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

033/2C

BIOLOGY 2C (ACTUAL PRACTICAL C)

(For Both School and Private Candidates)

Time: 2:30 Hours

Tuesday, 15th November 2016 a.m.

Instructions

- 1. This paper consists of two (2) questions. Answer all questions.
- 2. Each question carries 25 marks.
- 3. Except for diagrams which must be drawn in pencil, all writings should be in blue or black ink.
- 4. Calculators and cellular phones are not allowed in the examination room.
- 5. Write your Examination Number on every page of your answer booklet(s).

- 1. (a) You are provided with specimen J.
 - (i) Prepare a solution from specimen J and label it as solution S1.
 - (ii) Outline procedures you used to prepare the solution S1.
 - (iii) Carry out experiments to identify the carbohydrates present in the solution. Record your experimental work as shown in Table 1.

Table 1

od Tested	Procedure	Observation	Inference

- (b) For each food substances identified in 1 (a) (iii), name:
 - (i) The sites of digestion.
 - (ii) glands present in each site of digestion named in (b) (i).
 - (iii) secretions produced by each of the glands named in (b) (ii).
 - (iv) enzyme contained in each of the secretions named in (b) (iii).
- (c) State three natural source of each food substance identified in solution S1
- 2. You are provided with specimens A, B, C, D and E.
 - (a) (i) State the common name for each specimen.
 - (ii) Classify each specimen B, C and E to the Class level.
 - (iii) State two observable features which have enabled you to place specimens B, C and E in their respective Classes.
 - (b) (i) State the habitat of specimen C.
 - (ii) Explain two adaptations shown by specimen C to its environment.
 - (c) Name the lowest classification rank under which specimen A and D can be grouped together.
 - (d) Using examples, explain two advantages of the Kingdom in which specimen E belongs.

Carkote