

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



FORM SIX PRE – NATIONAL EXAMINATION

CODE: 133/3B

BIOLOGY 3B

(For Both School and Private Candidates)

TIME: 03: 20 HOURS

FRIDAY, 22ND 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 have been provided with specimen S₁. Dissect the specimen S₁ in a usual way and display the digestive system on the right side of the animal.

LEAVE YOUR DISSECTION PROPERLY DISPLAYED FOR ASSESSMENT.

- a) Draw a well labeled diagram of your dissection.
- b) State one role played by each part which makes up
 - i. Fore gut
 - ii. Mid gut

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

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

Test for	Procedure	Observation	Inference

- ii) For each of the food substance identified in 1(a)
 - a) Name common source of the food substance identified
 - b) State their roles in human body.
- iii) The digestion of one of the identified food in 1(a) starts at the mouth
 - a) Name the food substance
 - b) Identify the enzyme responsible for its digestion in the mouth
- iv) The digestive system of human being has several parts
 - a) Name the part of digestive system in which most of digestion and absorption of food takes place
 - b) Draw the structure which is responsible for absorption of end products of digestion in the named part in (i) above

3. You are given with the following specimens AA, BB, and CC. 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 AA, BB and CC to class level.
- c) In which way specimen AA is beneficial to farmers
- d) What are the economic importance of the kingdom to which the specimen BB and CC belongs?