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MKALAMA DISTRICT COUNCIL

FORM THREE TERMINAL EXAMINATION

BIOLOGY

TIME 3:00 **MAY 2025**

INSTRUCTIONS

- This paper consists of three sections A, B, and C with a total 11 questions
- Answer all questions in section A and B and two question in section C
- All writing must be in black or blue ink
- Write your name on top of every page

SECTION A (16 MARKS)

1. Choose the correct answer in the questions

i) Are conditions or factors that can change or be changed in an experiment.
   A. Hypothesis
   B. Problems
   C. Variable
   D. Conclusion
   E. Experiment

ii) If you asked to prepare a first aid kit with its components, which of the following you will not include?
   A. Iodine tincture
   B. Sterilized cotton wool
   C. Medicine to care disease
   D. Pair of scissors
   E. Soap

iii) Viruses are considered to be non-living because ----------
   A. They are only active in the contents of living thing cell
   B. They have true nuclei
   C. The body is covered by cell wall
   D. They are single cell eukaryotic organism
   E. They have cell wall

iv) Which of the following is a chemical substance that catches fire easily?
   A. Corrosive
   B. Flammable
   C. Oxidant
   D. Irritant
   E. Harmful

v) Which of the following diet should be added to the diet of lacting mother?
   A. Groundnuts
   B. Fish
   C. Cassava
   D. Orange
   E. Water

vi) The movement of bulk fluid materials along a vessel or tube is termed as…….
   A. Osmosis
   B. Diffusion
   C. Mass flow
   D. Transport
   E. Transpiration

vii) Which among of the following is not an infection and disease of the respiratory system?
   A. Asthma
   B. Bronchitis
   C. Pneumonia
   D. Emphysema
   E. Leukemia

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viii) Eating of the forcefully removing the food from the body immediately is known as----------
A. Obesity
B. Marasmus
C. Bulimia nervosa
D. Kwasha kor
E. Rickets

ix) A person who suffers from night blindness is likely to be lacking…….
A. Vitamin C
B. Vitamin A
C. Vitamin B12
D. Vitamin D
E. Vitamin B2

x) In order to avoid dislocation during movement two bones are hold together by strong tissues which are known as……
A. Muscles
B. Tendons
C. Cartilage
D. Ligaments
E. Joint

2. Match the component of skeleton in LIST A with their corresponding component of skeleton in LIST B by writing the letter of the correct response beside the item number in the answer sheet provided.

LIST A	LIST B
i). Axial component which protect the spinal cord ii). Appendicular component which provide large surface area for muscles attachment and the base for articulation with upper arm bone iii). Appendicular component which provide large surface area for muscles attachment and a base for articulation with hind limb iv). Axial component which protect the delicate internal organs such as heart and lung. v). Axial component which protect the brain and provide area for attachment of the neck vi). Axial component which fussed together to form sacrum which transmit the weight of the stationary state to rest of the body.	a. Pectoral girdle b. Skull c. Rib cage d. Cervical vertebrae e. Pelvic girdles f. Sacral vertebrae g. Vertebral column

SECTION B. (54MARKS)

3. When form one students visited biology laboratory, they found out different equipment which were not familiar to them. As a form three student, explain to the roles of the following equipment: -
i. Mortar and pestle
ii. Glass watch

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iii. Hand lens
iv. Measuring cylinder
v. Test tube
vi. Test tube holder

4. (a) (i) name any four factors required for the formation of carbohydrate in plant
(ii) why is water an a essential part of our diet (any three points)
(b)(i) with an example in each case differentiate between hazardous and non-hazardous waste
(ii) mention two proper ways of disposing waste.
5. The headmaster of **MIKOCHENI** Secondary School was served with hot coffee in a glass.

He lifted up the glass of coffee and suddenly dropped it due to its extreme hotness causing

it to break into pieces

i. Name the action which took place in the headmaster's body

ii. Suggest the name of the pathway followed during this action

iii. Draw a well labelled diagram showing components of the nervous coordination for

the action which took place the headmaster's body.

6. (a) outline three (3) similarities between angiospermophyte and coniferophyte

(b) Differences between division angiospermophyta and coniferophyta (3 points)

7. (a) it is not true that the function of human being skeleton is only to determine the shape like most of the people say. By using the knowledge of biology you have support the above statement with five point.
(b) state two different between skeletal muscles and cardiac muscle
(c) what features of the joint enable it to reduce friction (two point)

8. (a) Suppose there are the following organisms in the ecosystem: Grass, Goat, Hen, Vulture, Grasshopper, Lizard and human being

i. Construct a food web from the list provided organisms above
ii. From food web in which you construct which organisms are
a) Producers b) primary consumers c) Secondary consumers
b) Which important group of organisms should be included in the provided organisms to make the ecosystems balanced?

SECTION C

Answer only two (02) questions,

9. There are lot of microorganisms around us which can cause harm to our health. Justify with five (05) points on how our bodies defend themselves against them.
10. Your brother who is a fisherman caught many fish. Some fish were sold, other were given to friends and neighbors and some remained. (a) What would you advice him in order to preserve the remained fish bearing in your mind that there is no electricity in his area.
(b)Explain three Advantages of ways used in 10 (a) above.
11. On his way home James heard a strong voice of lion. Describe the mechanism which enabled James to hear the voice.