

**BINDURA UNIVERSITY OF SCIENCE EDUCATION**  
**FACULTY OF AGRICULTURE AND ENVIRONMENTAL SCIENCE**

**AGA124**

**Department of Agricultural Science**  
**Bachelor of Science (Honours) in Animal Health and Production Extension**  
**Part I Examination**  
**Pathology (a)**

**3 HOURS (100 Marks)**

**INSTRUCTIONS**

JUN 2023

Answer any **FOUR** questions. Each question carries **25 marks**.

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1. a) Pathology covers five aspects of a disease process. Explain in detail these aspects. **[10 marks]**  
  
b) Necrosis is a pathological process, write short notes on necrosis. **[10 marks]**  
  
c) List five (5) causes of tissue injury. **[5marks]**
2. a) Define the following terms **[2 marks]**
  - i) Inflammation **[2 marks]**
  - ii) Autopsy **[2 marks]**
  - iii) Neoplasia **[2 marks]**
  - iv) Hypoxia **[2 marks]**
  - v) Apoptosis **[2 marks]**  
b) Explain in detail changes that occur after an animal dies. **[15 marks]**
3. a) Explain sources of tissue injury in animals. **[8 marks]**  
b) Define tissue healing. **[2 marks]**  
c) Write short notes on factors that affect healing. **[15 marks]**
4. a) Write short notes on causes of oedema. **[5 marks]**  
b) Describe the gross morphological features of oedema. **[15 marks]**  
c) Write short notes on clinical derangements that result in generalized oedema. **[5 marks]**
5. a) Write short notes on haemorrhages and its causes **[10 marks]**

b) Define the following terms:

- i) Epistaxis [1 mark]
- ii) Meleana [1 mark]
- iii) Haematuria [1 mark]
- iv) Hematemesis [1 mark]
- v) Hemothorax [1 mark]

c) Describe the gross morphology of haemorrhage. [5 marks]

d) Write short notes on clinical significance of haemorrhage. [5 marks]

6. Write short notes on the following:

- a) Jaundice [5 marks]
- b) Ascites [5 marks]
- c) Inflammation [5 marks]
- d) Pigmentation [5 marks]
- e) Congestive heart failure [5 marks]

**END OF PAPER**