

051106T4APB

APPLIED BIOLOGY LEVEL 6

APB/OS/AB/CR/07/6/A

Carry Out Plant Husbandry

Nov/Dec 2024



**TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION
COUNCIL C)**

PRACTIC NT

OBSERVATION CHECKLIST

INSTRUCTIONS TO THE ASSESSOR

1. You are required to mark the practical as the candidate performs the tasks.
2. You are required to take video clips at critical points.
3. Ensure the candidate has an identification tag pinned at the back and front near the shoulders showing Candidate's name and registration code.

This paper consists of FIVE (5) printed pages.

OBSERVATION CHECKLIST

Candidate's name			
Candidate Registration No.			
Assessor's name & Reg. code			
Unit(s) of Competency			
Venue of Assessment			
Date of assessment			
<i>(Indicate the marks available and marks obtained respectively. Award marks appropriately as guided for in the items for evaluation indicated. Give a brief comment where necessary)</i>			
Items to be evaluated:	Marks allocated	Marks obtained	Comments
Preliminaries			
Wore appropriate PPEs: i. Masks ii. Hand gloves, iii. Laboratory coat, iv. Closed shoes (Award 1 mark for each item, 1 x 4)	4		
Sub total	4		
Task: Determine the Effect of Growth Hormones on Stem Cutting Rooting			
Assembled necessary tools and equipment (Award 1 mark or zero)	1		
1. Selected Stem Cuttings and Pots ✓ Selected three pots/sleeves of equal size ✓ Sterilized the pots to prevent contamination ✓ Selected a healthy, disease-free parent plant ✓ Removed the lower leaves, leaving only a few at the top. ✓ Measured uniform length and size, about 10 cm long ✓ Ensured cutting has at least three nodes ✓ Cut using a sharp knife at marked point.	1 1 1 1 1		

- The cut must be slanting ✓ Had three equal-sized cuttings ✓ Sterilized the cuttings (Award 1 mark for each step or zero) Max marks = 9	1 1 1 1		
2. Preparation of Planting Pots/Sleeves ✓ Ensured the pots/sleeves have drainage holes at the bottom or lower sides to prevent water accumulation ✓ Filled the planting pots/sleeves with planting media/soil ✓ Applied a little water to the media to moisten it but not waterlogging it ✓ Set the pots/sleeves aside (Award 1 mark for each step)	1 1 1 1		
3. Application of Growth Substance/H ✓ Dipped the base of the cutting into t hormone A (Award 1 mark or 0) ✓ Repeated the process with second third cutting into growth substance B and C (Award 1 mark for each step or 0) = 2 max marks ✓ Tapped off excess liquid or allowed the excess to drip off from each cutting (Award 1 mark for each cutting or 0 – max marks = 3)	1 2 3		
4. Planting the Cuttings ✓ Used a pencil, stick or finger to create a hole in the potting mix (award 3 marks or 0) ✓ Ensured that the hole is deep enough to insert the cutting about halfway (award 3 marks or 0) ✓ Inserted the cutting into the hole gently and carefully, ensuring that the rooting media does not rub off during the process (award 3 marks or 0) ✓ Firmed the soil around the cutting to hold it in	3 3 3		

place (award 3 marks or 0)	3		
✓ Watered the cutting gently with a watering can or spray bottle to settle the soil around the stem. (award 3 marks or 0)	3		
✓ Ensured that the soil is moist but not soggy (award 3 marks or 0)	3		
5. Post Planting Management			
✓ Covered the pots or sleeves with a transparent plastic bag or placed them under a humid shade. (Award 3 mark or 0)	3		
✓ Ensured that the plastic bag has holes for air circulation (Award 3 mark or 0)	3		
Refer to Appendix 1			
✓ Ensured the plastic doesn't touch the leaves by using small sticks or straws to keep the plastic off the foliage. (Award 3 mark or 0)	3		
Refer to Appendix 1			
✓ Placed the pots in a warm location with light. Avoided direct sunlight, as it excessive heat and moisture loss. (mark or 0)	3		
(Award 1 mark or 0 for each step done to all three pots; max marks = 12)			
6. Final Part			
✓ Cleaned the apparatus used			
✓ Cleaned the working benches			
✓ Disposed of the waste properly			
✓ Returned all the apparatus to the technician in charge			
(Award 1 mark for each step or 0)			
Sub-total	54		
TOTAL	58		
ASSESSMENT OUTCOMES			
The candidate was found to be:			
☐ Competent ☐ Not yet competent			

(Please tick as appropriate)		
(The candidate is competent if s/he gets 50% or higher)		
Feedback from candidate:		
Feedback to candidate:		
Candidate's signature:	Date:	
Assessor's signature:	Date:	

Appendix 1:



This is the Last Printed Page