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

733/2A

BIOLOGY 2A

(ACTUAL PRACTICAL A)

Time: 3 Hour. Tuesday, 16 May 2017 a.m

Instructions

- 1. This paper has three papers.
- 2. Answer all questions.
- 3. Question 1 contains 30 marks while question 2 and 3 have 10 marks each.
- 4. Mobile phones are not allowed inside the examination room.
- 5. Write your Examination Number on every page of your answer booklet.



- 1. Dissect the specimen labelled J to display the digestive and reproductive systems.
- (a) Draw a well-labelled diagram showing six parts of the digestive system and two parts of the reproductive system.
- (b) Name three major parts forming the alimentary canal in specimen J.
- (c) State three functions of the reproductive organs observed in specimen J.
- 2. You are provided with specimen M1 and M2. Perform the following steps:
- (i) Cut M1 into two halves.
- (ii) Drop iodine solution on one half and observe after five minutes.
- (iii) On the other half, add Benedict's solution and observe after heating.
- (iv) For M2, rub it on paper, heat, and observe the result.

Questions:

- (a) Record the observations from all three tests.
- (b) Identify the food substances present in M1 and M2.
- (c) State the enzymes responsible for digesting the identified food substances and their end products.
- (d) Give three functions of the food substance from M2 to desert animals.
- 3. Observe specimens F, G, H, and I.
- (a) List four observable differences between specimens F and G.
- (b) Give three similarities between specimens H and I.
- (c) Draw specimen G and label five parts.