

**MKALAMA DISTRICT COUNCIL
FORM ONE TERMINAL EXAMINATION
BIOLOGY**

TIME: 3.00HRS

MAY 2025

INSTRUCTION

- i. This paper contains of section A, B and C
- ii. Attempt all questions in both sections.

SECTION A:(15 MARKS)

1. For each of items i-x choose the most correct answer from among the given alternatives and write it's letter in the box provided.

(i). Which of the following is not a field of study related to Biology?

(A). Agriculture (B). Astrology (C). Medicine (D). Nutrition ()

(ii). Which of the following is not a contribution of Biology in the field of forestry?

(A). Fast maturing plants (B). Increased desertification (C). Varieties of trees that grow well in arid areas (D). Solutions to plant diseases and pests ()

(iii). Which of the following is a branch of Biology?

(A). Sociology (B). Agriculture (C). Anthropology (D). Botany. ()

(iv) Which of the following is not sense organ

(A). Ear (B). Skin (C). Teeth (D). Eye. ()

(v). All of the following are part of light microscope except

(A). Eyepiece (B). Beaker (C). Condenser (D). Objective lens. ()

(vi). Which of the following is the most important basic difference between plants and animals?

(A). Growth (B). Reproduction (C). Nutrition (D). Movement. ()

(vii). Conditions or factors that can change or be charged in an experiment

(A). Hypothesis (B). Problem(C).Experiment (D). Variables ()

(viii). The following is the best description about irritability?

(A). Removal of waste products (B). Ability to move from one place to another.
(C). Increased in size of organism (D). Ability to respond to environmental changes. ()

(ix) a person peaks a telephone after hearing it is ringing, which characteristics of living thing is the person showing by this action?

(A). Excretion and movement (B). Respiration and nutrition (C). Irritability and movement
(D). Respiration and movement. ()

(x). Which of the following is the functional unit of life:

(A). Tissue (B). Cell (C). Organ (D). System. ()

2. Match the item from list A with the corresponding item in list B and fill it in the space provided

LIST A	LIST B
I. Tape measure	A. 0°C
II. Temperature	B. Fahrenheit
III. Weighing scale	C. Second
IV. Freezing point of water	D. 100°C
V. Time	E. Length
	F. Mass
	G. Days
	H. Microscope

SECTION B: (70 MARKS)

3. Identify the step of the scientific method in each of the following situations;

i) John is not feeling well, he goes to see a medical doctor at a nearby hospital.

ii) The doctor asks John several questions about how he feels.

iii) The doctor orders John's body temperature, blood and urine samples be measured and diagnosed in the laboratory.

iv) The laboratory technician diagnoses malaria parasites in John's blood.

v) The doctor confirms that John has malaria and prescribes medicine for him.

4. Differentiate;

(a) Prokaryotic from eukaryotic cells

(b) Organ from tissue

5. (a). Define the following biological terms

i. Mycology

ii. Parasitology

(b) mention and define three main branches of biology.

6. Briefly explain the functions of any three specialized cells in plants

7. Identify the apparatus or equipment you can use to perform each of the following biological activities

- i) Catch a frog from a pond in order to study its external features
- ii) Collect insects and small animals from the school compound
- iii) Estimate the number of small organisms per square metre
- iv) Grinding and crushing a solid substance
- v) Magnify specimens under observation

8. Name the instrument you would use to measure the following and state their corresponding SI units

- i) Time
- ii) Mass
- iii) Temperature
- iv) Length

9. Outline five reasons why is it important to study biology?

SECTION C: 30 MARKS

10. a) Give two similarities between plant and animal cell.

b) Draw a diagram of an animal cell and label the parts which perform the following functions

- i) Energy production
- ii) Control all the functions of the cell
- iii) Suspended organelles
- iv) Allow passage of some substances