

051106T4APB

APPLIED BIOLOGY

APB/OS/AB/CR/04/6

Apply Herbarium, Museum, Aquarium and Vivarium Techniques

JULY/AUGUST 2025



**TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION
COUNCIL (TVET CDACC)**

PRACTICAL ASSESSMENT

INSTRUCTIONS TO ASSESSOR

1. Assess the candidate as the practical progresses observing the critical areas
2. You are required to mark the practical as the candidate perform the tasks
3. You are required to take video clips at critical points
4. Ensure the candidate has a name tag and registration code at the back and front

OBSERVATION CHECKLIST

Candidate's Name & Reg. Number			
Assessors Name & Reg. Number			
Venue of Assessment			
Date of Assessment			
Items to be Evaluated: <i>Please award marks as appropriate. Give a brief comment on your observation.</i>	Marks Available	Marks Obtained	Comments
TASK 1: Collection and killing of the specimen			
1. Wore Appropriate PPEs: i. Closed flat shoes ii. Lab coat iii. Mask iv. Gloves (Award 1 mark or 0)	4		
2. Collection of the specimen i. Picked the mouse from the cage as per handling procedures ii. Allowed the mouse to grip the surface with its forepaws. iii. Used the index finger and the thumb to gently grasp the loose skin at the nape of the neck. iv. Placed the mouse gently into the killing jar. (Award 1 mark or 0)	4		
3. Killing of the specimen i. Collected a cotton wool ii. Soaked it in a 10% isoflurane iii. Placed it into the killing jar iv. Waited until the mouse is fully anesthetized v. Maintained for a few minutes to ensure overdose and death (Award 1 mark for each step or 0)	5		
Subtotal 1	13		

Task 2. Preservation, Mounting and Displaying

Preservation - Picked the carcass from the killing jar - Soaked it in a beaker containing 70% ethanol - Ensured the mouse is fully submerged - Sealed the container to prevent evaporation - Allowed the mouse to stay submerged in the alcohol for 10 minutes - Removed the mouse from the preservatives - Wrapped it in an absorbent paper for five minutes - Air-dried the mouse by placing it on a lab tray for five minutes. <i>Award 1 mark or 0 for each step</i>	8		
Mounting - Placed the specimen on the mounting foam block <i>Award 1 mark or 0</i> - Manipulated the mouse body into a natural pose using tweezers <i>Award 1 mark or 0</i> - Ensured the legs, tail and the head are in a lifelike appearance <i>Award 1 mark for proper appearance of the head, tail and legs, or 0 = 3 marks</i> - Inserted the mounting pins through the key body parts to hold it in place <i>Award 1 mark or 0</i>			

i. Labelled it indicating its common name, scientific name, date of collection, preservative type and concentration, collection location. Award 1 mark for each information or 0 (max score = 6 marks) ii. Covered the display with a transparent material iii. Checked the display for any necessary adjustments. iv. Placed the display in a dry cool corner of the lab	9		
Answered questions i), ii) and iii): i. Preserve the tissue; prevent decomposition. ii. Visibility; to prevent dirt iii. Education purpose; identification of various parts; exposing various organs of the specimen Award 1 mark or 0 for each correct point	5		
Subtotal 2	28		
Task4. Housekeeping			
Cleaned the work bench i. Cleared the work bench ii. Disposed the wastes appropriately iii. Dusted the work bench Award 1 mark for each step or 0	3		
Subtotal 3	3		
Grand Total	44		
ASSESSMENT OUTCOME			
The candidate was found to be: Competent <input style="width: 50px; height: 20px; border: 1px solid black;" type="checkbox"/> Not yet Competent <input style="width: 50px; height: 20px; border: 1px solid black;" type="checkbox"/> (Please tick as appropriate)			

(The candidate is competent if the candidate obtains at least 50%)

Feedback from the candidate:

Feedback to the candidate:

Candidate Signature

Date: