

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

AGA 430

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

3 HOURS (100 Marks)

INSTRUCTIONS

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

1. Discuss on the dry, wet and chemical methods used in processing feeds for livestock. **[25 marks]**

2. (a) Outline sources and functions of water to livestock. **[10 marks]**
(b) Examine on the functions of nutrients given to animals. **[15 marks]**

3. Formulate a complete feed of one month for 10 beef cattle of average 250kg live weight each requiring 14 % CP while using maize 8% CP and Soya meal 44% CP. **[25 marks]**

4. Examine with examples the factors to consider when formulating and producing feeds for different livestock species. **[25 marks]**

5. (a) Explain on the effects of tannins, gossypol, phytates, saponins and aflatoxins in animal nutrition **[15 marks]**
(b) Examine on how the ant nutrients effects can be eliminated in animal feeds. **[10 marks]**

6. Discuss on the significance of feed analysis and explain how the produced feeds can be chemically analyzed. **[25 marks]**

End of Exam Paper