

**PRESIDENT'S OFFICE
REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT**

**NEWALA DISTRICT COUNCIL
FORM TWO JOINT MID-TERM EXAMINATION
BIOLOGY**

TIME: 2:30 HRS

MARCH 2024

INSTRUCTIONS

1. This paper consists of three sections A, B and C with a total of 10 questions.
2. Answer all questions in each section.
3. All writings must be in black or blue ink, except for diagrams which must be in pencil.
4. Cheating is not allowed.

SECTION A (15 MARKS)

1. For each item (i) – (x) choose the correct answer from among the given alternatives and write its letter beside the item number.
 - (i) A form one students wants to observe the external structure of a leaf by using a light microscope. Which part of microscope do the leaf will be placed?
A. Eye piece (B) Objective lens (C) Mirror (D) Stage
 - (ii) Which one of the following groups contains organisms that belong to kingdom fungi?
A) Amoeba, Spirogyra and Yeast. (B) Mirror, Mushroom and Algae
(C) Yeast, Mushroom and Mucor (D) Yeast, Paramecium and Algae
 - (iii) Imagine you are in the biology laboratory conducting a food test experiment, Which apparatus will you use to take small amount of iodine solution from the reagent bottle?
(A) Dropper (B) Spatula (C) Conical flask (D) Beaker
 - (iv) A doctor diagnosed that a patient had gonorrhea. Which one of the following was among of the symptoms observed by a doctor?
(A) Paralysis (B) Blindness (C) Greenish-yellowish discharge (D) White discharge.
 - (v) Which of the following is a nutrient we get when we eat Cassava?
A) Protein (B) Carbohydrate (C) Vitamins (D) Lipids
 - (vi) Which practice among the following affect our healthy?
A) Exercising (B) Taking balanced diet (C) Having a time to rest (D) Taking alcohol
 - (vii) Organisms which do not have cells with organized nuclei are called
(A) Prokaryotes (B) Akaryotes (C) Ukaryotes (D) Eukaryotes
 - (viii) Form two student were guided to group, ferns, mosses, mushroom and Yeast by using observed features. Which type of classification system they were using?
A) Natural (B) Artificial (C) Taxonomy (D) Binomial Nomenclature.
 - (ix) If your father buy 5 kilograms of fresh fish. Which of the following methods will be suitable

modern method for preserving those fish so that they can stay for long time?

- A) Curing (B) Smoking (C) Salting (D) Refregeneration

(x) Which one of the following sentences is a correct meaning of Biology

- A) The study of living and non-living things
B) The study of known and unknown things
C) The study of plants and small living things
D) The study of life and living things

2. Match the phrase in LIST A with response in LIST B by writing the letter of the correct responses from LIST B below the item number of LIST A in a table provided.

LIST A	LIST B
i. Keep into position that will enable it to get maximum amount of san light	A. Spongy mesophyl B. Palisade mesophyll C. Mid-rib and veins D. Cuticle E. Chlorophyll F. Epidermis G. Guard cells H. Stomata I. Petiole leaf stalk
ii. Contains xylem and phloem	
iii. Trap sunlight energy	
iv. Consist of air space and Vascular tissues	
v. Small pores that allow oxygen and Carbon dioxide to diffuse in and out of the leaf	

SECTION B (70 MARKS)

3. (a) What do you understand by the following terms
(i) Immunity
(ii) Diseases
(iii) Vaccine
(b) (i) Your friend do not understand the difference between communicable and non-communicable diseases. How can you help him or her to differentiate these terms?
(ii) Outline two examples of sexually transmitted disease/infection
4. (a) Suppose you have elected as a health and environment leader. Explain three ways that are suitable for disposing waste in your school.
b) What are the effects of poor waste disposal in your school.
5. A) State the use of the following components of First aid kit
i) Thermometer
ii) Petroleum jelly
iii) Plaster
iv) Liniment
b) Why it is important you as a student to practice personal hygiene and having good manners?

6. A) Draw a well labeled diagram of a plant cell as seen under light microscope.
 B) (i) The following terms are arranged in alphabetical order, Rearrange them into an appropriate biological sequence, starting with the lowest level.
 CELL ➡ ORGAN ➡ ORGANISM ➡ SYSTEM ➡ TISSUE.
- (ii) Name three main parts that are present in both plant and animal cell.
7. a) How the digestive system of man differ from that of a cow?
 b) Draw a diagram of Human digestive system and label the following parts.
 i) Mouth (ii) Oesophagus (iii) stomach (iv) Ileum (v) colon
8. a) State three phyla of kingdom Fungi
 b) Explain two distinctive features of kingdom fungi
9. a) Explain 3 nutrients required for a 5 old year's child.
 b) Suppose your biology teacher have prepared a sample solution and asked to conduct a food test experiment to identify the nutrients present in a sample solution. Outline procedure that you will follow when you will be testing for the presence of
 i) Starch
 ii) Reducing sugar

SECTION C (15 MARKS)

10. Form one students have ask you that why they have to study biology. Elaborate to them six importance of studying biology.