

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

AGA 230

**Bachelor of Agricultural Science Honours Degree in Animal Science and Technology
(BAGSAScT) Part IV
Applied Animal Physiology**

3 HOURS (100 Marks)

INSTRUCTIONS

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

= 06/2024

1. Outline hormones produced by any five endocrine glands and their functions.
[25 marks]
2. (a) Explain the mechanisms used by animals in regulation of inhalation and exhalation.
[10 marks]
(b) Examine on the physical and environmental factors that affect and regulate heartbeat.
[15 marks]
3. Discuss with examples on the regulation and metabolism of nutrients ingested by animals.
[25 marks]
4. Outline with examples body systems that require negative and positive feedback mechanisms
[25 marks]
5. Discuss the digestion of carbohydrates, proteins, lipids, minerals and vitamins in the gastro-intestinal tract of an animal.
[25 marks]
6. Discuss with examples the mechanism, site and types of products which are excreted by the body of an animals.
[25 marks]

End of Exam Paper