

051106T4APB

APPLIED BIOLOGY LEVEL 6

APB/OS/AB/CR/10/6/A

Perform Immunological Techniques

Nov/ Dec 2024



**TVET CURRICULUM DEVELOPMENT
(T**

T AND CERTIFICATION COUNCIL

PRACTICAL ASSESSMENT

OBSERVATION CHECKLIST

Candidate's Name			
Candidates Registration No.			
Assessor's Name			
Assessor's Reg. code			
Unit(s) of Competency			
Venue of Assessment			
Date of assessment			
<i>(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
OBSERVATION CHECKLIST			
Wore Personal Protective Equipment			
(i) Dustcoat/Overall <i>(Award 1 or 0)</i>	1		
(ii) Closed shoes <i>(Award 1 or 0)</i>	1		
Organised properly the working area and maintain cleanliness. <i>(Award 2 or 0)</i>	2		
Sub total	4		
TASK 1 : Sample Preparation			
i. Labelled the test tubes sequentially. <i>(Award 3 or 0)</i>	3 10		
ii. Pipetted 900 µL of dilution buffer into each of the 10 labeled tubes. <i>(Award 1 or 0 for every tube)</i>			
Sub-Total	13		
TASK 2: Carry out ELISA Test			
i. Labelled ELISA plates corresponding to dilution series and pipetted 100 microliters from each tube to the corresponding plate. <i>(Award 10 or 0)</i>	10		
ii. Incubated at 37 degrees centigrade for 1 hour and washed with the buffer. <i>(Award 5 or 0)</i>	5		

iii.	Added 100 microliters of enzyme-linked secondary antibody to each well, incubated for 15 minutes and washed. (Award 5 or 0)	5		
iv.	Added 100 microliters of substrate solution to each well and left it for 15 minutes. (Award 5 or 0)	5		
v.	Added 15 microliters of sulphuric acid to each well. (Award 5 or 0)	5		
vi.	Placed ELISA plates in plate readers and measured the optical densities at wavelength of 450nm. (Award 5 or 0)	5		
vii.	Took the OD readings and used it to plot a graph of OD against dilution factor. (Award 5 or 0)	5		
Sub- total		40		
Grand total		57		

ASSE		OMES	
The candidate was found to be: (Please tick (✓) as appropriate)			
Competent	☐	Not yet competent	☐
<i>(The candidate is competent if she/he scores 50% or higher)</i>			
Feedback from candidate:			
Feedback to candidate:			
Candidate's signature:	Date:		
Assessor's signature:	Date:		

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