

051106T4APB

APPLIED BIOLOGY LEVEL 6

APB/OS/AB/CR/04/6/A

Apply Herbarium, Museum, Aquarium and Vivarium Techniques

March/April 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 & Registration Code			
Assessors Name & Registration Code			
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: Pressed specimen A			
1. Wore Personal Protective Equipment • Laboratory coat • Closed shoes • Gloves • Mask <i>(Award 1 Mark each or zero)</i>	4		
2. Selected a plant. • Identified a complete plant: root, stem, leaves, flowers • Selected a healthy plant • Transferred the plant to the work station <i>(Award 2 Marks each or zero)</i>	6		
3. Recorded details of the plant. • Name of the plant • Date of collection • Habitat • Flower color • Type of fruit • Type of roots <i>(Award 1 Mark each or zero)</i>	6		

4. Prepared the pressing boards - Assembled the two board pieces – top and the bottom board - Assembled the herbarium straps <i>(Award 1 Mark each or zero)</i>	2		
5. Prepared the plant specimen for pressing - Selected at least three full plants - Removed any excess soil or debris. <i>(Award 2 Marks each or zero)</i>	4		
6. Pressed the plant specimen - Laid the board on a flat surface - Placed a layer of old newspaper on the board. Five sheets of newspapers will be enough - Laid the specimen on the newspa - Distributed the plants on the news evenly - Laid another layer of newspaper on top of the specimen - Laid the top board on top of the newspaper and pressed - Fastened the two boards with straps <i>(Award 2 Marks each or zero)</i>	14		
Sub-Total 1	36		
TASK 2: Mount specimen M			
7. Assembled the required material - Specimen M - Herbarium sheet	4		

• Adhesive or office glue • Applicator stick <i>(Award 1 Mark each or zero)</i>			
8. Mounted the specimen • Laid the herbarium sheet on a flat surface • Positioned the specimen M on the central part of the sheet. • Arranged the specimen such that some leaves were facing up and others down. • Ensured that the specimen parts did not protrude outside the mounting sheet. <i>(Award 2 Marks each or zero)</i>	8		
9. Glued the plant to the sheet of paper • Used an applicator stick to apply even layer of the adhesive to the p plant in contact with the paper. • Pressed the plant against the sheet • Wiped any excess glue <i>(Award 2 Mark each or zero)</i>	6		
10. Labelled the mounted specimen Wrote the following details of the plant on bottom side of the mounting sheet: • Name of the plant (scientific of local name or used letters to identify the plant) • Date of collection • Flower color • Leaf arrangement • Name of collector <i>(Award 1 Mark each or zero)</i>	5		
Sub-Total 2	23		

TASK 3: Store specimen M			
11. Filed the specimen • Let the glue on the herbarium sheet to dry • Removed any loose pieces from the mounted specimen • Filed the specimen in a herbarium in a file <i>(Award 1 Mark each or zero)</i>	3		
12. House keeping • Disposed the waste plants in the correct disposal bin • Cleaned the work surface • Disposed off gloves in the appropriate waste bin <i>(Award 1 Mark each or ze</i>	3		
Sub-Total 3	6		
GRAND	65		
ASSESSMENT OUTCOME			
The candidate was found to be: Competent <input style="width: 50px; height: 30px; border: 1px solid black;" type="checkbox"/> Not yet Competent <input style="width: 50px; height: 30px; border: 1px solid black;" type="checkbox"/> <i>(Please tick as appropriate)</i> <i>(The candidate is competent if the candidate obtains at least 50%)</i>			
Feedback from the Candidate:			

Feedback to the Candidate:	
Candidate Signature _____	Date: _____
Assessor's Signature _____	Date _____