

MARKING SCHEME

BIOLOGY

FORM ONE TERM 1

INSTRUCTIONS: ANSWER ALL QUESTIONS IN THE SPACE PROVIDED.

1. Define the term biology. (1mks)
 - i. **Biology is the scientific study of living things**
2. List three importance of studying biology (3mks)
 - i. **Helps in solving environment problems e.g. food shortage.**
 - ii. **Helps to enter into careers e.g. medicine**
 - iii. **Helps to get skills useful in everyday life. e.g. recording and analyzing.**
 - iv. **The knowledge is important in international cooperation.**
3. List eight characteristics of living things (8mks)
 - i. **Nutrition – growth and development.**
 - ii. **Respiration – reproduction**
 - iii. **Gaseous exchange- irritability**
 - iv. **Excretion – movement and locomotion.**
4. List four careers that required knowledge in biology (4mks)
 - i. **medicine – tourism**
 - ii. **pharmacy – vetering medicine- dentistry**
 - iii. **Nursing – public health.**
5. Give the meaning of the following terms (4mks)
 - i. **Respiration – process by which food (organic compounds) are broken down to produce energy**
 - ii. **Nutrition – process by which living things acquired and utilize nutrients**
 - iii. **Reproduction – process by which living things give rise to new individuals of the same kind.**
 - iv. **Locomotion – progressive change in position of the whole organism.**
6. The table below shows branches of biology. Fill the gaps

branch	Field of study
i. Genetics	Variation and inheritance
ii. Parasitology	Study of parasites
iii. Taxonomy	Study of classification.
iv. Cytology	Study of cells
v. Entomology	Study of insects
vi. Ecology	Study of living things & environment
vii. Microbiology	Study of microorganisms.
viii. Morphology.	Study of external structure of organisms.

7. Why do we collect specimen in biology (1mk)
For proper study in the laboratory
8. Name six apparatus used in handling and collection of specimen giving an example in each (6mks)
- i. **Sweep net – flying insects**
 - ii. **Pooter – small animals, barks of trees**
 - iii. **Fishnet – small fish, small water animals.**
 - iv. **Bait trap- rats**
 - v. **Pit fall trap – crawling animals**
 - vi. **Pair of forceps- stinging insects.**
 - vii. **Specimen bottle –storage**
9. State four precautions during collection and observation of specimen .(4mks)
- i. **Collect only required number , avoid wastage**
 - ii. **Avoid destroying their habitat**
 - iii. **Handle injurious specimen with care**
 - iv. **Do not harm specimen during collection**
 - v. **Return the specimen alive to their habitat**
10. A tractor is able to move and break down fuel to carbon(iv) oxide and water, yet it is not classified among living things .List other characteristics that are not shown by a tractor.(3mks)
- i. **Growth and development**
 - ii. **Reproduction**
 - iii. **Irritability**
11. Tabulate four differences between plants and animals .(8mks)

<p>Plants</p> <ul style="list-style-type: none"> -Don't move about -cells have cellulose cell wall -Respond slowly to changes in the surrounding -Have chlorophyll , make own food -Lacks specialized excretory organs 	<p>Animals</p> <ul style="list-style-type: none"> -Move about for food water etc -Cells lack cellulose cell walls -Respond quickly to changes in the environment -No chlorophyll ; depends on already made food -Have specialized excretory organs
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