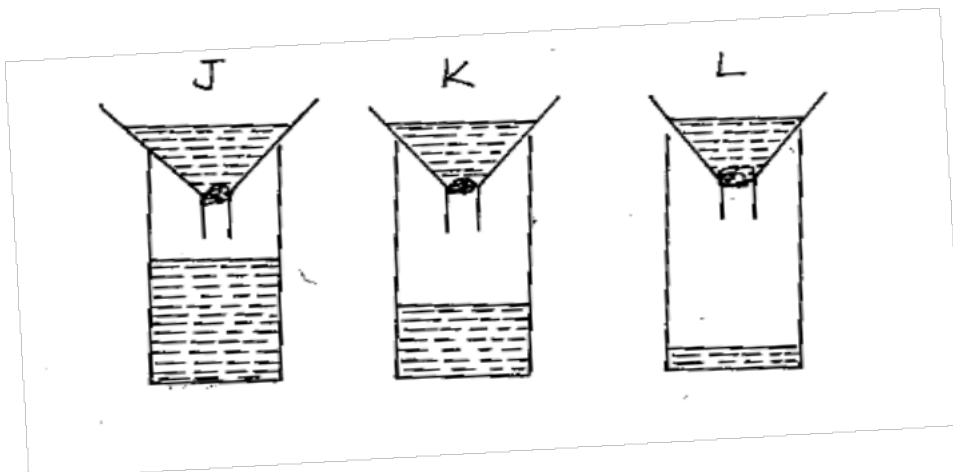
xix) Outline **four** factors that influence soil formation

(4mks)

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.....

xx) The diagram below illustration an investigation on property of soil using samples labeled J,K and L



d) If the level of water drained into the test tubes were observed after two hours, name the

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property of soil being investigated

(1mk)

.....
.....

e) What is the relationship between this property of soil and the size of soil particles

(1mk)

.....
.....

f) Which soil sample will be suitable for growing paddy rice ?

(1mk)

.....
.....

g) Name the type of soil labeled

(3mks)

J.

L.

K.....

e) State **three** characteristics of soil J

(3marks)

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.....

19. State **five** categories of farm tools and equipment

(5marks)

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HISTORY

1. Describe three branches of History and Government. (6 mks)

2. Outline five characteristics of government. (5 mks)

3. Identify four types of government. (4 mks)

4. Outline five unwritten sources of information on history and government. (5 mks)

5. State five limitations of anthropology as a source of information on history and government. (5 mks)

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6. Outline five dating methods used in archaeology. (5 mks)
7. State four reasons for evolution of man. (4 mks)
8. State five characteristics of Homo erectus. (5 mks)
9. State five hunting methods used by man during the old stone age. (5 mks)
10. Describe six ways in which the discovery of fire by early man improved his way of life. (6 mks)
11. Name two theories that explaining the origin of Agriculture. (2 mks)
12. Explain five factors that facilitated the development of early agriculture in Mesopotamia. (5 mks)

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13. Explain five causes of food shortage in third world countries. (5 mks)

14. State five reasons for the migration of the River Lake Nilotes. (5 mks)

15. State three linguistic groups of people of Kenya upto 19th century. (3 mks)

SET 3 HOLIDAY ASSIGNMENT

GEOGRAPHY

INSTRUCTIONS.

Answer all the questions in the spaces provided.

j) a. Give three reasons why it is important to study Geography. (3mks)

b. Name any three study areas in physical geography. (3mks)

ii. List six disciplines related to geography. (6mks)

k) a. What is a line of longitude? (2mks)

b. What is the local time at Alexandria 30°E when the local time at Malindi 40°E is 12:00 noon? (4mks)

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c. What is a solar system? (2mks)

ii. Use the diagram below and answer the questions that follow.



What type of eclipse is represented by the diagram? (1mk)

Name the features marked L and M. (2mks)

L -

M -

d. Define equinox. (2mks)

ii. State the characteristics of summer solstice. (4mks)

l) Name four layers of the earth's atmosphere. (4mks)

b. The table below represent rainfall and temperature of station Y. use it to answer question (i) and (II).

Station Y

Months	J	F	M	A	M	J	J	A	S	O	N	D
Temp °C	21	20	20	17	15	13	12	13	15	16	18	20
Rainfall (mm)	12	12	15	15	90	110	87	87	50	35	20	15

h) In station Y. calculate the mean annual range of temperature.
(2mks)

i) Calculate the annual rainfall for station y. (2mks)

ii. Describe how convectional rainfall is formed. (6mks)

m)State two types of statistical data. (2mks)

ii. What factors must be considered in selecting methods of data collection.
(4mks)

b. marks: 72, 60, 65, 70, 65, 80, 65,70, 80, 84, 63,75,63,71, 74.

i. Use the data above to find out the mean. (2mks)

ii. Use the data above to find out the median. (2mks)

iii. Use the data above and find the mode. (2mks)

j) What is the significance of statistics in geography? (5mks)

ii. Name two main methods used in analyzing statistical data. (2mks)

n) List three types of field work. (3mks)

b. Explain the importance of field work. (5mks)

SET 3 HOLIDAY ASSIGNMENT

KISWAHILI

Soma shairi lifuatalo kisha ujibu maswali yafuatayo.

