

BIOLOGY

FORM ONE

OPENER EXAMINATION: TERM 2 2024

TIME 2 HOURS

MARKING SCHEME

1. State the major branches of biology. (2mks)

Biology

Botany

2. What are the main reasons of studying Biology in school. (4mks)

Recording

Classifying

Measuring

Evaluating

Identifying

Observing

3. What is meant by the term Biology. (1mk)

Study of life

4. List five professional occupations that require the study of biology. (5mks)

Medicine, public health, nursing, veterinary, dentist, animal husbandry, teaching nutrition

e) 5. Define the following terms as used in biology.

a) Ecology (1mk)

The study of living organism and its's surrounding

b) Genetics (1mk)

The study of the inheritance and variation

c) Cytology (1mk)

The study of the cell

d) Microbiology (1mk)

The study of microscopic organism

e) Mycology (1mk)

The study of fungi

6. List four characteristics of living things. (4mks)

Movement, reproduction, nutrition, irritability, gaseous exchange, growth and development, excretion, respiration

7. State the function of each of the following apparatus. (4mks)

i) Sweep net – **Used for catching flying insects**

ii) Pooter – **Used for sucking small crawling animals on the back of trees or on the rocky surfaces**

iii) Balt trap – **Attract and trap crawling animals**

iv) Specimen bottle – **Keeping of collected specimen**

v) Pitfall trap – **For caching crawling animals**

8. What is the term given to this areas of study. (6mks)

i) Study of parasite

Parasitology

ii) Study of classification of living organisms

Taxaonomy

iii) Study of fungi

Mycology

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iv) Study of siset

Entomology

v) Study of tissues

Histology

vi) Study of viruses

Virology

9. List four differences between plant and animals. (8mks)

Plants	Animals
1. Locomotion is absent	They locomote
2. Absence excretory organs	Presence of complex excretory organs
3. Respond slowly to changes on the environment	Respond very fast to changes on the environment
4. Has chlorophyll	Absence of chlorophyll
5. Their cells has cell wall	

10. State 5 kingdoms and in each case, give an example of an organism. (10mks)

- i) **Monera Bacteria**
- ii) **Proctista amoeba**
- iii) **Fungi yeast mushroom**
- iv) **Plantae maize beans grass**
- v) **Animalia tapeworm, bird human beings e.t.c**

11. State the taxonomic units into which living organisms are subdivided in ascending order. (7mks)

- Species**
- Genus**
- Family**
- Order**
- Class**
- Phylum/Division**
- kingdom**



12. Give a reason why scientific names are in latin. (1mk)

It was the commonly used language by the scientist

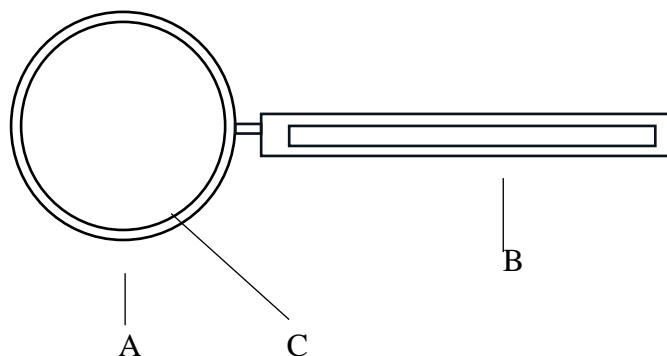
13. Define the term species. (1mk)

Unit of classification whose members inbreed and produce viable offsprings.

14. The scientific name for the black jack plant is *Biden Pilosa* which taxonomic group does the name Biden refer to. (1mk)

Genus

15. Study the diagram below.



a)Name the following parts.

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A - **Flame**

B - **Handle**

C – **Convex lens**

b) Which part of the diagram is used in magnification. (1mk)

Convex lens

16. a) Explain the meaning of the following.

i) Respiration. (1mk)

Breakdown of food to release energy in living cells

ii) Irritability (1mk)

Ability to detect change and respond to it

iii) Movement (1mk)

Rules governing the scientific naming

b) State two principles of binomial nomenclature. (2mks)

i) Organisms should have two names species and genus name, genus name should start with capital letters species should be in small letters.

ii) If printed the names should be in italics but if handwritten manuscripts and typed it should be underlying separately.

iii) Newly discovered organism should be given a letternised name.

iv) Most of species name are adopted from the names of the organisms.

