

GENERAL PATHOLOGY

UNIT CODE: 0811 441 11A

TVET CDACC UNIT CODE: HE/CU/AHP/CC/16/5/MA

Relationship to Occupational Standards

This unit addresses the unit of competency: Apply knowledge of basic general pathology.

Unit Duration: 40 hours

Unit Description

This unit specifies the competencies required by an animal health and production technician to apply knowledge of basic general pathology. It involves applying principles of pathology, knowledge of cell injury, tissue inflammation, tissue healing and repair, hemodynamic disorder, cellular adaptation and neoplasia.

Summary of Learning Outcomes

By the end of this unit, the learner should be able to:

S/No	Learning Outcomes	Duration (Hours)
1.	Apply principles of pathology	10
2.	Apply knowledge of cell injury	5
3.	Apply knowledge of tissue inflammation	5
4.	Apply knowledge of tissue healing and repair	5
5.	Apply knowledge of hemodynamic disorders	5
6.	Apply knowledge of cellular adaptations	5
7.	Apply knowledge of neoplasia	5
Total		40

Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcome	Content	Methods of assessment
1. Apply principles of pathology	1.1 Introduction to general pathology. 1.2 Branches of pathology 1.2.1 Anatomical 1.2.2 Clinical 1.2.3 Forensic 1.2.4 Histopathology 1.2.5 Surgical 1.2.6 Dermatopathology 1.3 Pathology terms 1.3.1 Etiology 1.3.2 Biopsy 1.3.3 Edema	<ul style="list-style-type: none"> ● Practical ● Project ● Written tests ● Third party report ● Portfolio of evidence ● Oral questions
2. Apply knowledge of cell injury	2.1 Introduction to cell Injury 2.2 Causes of cell injury 2.3 Management of cell injury	<ul style="list-style-type: none"> ● Practical ● Project ● Written tests ● Third party report ● Portfolio of evidence ● Oral questions
3. Apply knowledge of tissue inflammation	3.1 Tissue Inflammation 3.2 Define inflammation 3.3 Cardinal signs of inflammation 3.4 Types of inflammation 3.5 Management of inflammation	<ul style="list-style-type: none"> ● Practical ● Project ● Written tests ● Third party report ● Portfolio of evidence ● Oral questions
4. Apply knowledge of tissue healing and repair	4.1 Define tissue healing and repair. 4.2 Classification of wound. 4.3 Wound healing by first intention.	<ul style="list-style-type: none"> ● Practical ● Project ● Written tests ● Third party report ● Portfolio of evidence

	<p>4.4 Wound healing by second intention</p> <p>4.5 Factors affecting wound healing</p>	<ul style="list-style-type: none"> ● Oral questions
<p>1. Apply knowledge of hemodynamic disorders</p>	<p>5.1 Define terminologies</p> <p>5.1.1 Hyperemia</p> <p>5.1.2 Congestion</p> <p>5.1.3 Hemorrhage</p> <p>5.1.4 Thrombosis</p> <p>5.1.5 Embolism</p> <p>5.1.6 Oedema</p> <p>5.1.7 Infarction</p> <p>5.1.8 Shock</p> <p>5.2 Management of hemodynamic disorders</p>	<ul style="list-style-type: none"> ● Practical ● Project ● Written tests ● Third party report ● Portfolio of evidence ● Oral questions
<p>2. Apply knowledge of cellular adaptations</p>	<p>6.1 Define cellular adaptation</p> <p>6.2 Types of cellular adaptation</p> <p>6.2.1 Hyperplasia</p> <p>6.2.2 Hypertrophy</p> <p>6.2.3 Atrophy</p> <p>6.2.4 Metaplasia</p> <p>6.3 Causes of cellular adaptation</p> <p>6.4 Differentiation disturbance of cellular adaptation.</p>	<ul style="list-style-type: none"> ● Practical ● Project ● Written tests ● Third party report ● Portfolio of evidence ● Oral questions
<p>3. Apply knowledge of neoplasia</p>	<p>7.1 Define Neoplasia</p> <p>7.2 Types of neoplasia</p> <p>7.2.1 Carcinoma</p> <p>7.2.2 Sarcoma</p> <p>7.2.3 Adenoma</p> <p>7.2.4 Lymphoma</p> <p>7.3 Causes of neoplasia</p> <p>7.4 Management of neoplasia</p>	<ul style="list-style-type: none"> ● Practical ● Project ● Written tests ● Third party report ● Portfolio of evidence ● Oral questions

Suggested Methods of Delivery

- Projects
- Demonstrations
- Group discussion
- Direct instructions
- Practical

Recommended Resources for 25 trainees

S/NO	Category/Item	Description/specification	Qty	Recommended ratio (item: trainee)
1.	Projector	EPSOM	1	1:25
2.	Whiteboard/smartboard	2.5 By 1.5.M	1	1:25
3.	Desktop/computer		1	1:25
4.	Classroom	Well-lit with 25 seats	1	1:25
5.	Pathology laboratory	As by KVB guidelines	1	1:25
6.	Library	Equipped with pathology books and E- section	1	1:25
7.	Animal farm	As per KVB guidelines	-	-