

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

**733/2B**

**BIOLOGY 2B  
(ACTUAL PRACTICAL B)**

**Time: 3 Hour.**

**Wednesday 14/05/2003 a.m**

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**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.

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1. Dissect the provided specimen W to display the reproductive system. Then answer:
  - (a) Draw the dissected specimen W and label five parts of the reproductive system.
  - (b) Identify the sex of the specimen W. Give four evidences for your answer.
  - (c) Explain why it is necessary to place the specimen on a dissecting board before cutting.
2. You are provided with specimen K. Use the following procedures to perform an experiment:
  - (i) Cut specimen K into two equal halves.
  - (ii) Grind one half and label as test tube X.
  - (iii) Leave the second half untouched and label as test tube Y.
  - (iv) Add 2% hydrogen peroxide to both tubes and observe changes.
  - (v) Use a glowing splint to test gas in both tubes.

**Questions:**

- (a) What was the aim of this experiment?
  - (b) Which test tube acted as a control and why?
  - (c) What were the observations after adding H<sub>2</sub>O<sub>2</sub>? Provide reasons.
  - (d) Identify the active substance in specimen K responsible for observed change.
  - (e) Write the chemical equation for the reaction observed.
  - (f) Name the evolved gas and explain your reasoning.
  - (g) Give two conclusions that can be drawn from this experiment.
3. Observe the provided specimens J, L, M, N and O. Then:
  - (a) List five observable features shared by specimens J and L.
  - (b) State four ways specimen N is important to humans.
  - (c) Examine the lower surface of specimen O.
    - (i) Identify any visible structures.
    - (ii) State their functions.
  - (d) Provide three features placing specimens J, L, and M in the same phylum.