Gogo

Umezuka moto kweli, misitu yateketea,
Wachanji wameduwili, hakuna pa kukimbia,
Zimewakwama akili, mashoka yanaungua,
Gogo linawaka moto, wachanji tahadharini.

Kwa kweli kila mahali, halaiki yaumia,
Si Kenya si Shelisheli, mamia yaangamia,
Shikeni yangu kauli, msije kujijutia,
Gogo linawaka moto, wachanji tahadharini.

Ijapokuwa kalili, muda wa kuhadithia,
Yapimeni kwa ratili, haya ninayowambia,
Sijengeuka shubili, tamu mnayodhanja,
Gogo linawaka moto, wachanji tahadharini.

Moto huno ni kukuli, hauchomi kuchagua,
Hauna jaji wakili, kwamba utajitetea,
Huchoma kiwiliwili, pingiti likasalia,
Gogo linawaka moto, wachanji tahadharini.

We mchanji kaa tuli, boresha yako tabia,
Kugwenya lile na hili, magongo kujsombea,
Twaja tujipige wali, siku ya kukufukia,
Gogo linawaka moto, wachanji tahadharini.

Ili wepuke muhali, usije kujililia,
Gogo ulo na kibali, chanja ulilozowea,
Usiyachanje mawili, zani utajibwagia,
Gogo linawaka moto, wachanji tahadharini.

Maswali:

k) Shari hili ni la aina gani?

(ala 2)

l) Eleza vina vya shairi hili. (ala 2)

m) (a) Eleza maana ya mizani? (ala 1)

(b) Shairi hili lina mizani ngapi katika ubeti wa tatu mshororo wa kwanza?
(ala 1)

n) Taja kibwagizo cha shairi hili. (ala 1)

o) Taja nchi mbili zilizotajwa katika shairi. (ala 1)

p) Mshairi ametumia uhuru wa kishairi. Eleza huku ukitolea mifano kila maelezo.
(ala 4)

q) Eleza maana ya msamiati ufuatao: (ala 1)
o) Pingiti –

p) Zani –

r) Eleza ujumbe unaowasilishwa na mshairi. (ala 1)

SARUFI: ALAMA 25

xxi) Pambanua sauti hizi kama ni ghuna au sighuna. (ala 1)
/s/

/z/

- xxii) Eleza maana ya shadda. (ala 1)
- xxiii) Tia shadda kwenye maneno yafuatayo ili kuleta maana iliyo katika mabano.
Ala (kifaa)
Ala (mshangao)
Barabara (njia kuu)
Barabara (sawasawa) (ala 2)
- xxiv) Toa mifano miwili ya aina za kamusi. (ala 1)
- xxv) Tunga sentensi moja ili kutofautisha maana ya maneno yafuatayo pafu and bafu. (ala 1)
- xxvi) Taja vipashio vya lugha. (ala 2)
- xxvii) Andika maneno yenye miundo ya silabi ifuatayo;
KKKI
II (ala 1)
- xxviii) Bainisha maneno katika sentensi zifuatazo.
Kitabu kimeanguka chini ya meza. (ala 2)
- xxix) Taja na ueleze aina mbili za viambishi. (ala 2)
- xxx) Jaza viambishi vinavyofaa katika nafasi.
r) Mitikiti ____liyopandwa juzi ____ mimea. (ala 1)
- xxxi) Ainisha viambishi katika sentensi ifuatayo: (ala 3)
Walitupongeza.

xxxii) Taja sifa mbili za lugha. (ala 2)

xxxiii) Onyesha matumizi ya alama zifuatazo za uafikishaji. (ala 2)
Mshazari –

Koloni –

xxxiv) Yaweke maneno yafuatayo katika ngeli mwafaka: (ala 2)
b) Sukari –

c) Chuma –

xxxv) Onyesha matumizi mawili ya kiimbo. (ala 2)

ISIMU JAMII: (ALAMA 10)

c) Eleza kaida za lugha. (ala 4)

d) Taja sifa za sajili ya shuleni. (ala 6)

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SET 3 HOLIDAY ASSIGNMENT

MATHEMATICS

Answer all the questions from this section

1. Write the following numbers in figures

h) Ten thousands and ten (1 mark)

i) One hundred and two billion, three hundred and sixty five million, four hundred and seventy eight thousands and one (1 mark)

2. All prime numbers less than ten are arranged in descending order to form a number.

10. Write down the number formed. (1 mark)

11. State the total value of the second digit in the number formed in (a) above (1 mark)

3. Express 7056 as a product of its prime factors leaving your answer in power form.

xxxvi) marks)

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4. Three bells ring at an interval of 9 minutes, 15 minutes and 21 minutes. The bells will next ring together at 11.00pm. Find the time the bells had last rang together? (3marks)
5. Three tanks are capable of holding 108 litres, 168 litres and 180 litres of milk. Determine the capacity of the greatest vessel which can be used to fill each one of them an exact number of times. (3 marks)
6. Test whether 1 478 019 is divisible by 11. (2 marks)

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7. Evaluate.

