

**PRESIDENT'S OFFICE
REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT
LINDI REGION
FORM FOUR MOCK EXAMINATION
BIOLOGY 2A (Actual Practical)**

033/2A

MARKING SCHEME

MAY 2023

1. From specimens N1,N2,N3 and N4

(a) Identification of specimens – **(01 mark @ = 04 marks)**

SPECIMEN	COMMON NAMES
N1	Pine leaves
N2	Maize seedling
N3	Grasshopper
N4	Earth worm

(b) Classification of specimen N2,N3 and N4 – **(01 marks@ = 09)**

SPECIMEN	KINGDOM	PHYLUM/ DIVISION	CLASS
N2	Plantae	Angiospermophyta	Monocotyledonae
N3	Animalia	Arthropoda	Insecta
N4	Animalia	Annelida	Oligochaeta

(c) From specimen N1 the significant of : – **(01 mark@ = 02 marks)**

- (i) Needle leaves – is to reduce the rate of transpiration
- (ii) Green color – is for facilitating photosynthesis

(d) (i) Specimen N4

- **ADVANTAGES TO FARMERS:** **(01 mark@ = 03)**

- Increases soil fertility by feeding on different plants
- Increases soil aerations by burrowing in soil
- Improves soil texture

(ii) Diagram of specimen N₄: **Diagram– 2Marks, Labelling-2marks(0.5@), Title – 1mark**

Total = 05 Marks

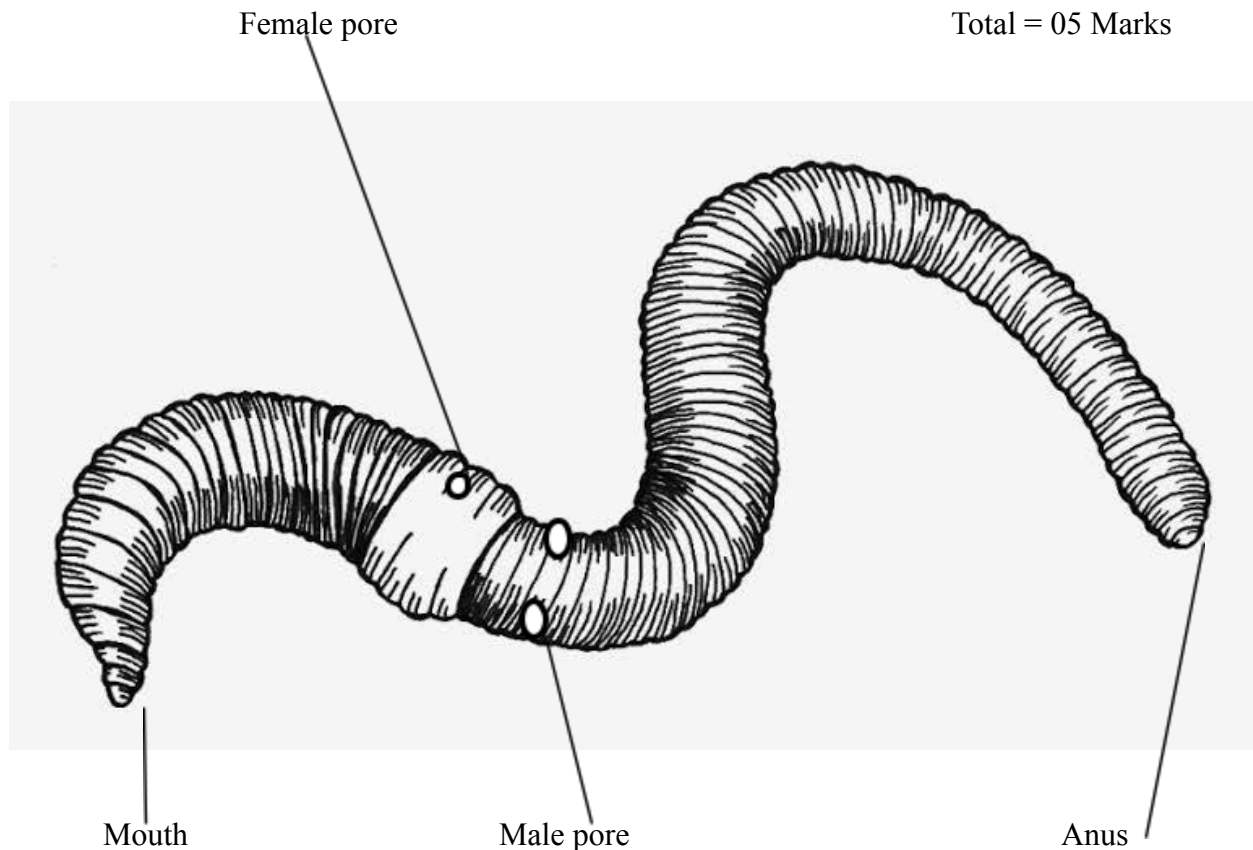


Diagram of specimen N₄

(e) The contribution of the kingdom in which specimen N₁ and N₂ belong towards middle income economy: **(01 mark@ = 02)**

- They are used as building materials
- They are raw materials for manufacturing different products
- They are used as tourist attraction

2. a) Grass ——— Grasshopper ——— Lizard ——— Mushroom.

(3 marks)

b) - There will be no food for higher consumers, hence they will decrease (the ecosystem will be disturbed)

- Grasses will increase and Lizards will decrease **(3 marks for any correct reason)**

c) Forest

(2 marks)

d) - Drying of vegetation

- Shortage of water in water sources

- Can lead to wildfire

- Migration of living organisms

(Any two correct point 1.5@ = 3marks)

e) i) Decomposer – Mushroom

ii) Herbivore – Grasshopper

iii) Producer – Grass

iv) Secondary consumer – Lizard

(2@ = 8 marks)

f) Because at each trophic level some of the energy is used to drive different life processes such as excretion, respiration and movement, hence the energy decrease from bottom to the top trophic level.

(3 marks)

g) – It facilitates the flow of energy in the environment

- It to maintain the balance of the total number of organisms in the environment

- It shows how organisms depend on one another

- Displays what happen when a problem occurs to producers or consumer or when one among them is lost.

(1.5@ = 3marks)

