THE UNITED REPUBLIC OF TANZANIA NATIONAL EXAMINATIONS COUNCIL OF TANZANIA DIPLOMA IN SECONDARY EDUCATION EXAMINATION

733/2A

BIOLOGY 2A (ACTUAL PRACTICAL A)

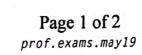
Time: 3 Hours

Monday, 13th May 2019 a.m.

Instructions

- 1. This paper of consists of three (3) questions.
- 2. Answer all questions.
- 3. Question number one (1) carries twenty (20) marks and the rest carry fifteen (15) marks each.
- 4. Cellular phones and any unauthorized materials are **not** allowed in the examination room.
- 5. Write your **Examination Number** on every page of your answer booklet(s).









- 1. You are provided with specimen C. Carry out dissection to display the urinogenital system. Leave your specimen properly displayed for assessment.
 - (a) Draw a large diagram of your dissection and label the structures related to a displayed system.
 - (b) Identify the sex of the specimen.
 - (c) From the specimen, name the organ that is
 - (i) similar to that of human being and has a function of excreting nitrogenous waste.
 - (ii) responsible for production of gametes.
 - (d) Classify specimen C to class level.
- 2. You have been provided with solution X_1 .
 - (a) Using the reagents provided, carry out an experiment to identify food substance(s) contained in Solution X_1 . Present your report in a tabular form as follows:

Food Tested	Procedure	Observation	Inference
		* a = -	
		6 ⁷⁷ 1	de de data per en

- (b) From the results obtained, answer the following questions:
 - (i) State the role of each food substance(s) identified from solution X_1 in human body.
 - (ii) What is the role of dilute HCl in this experiment?
 - (iii) State the site of digestion for each food substance(s) identified from solution X_1 .
 - (iv) Identify any two natural food stuff from which solution X_1 could have been extracted.
- 3. With the aid of a hand lens, observe specimen J, K, L and M provided and then answer the following questions:
 - (a) Write the common names of each of the specimen J, K, L and M.
 - (b) In which class(s) do specimen J and K belong? Give two reasons that guide you to place them in the mentioned class(s).
 - (c) Observe the mouth structure of a specimen K and
 - (i) suggest the type of food the organism feeds on.
 - (ii) state the mechanism by which the organism feeds on.
 - (d) Draw diagrams of specimen L and M and label the structures responsible for reproduction and nutrient absorption.

Page 2 of 2 prof.exams.may19