

**THE UNITED REPUBLIC OF TANZANIA
PRESIDENT'S OFFICE,
REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT
NJOMBE REGION**



FORM SIX PRE – NATIONAL EXAMINATION

CODE: 133/3A

BIOLOGY 3A

(For Both School and Private Candidates)

TIME: 03: 20 HOURS

TUESDAY, 18TH March 2024 A.M

INSTRUCTIONS

1. This paper consists of three (3) questions.
2. Answer all questions.
3. Question 1 carries **20 Marks** and other two carries **15 Marks** each.
4. All writing should be in **Blue** or **Black** ink, except diagrams, which must be drawn in pencil.
5. Calculators, cellular phones and any unauthorized materials are not allowed in the examination room.
6. Write your examination number on every page of your answer sheet(s) provided.

1. You are provided with specimen S_1 . Dissect the specimen to fully display the body cavity undisturbed condition (Insitu).

Leave your dissection properly displayed for assessment.

- a) Make a large, neat and well labeled diagram of the dissection
- b) Classify the specimen to class level
- c) Give two visible external evidences justifying the sex of specimen
- d) i) Name two organs associated with digestion
ii) State the endocrine functions of an elongated, tapered organ located across the back of the belly, behind the stomach.

2. You have been provided with sample solution S_2 . Run the food test to identify the food sample present in the sample solution S_2

- a) Tabulate your records from the experiment as shown in table below

Test for	Procedure	Observation	Inference

- b) What kind of food sample was present in sample solution S_2 ?
 - c) Name the places in the digestive system and digestive enzymes responsible for digesting food substances found in sample solution S_2 in all part of the alimentary canal.
 - d) One of the food substance identified in the sample can be stored in the human body
 - i. Name the food substance
 - ii. State the form in which it can be stored
 - iii. Name the organ responsible for its storage.
3. You are given with the following specimens A, B, and C. Observe carefully specimen given using the hand lens provided. Then answer the following questions:-
 - a) Give the common names of specimen given.
 - b) Classify specimen A and B to phyla/division level and C to class level.
 - c) In what ways the kingdom of specimen A harmful?
 - d) Draw a well labeled diagram of the specimen B