

051106T4APB

APPLIED BIOLOGY LEVEL 6

APB/OS/AB/CR/01/6

Carry Out Cytological and Histological Techniques

July/August 2025



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

PRACTICE ASSESSMENT

Time: 3 HOURS

INSTRUCTIONS TO CANDIDATE:

1. You are required to perform the following tasks

i. Prepare Solutions for Histology (show your working)

a. Ethanol dilution

i. 100% Ethanol - 100 mL

ii. 95% Ethanol - 100 mL

iii. 70% Ethanol – 200 mL

b. 50 mL Acid alcohol

Ratio: 1% HCL in 70% Ethanol

ii. Stain Sectioned Histological Tissues with Hematoxylin and Eosin (H&E)

2. You have been provided with the following resources for the practical tasks:

- i. 1 Staining dish or Coplin jar
- ii. 1 Forceps or slide holders
- iii. 1 Distilled water wash bottle
- iv. 1 Timer/Stop watch
- v. 3 Slide blotting paper
- vi. Access to Mounting medium (DPX)
- vii. Access to Slide warmer
- viii. 1 Fixed epithelial tissue section mounted on a slide
- ix. 150 mL Xylene
- x. 500ml Ethanol (Absolute)
- xi. 100 mL 1% HCL
- xii. 50 mL Bluing solution (Ammonia water)
- xiii. 500mL Distilled water
- xiv. 50 mL Eosin Y stain
- xv. 50 mL Hematoxylin stain
- xvi. 1 Coverslip
- xvii. 1 Mask
- xviii. 100 mL beaker (5)
- xix. 50 mL beakers (5)
- xx. 6 Labels
- xxi. A pair Gloves

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