

**BINDURA UNIVERSITY OF SCIENCE EDUCATION**  
**FACULTY OF AGRICULTURE AND ENVIRONMENTAL SCIENCE**  
**Bachelor of Agricultural Science Honours Degree in Animal Science and Technology**  
**(BAGSAScT) Part II**

**AGA 240 Animal Nutrition**

**3 HOURS (100 Marks)**

**INSTRUCTIONS**

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

*NOV 2024*

1. Write short notes on the importance of the following nutrients in livestock;

a. carbohydrates	[5]
b. proteins	[5]
c. vitamins	[15]
2. State the nutrient requirements ration for dairy cattle. [25]
3. Explain the likelihood of vitamin B deficiency in beef cattle raised under Zimbabwean climatic conditions. [25]
4. Using diagrams, explain the following;

a) digestion in poultry and pigs	[10]
b) digestion in ruminants	[15]
5. Using examples, outline the antinutritional factors in animal feeds. [25]
6. With the aid of specific examples, describe the importance of two minerals and two vitamins of your choice in the nutrition of a named livestock species [25]

**End of Exam Paper**

