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051106T4APB

APPLIED BIOLOGY LEVEL 6

APB/OS/AB/CR/01/6/A

Carry Out Cytological and Histological Techniques

Nov/ Dec 2024

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

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PRACTICAL ASSESSMENT

OBSERVATION CHECKLIST

INSTRUCTIONS TO THE ASSESSOR

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

This paper consists of 5 printed pages

Assessor should check to ascertain that all pages are printed as indicated and that no pages are missing.

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OBSERVATION CHECKLIST

Candidate's name	
Candidate Registration No.	
Assessor's name & Reg. code	
Unit(s) of Competency	
Venue of Assessment	
Date of assessment	

(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)

Items to be evaluated:	Marks allocated	Marks obtained	Comments
Task one: Preparing for demonstration			
1. General appearance & grooming of the candidate i. Appropriate wearing of mask. **(Award 1 mark or 0)** ii. Closed flat shoes. **(Award 1 mark or 0)** iii. Wore lab coat properly buttoned. **(Award 1 mark or 0)** iv. Wore disposable hand gloves. **(Award 1 mark or 0)**	1 1 1 1		
2. Preparation of the working bench i. Clean the working bench. **(Award 1 mark or 0)** ii. Organized the tools and the reagents for the experiment. **(Award 1 mark or 0)**	1 1		
	6		
Task 2: Sectioning of the tissue			
3. **Step 1: Trimming of the tissue block** - Cleaned the microtome blade. **(Award 2 marks or 0)**	2		

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- Trimmed the embedded tissue block so as to remove excess embedding medium. **(Award 2 marks or 0)** - Fitted the block into the tissue block cassette **(Award 2 marks or 0)** - Exposed the tissue at the desirable level for sectioning. **(Award 2 marks or 0)**	2 2 2		
4. **Step 2: Sectioning of the tissue block** - Set up the microtome into place. **(Award 2 marks or 0)** - Placed the embedding cassette with tissue block in the microtome. **(Award 2 marks or 0)** - Adjusted the setting to securely hold the embedding cassette and tissue block securely in the microtome. **(Award 2 marks or 0)** - Set the microtome to the desired section thickness (typically 5-20 micrometers). **(Award 2 marks or 0)** - Rotated the microtome's cutting blade to slice through the tissue. **(Award 2 marks or 0)** - Collected thin slices of tissues on a glass slide. **(Award 2 marks or 0)**	2 2 2 2 2 2		
	20		
Task 3: Section Mounting, Staining and Visualization			
5. **Step 1: Mounting of the sliced tissue on the slide.** - Floated the sliced tissues in warm water of the water bath for 30 seconds. **(Award 2 marks or 0)** - Using the slide picker or brush placed sections of the tissue onto slide. **(Award 2 marks or 0)** - Placed a drop of the mounting medium on the section. **(Award 2 marks or 0)** - Placed Cover Slip on the mounting medium. **(Award 2 marks or 0)**	2 2 2 2 2		

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- Carefully positioned the coverslip. **(Award 2 marks or 0)** - Gently pressed the cover slip onto the slide. **(Award 2 marks or 0)**	2		
6. **Step 2: Staining of the tissue.** - Placed the slide containing the tissue in Hematoxylin & eosin dye. **(Award 2 marks or 0)** - Allowed the experiment to stand for 10 minutes. **(Award 2 marks or 0)** - Washed off the dye with running water. **(Award 2 marks or 0)**	2 2 2		
7. **Step 2: Microscopic examination/Visualization** - Placed the slide in between the folding of the filter paper to blot the slide to dry. **(Award 2 marks or 0)** - Set into place the microscope. **(Award 2 marks or 0)** - Placed the stained slide on the stage of a microscope. **(Award 2 marks or 0)** - Switched the microscope on to illuminate the slide. **(Award 2 marks or 0)** - Observed the slide under the microscope using the lower power and then high-power objective lenses respectively. **(Award 2 marks or 0)**	2 2 2 2 2		
Sub total	**28**		
TOTAL	**54**		

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ASSESMENT 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:	

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