

051106T4APB

APPLIED BIOLOGY LEVEL 6

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

Apply Herbarium, Museum, Aquarium and Vivarium Techniques

Nov/Dec 2024



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

PRACTICE

OBSERVATION CHECKLIST

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Candidate's Name			
Candidate 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: PREPARATION			
Wore Appropriate PPEs: i. Closed flat shoes ii. Lab coat iii. Mask iv. Gloves (Award 1 mark or 0)			
Sub total	4		
TASK 2: SETTING UP THE AQUARIUM			
Aquarium Setup i. Organized the tools and equipment as per the task a. Cleaned the plastic aquarium using running water, preferably from the tap. (Award 1 mark or 0) b. rinsed the jar thoroughly using running water. (Award 1 mark or 0) Award 1 mark for proper rinsing or zero	1 1		
II: Substrate Preparation:	1		

i. Washed the gravel substrate thoroughly to remove any dust or debris. (Award 1 mark or 0) ii. Placed enough amount of gravel at the base of the plastic aquarium (Award 1 mark or 0) iii. Evenly spread the gravel at the bottom of the small glass/Plastic aquarium. (Award 1 mark or 0)	1		
III: Adding Water i. Poured water into the aquarium. Poured water from the side of the aquarium (Award 2 marks or 0) ii. Ensured water reached quart way (Award 1 mark or 0)	2		
IV Aerating the Water Pumped air using a pipette into the to the aquarium (observe bubbles) a. Blew air using a pipette/straw/pipe into the water (Award 1 mark or 0)	1		
V: Introducing Aquatic Plants i. Planted the aquatic plants into the gravel substrate one by one at a reasonable distance (Award 2 mark or 0) ii. Anchored each plant securely by firming around the stem/root (Award 2 mark or 0) iii. Topped up the water levels slowly to $\frac{3}{4}$ of the tank to fully cover the plant.	2 2 2		

i. Used a sieve to remove debris from water (<i>Award 2 mark or 0</i>)	2		
ii. Used the thermometer to check the water temperature (<i>Award 2 mark or 0</i>)	2		
iii. Adjusted the temperature accordingly based on the fish species:			
a. Lower temperatures for cold water fish (18 – 21 degrees Celsius) (<i>Award 3 mark or 0</i>)	3		
b. Warmer temperatures for warm water fish (21- 25 degrees Celsius) (<i>Award 3 mark or 0</i>)	3		
iv. Placed the aquarium in an undisturbed area (<i>Award 3 mark or 0</i>)			
Cleaned the work bench			
i. Cleared the work bench			
ii. Appropriately disposed the wastes			
<i>Award 1 mark for each step or zero</i>	1		
Subtotal	19		
Grand total	47		
ASSESSMENT OUTCOME			
The candidate was found to be: Competent ☐ Not yet Competent ☐ (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: _____
Assessor's Signature _____	Date _____

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