

**BINDURA UNIVERSITY OF SCIENCE EDUCATION
SCIENCE & MATHEMATICS EDUCATION DEPARTMENT**

**HBScEd
ANIMAL PHYSIOLOGY (BZH205)**

**EXAMINATION
2 HOURS (100 MARKS)**

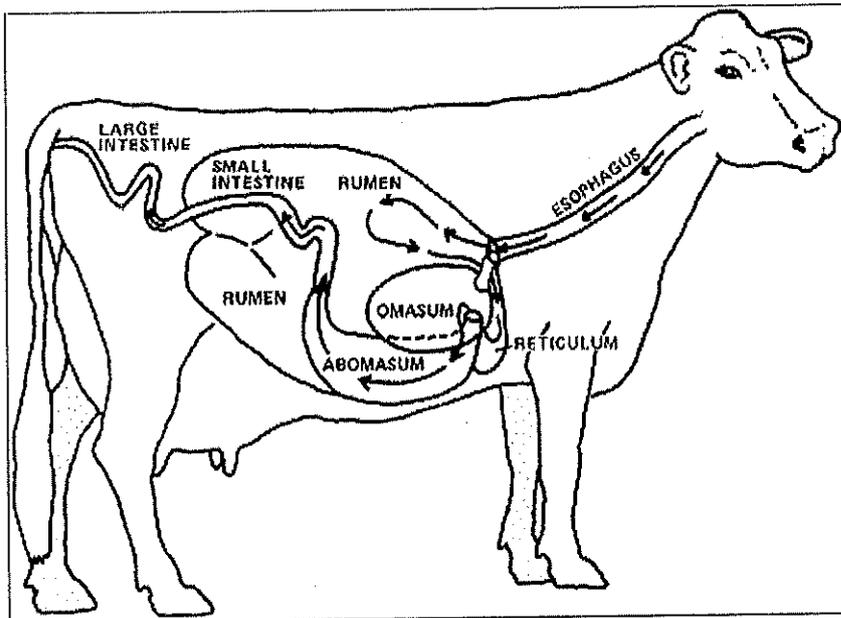
5 AUG 2024

INSTRUCTIONS TO CANDIDATES

Answer **FOUR** questions. You **MUST** answer **QUESTION 1** (Section A) and any **THREE** questions from **Section B**. Each question carries **25 MARKS**. Where a question contains sub-divisions, the mark value of each sub-division is given in brackets. Illustrate your answer where appropriate with large clearly labelled diagrams. You should not spend more than thirty minutes on each question.

SECTION A (COMPULSORY)

1.(a)The diagram below shows parts of the ruminant digestive system. Describe the roles of each of the labelled part. (20marks)



(b)Describe chemical digestion. (5marks)

SECTION B

2. Describe the vertebrate circulatory system.

3. Write short notes on any **FIVE** of the following:

- (a) Nerve net. (5 marks)
- (b) anterior pituitary (5 marks)
- (c) systemic circulation. (5 marks)

- (d) Type 1 Diabetes mellitus. (5 marks)
- (e) Smooth muscle. (5 marks)
- (f) Urinary system. (5 marks)
4. Describe the vertebrate respiration.
5. Give a detailed account of the regulatory functions of a kidney.
6. Write an essay on the propagation of an action potential along an axon.

END OF EXAMINATION QUESTION PAPER