THE UNITED REPUBLIC OF TANZANIA NATIONAL EXAMINATIONS COUNCIL OF TANZANIA ADVANCED CERTIFICATE OF SECONDARY EDUCATION EXAMINATION

133/3A

BIOLOGY 3A (ACTUAL PRACTICAL A) (For Both School and Private Candidates)

Time: 3:20 Hours

Thursday, 09th May 2019 a.m.

Instructions

- 1. This paper consists of three (3) questions.
- 2. Answer all the questions.
- 3. Question one (1) carries 20 marks and the other two (2), 15 marks each.
- 4. All answers must be written in the answer booklet(s) provided.
- 5. Except for diagrams which must be drawn in pencil, all writing should be in blue or black ink.
- 6. Calculators, cellular phones and any unauthorized materials are **not** allowed in the examination room.
- 7. Write your **Examination Number** on every page of your answer booklet(s).





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You have been provided with specimen S_1 . Dissect specimen S_1 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 large, neat, well labeled diagram of your dissection.
- (b) State one role played by each part which makes up the following:
 - (i) fore gut

1.

- (ii) mid gut.
- 2. You have been provided with solutions S_2 and S_3 .
 - (a) Identify the food substances present in each of the solutions S_2 and S_3 by using the chemicals and reagents provided only. Tabulate your work as shown in following table.

Food Tested	Procedure	Observation	Inference
	1-11-1		
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- (b) Which of an excess food substance identified in 2(a) is eliminated from the body?
- (c) Briefly explain the process responsible for the conversion of the food substance you named in 2(b) to a form that can be eliminated from the body.
- 3. You have been provided with specimens D_1 , D_2 and D_3 .
 - (a) Identify specimens D_1 , D_2 and D_3 by their common names.
 - (b) State two adaptations shown by each of the specimens D_1 and D_2 to its habitat.
 - (c) Classify each of the specimens D_1 , D_2 and D_3 to Class level.
 - (d) Study specimens D_2 and D_3 carefully then state why these specimens are said to belong to the same Kingdom but in different Class? Give two points in each.

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