



TANZANIA HEADS OF ISLAMIC SCHOOLS COUNCIL
FORM SIX INTER ISLAMIC MOCK EXAMINATION

BIOLOGY 3A
(ACTUAL PRACTICAL)

(For Both School and Private Candidates)

133/3A

TIME: 3:20 HOURS

Monday, 10th March 2025 a.m.

Instructions

1. This paper consists of **THREE (3)** questions.
2. Answer **ALL** questions.
3. Question one carries twenty (20) marks and the other two (2) carry fifteen (15) marks each.
4. All writing must be in a blue or black ink, except for drawing which must be in pencil.
5. Cellular phones and any unauthorized materials are **not** allowed in the examination room.
6. Write your **Examination Number** on every page of your answer booklet(s).

1. You are provided with specimen S₁, dissect specimen S₁ fully and display the viscera in situ.
 - (a) Draw a neat diagram of the dissected specimen S₁ and label ten (10) parts.
 - (b)
 - (i) Identify the associated organs of digestive system present in the specimen.
 - (ii) Explain the digestive role played by each of the associated organs identified in (b) (i).
 - (iii) Describe how each of the associated organs identified in b(i) is adapted to reform its digestive role in the specimen.
 - (iv) Explain how each associated organs identified is adapted to regulate sugar in the body of the specimen.
2. You have been provided with specimens E₁ and E₂ for food substances identification.
 - (a) Explain how you will prepare solutions from E₁ and E₂ for identification of food substance they contain.
 - (b) Carry out food test experiments to identify the food substances present in specimen E₁ and E₂. Tabulate your experimental work as shown in the table below:

Food tested	Procedures	Observations	Inference

- (c) For the food substances identified in (b) above:
 - (i) Name the end products of their digestion.
 - (ii) State the part of the body where excess end products in (i) are stored.
 - (iii) State the function of each substance identified in (b) in the human body.
 - (iv) Mention the enzymes responsible for their digestion.
 - (v) Name the part of alimentary canal in which there is mainly absorption of end products of identified nutrients in 2(b) above.

3. You have been provided with the specimens L, M, N and O. Observe them and then answer the questions that follow:
- (a)
 - (i) Identify specimens L and M by their common names.
 - (ii) Classify specimen L to class level.
 - (iii) Describe features used to place specimen M in its phylum. Give three (3) points.
 - (b)
 - (i) Identify specimen N by its common name.
 - (ii) How is it adapted to its mode of life? Give four (4) points.
 - (iii) Elaborate on the significance of specimen N in the agricultural sector.
 - (c) Carefully study specimen O then use the scalpel, carefully remove all sepals, petals and the entire stamen tube.
 - (i) Give a biological name of the remaining part of specimen O.
 - (ii) Predict the type of pollination likely to occur in specimen O and give reasons to support your answer.
 - (iii) Draw a well-labeled diagram illustrating the structures of the remaining part of specimen O.

Wabillah Tanfiq