(3 marks)

$$\frac{-16 \div 4 + 6 \times 14 - 2 \times -5}{84 \div 14 \times 3}$$

8. Evaluate

(2 marks)

$$\frac{1}{3} \text{ of } \left(\frac{5}{6} - \frac{1}{4} \right) \div \frac{1}{12}$$

9. Express the recurring decimal below as a fraction in simplest form.

(3 marks)

$0.\overline{23}$

10. Evaluate using tables of square roots

(3 marks)

$$\sqrt{0.792}$$

11. Without using mathematical tables or calculator evaluate

(4 marks)

$$\sqrt{\frac{0.0625 \times 2.56}{0.25 \times 0.08 \times 0.5}}$$

SECTION II (20 MARKS)

Answer ALL the questions from this section

12. Kinyua spent $\frac{1}{4}$ of his net January salary on school fees. He spent $\frac{1}{4}$ of the remainder on electricity and water bills. He spent $\frac{1}{9}$ of what remained on transport. If he finally has sh.8400, calculate

a) His total January salary.

(4 marks)

b) Money spent on school fees. (2 marks)

c) Money spent on transport. (2 marks)

d) Money spent on electricity and water bills. (2 marks)

13. A bookstore has 30 816 exercise books which were packed in cartons. Each carton contained 24 exercise books. The mass of an empty carton was 2kg and that of a full carton is 12kg.

d) How many cartons were there? (2 marks)

e) What was the total mass of the empty cartons? (2 marks)

f) What was the total mass of books in one carton? (2 marks)

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g) What was the total mass of all the exercise books? (2 marks)

h) What was the mass of one exercise book in kg to 2 decimal places?(2 marks)

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SET 3 HOLIDAY ASSIGNMENT

1. Distinguish between basic and derived quantity. Give **two** examples in each case. (4mks)

2. Complete the table below. (7mks)

QUANTITY	SI UNITS	SYMBOL OF SI UNITS
LUMINOUS INTENSITY		
	AMPERE	
		K
	KILOGRAM	
		S
	MOLE	
LENGTH		

3. Explain instances where physics is related with the following. (4mks)

a) Biology-

b) Geography-

4. A test-tube has a diameter of 3cm. how many turns would a piece of thread of length 90.42cm make round the test tube.(Take $\pi=22/7$) . (3mks)

5. Define the following branches of physics. (4mks)

a) Waves-

b) Mechanics-

6. a) Draw a burette filled with water to a volume of 28cm^3 . (2mks)

b) 60 drops fell from a burette. The first and final readings were 28cm^3 and 42cm^3 respectively. What is the average volume of one drop. (3mks)

7. Differentiate between vector and scalar quantity giving relevant examples in each case. (4mks)

8. Determine the density in SI Units of a solid of mass 40g with dimensions 30cm by 4cm by 3cm. (4mks)

9. Define surface tension and state two factors affecting surface tension. (3mks)

10. State **two** major differences between mass and weight. (4mks)

11. 1600cm^3 of fresh water of density 1g/cm^3 are mixed with 1200cm^3 of sea water of density 1.2g/cm^3 . Determine the density of the mixture. (4mks)

12. A body weighs 65N. Calculate its mass. ($g=10\text{N/Kg}$) (2mks)

13. Define pressure giving its SI Units. (2mks)

b) State any **two** factors affecting pressure in liquids. (2mks)

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14. A block measuring 20cm by 10cm by 5cm rests on a flat surface. The block has a weight of 3N. Determine the maximum pressure it exerts on the surface. (3mks)

15.a) Define force and state its SI Units. (2mks)

b) Find the resultant of a force 4N and 8N acting at the same point on an object if the forces act in the same direction in the same straight line. (2mks)

16. Explain the following observations:

i) Water wets glass surface but does not wet the waxed glass surface. (2mks)

ii) A steel needle placed carefully on the surface of water does not sink. (2mks)

iii) A matchstick rubbed at one end with soap starts moving immediately in one direction when placed on the surface of water. (2mks)

iv) The mass of a lump of gold is constant everywhere, but its weight is not. (1mk)

v) Large mercury drops form oval balls on a glass slide. (2mks)

17. A sphere of diameter 6.0cm is moulded into a thin uniform wire of diameter 0.2mm. Calculate the length of the wire in metres. (Take $\pi=22/7$) (3mks)

18. An astronaut weighs 900N on earth. On the moon, he weighs 150N. Calculate the moon's gravitational strength. (3mks)

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