

BINDURA UNIVERSITY OF SCIENCE EDUCATION
FACULTY OF AGRICULTURE AND ENVIRONMENTAL SCIENCE

AGA 410/111

DEPARTMENT: ANIMAL SCIENCE
BSc Agricultural Science Animal Science and Technology Part IV Examination
BSc Animal Health and Production Extension Part I Examination

ANIMAL WELFARE AND ETHOLOGY

DURATION: 3 HOURS

TOTAL MARKS: 100

INSTRUCTIONS: Answer any **FOUR** questions. Each question carries **25 Marks**

1. Discuss the key consideration in animal welfare evaluation [25 Marks]

2. Briefly discuss following terms:
 - a) Sentience [5 Marks]
 - b) Euthanasia [5 Marks]
 - c) Animal Welfare [5 Marks]
 - d) Humane slaughter [5 Marks]
 - e) Telos [5 Marks]

3. Animal welfare is key to sustainable animal production:
 - a) List the 'five (5) freedoms'. [5 Marks]
 - b) Identify any five (5) needs to ensure the welfare of animals. [5 Marks]
 - c) Give any ten (10) indicators of poor animal welfare. [10 Marks]
 - d) Identify five (5) domains of animal welfare. [5 Marks]

4. Highlight five (5) common welfare issues that are frequently encountered in the production of the listed livestock species in Zimbabwe.
 - i. Beef cattle [5 Marks]
 - ii. Donkeys [5 Marks]
 - iii. Intensive Broiler production [5 Marks]
 - iv. Dairy cattle [5 Marks]

a) Identify five (5) physiological measures of animal welfare. [5 Marks]

5. Describe the (twelve) 12 criteria for the assessment of animal welfare according to the Welfare Quality Project (WQP). [25 Marks]

6. Describe the principles and practices of humane slaughter. [25 marks]

END OF PAPER