

**THE PRESIDENT'S OFFICE
REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT
NEWALA DISTRICT COUNCIL
FORM FOUR MID TERM TEST JOINT**

033/2A

BIOLOGY 2A

(ACTUAL PRACTICAL A)

Time: 2:30 Hours

March, 2024

Instructions

1. This paper consists of **two (2)** questions. Answer **all** questions.
2. Each question carries **25** marks.
3. All writings should be in **blue** or **black** ink except diagrams which must be in **pencil**.
4. Cellular phones and any unauthorized materials are **not** allowed in the examination room.

1. You provided with the solid sample C and distilled water. Fill the beaker/conical flask with distilled water. Using a spatula put a crystal of sample C in a beaker /conical flask of water and observe the changes in the mixture for 5 minutes then answer the questions that follow.
 - (a) Explain what you have observed.
 - (b) Draw a conclusion from your observation.
 - (c) Name the physiological process that is investigated in your experiment.
 - (d) Define the process named in (c) above
 - (e) Outline two significance of the process named in (c) above to both animals and plants.
 - (f) Write down two organs found in human body that perform their work by the process mentioned in (c) above
2. Carefully study the specimens B, F, G, O and U and answer the following questions.
 - (a) (i) Identify one feature which may influence the artificial classification system to place both specimens B and G into the same taxonomic group.
(ii) Outline two demerits of the system used to place both specimens B and G into the same taxonomic group.
 - (b) (i) Classify each of the specimens B and G to class level.
(ii) Name four organisms which share the same class with specimen G.
(iii) In what ways members that are placed with specimen U in the same kingdom are advantageous in our daily life?
(iv) Draw the diagram of specimen G and label only structures responsible for locomotion and vision.
 - (c) (i) Why members of the division in which specimen O belongs are considered to be the most primitive plants on earth? Give a reason.
(ii) In what ways does specimen O differ from specimen F? Give two points