BINDURA UNIVERSITY OF SCIENCE EDUCATION BACHELOR OF ENVIRONMENTAL SCIENCE DEGREE

AGA220

Department of Animal Science BSc Animal Science and Technology Part II Examination Rangeland Ecology and Management

3 HOURS (100 Marks) INSTRUCTIONS TO CANDIDATES

Answer any FOUR questions. Each question carries 25 Marks



1.	Discuss the following terms as they relate to livestock grazing: i. Stocking rate. ii. Rotational Grazing. iii Top Hamper iv Period of rest. v Sweet veld vi Use of fire	[4 Marks] [4 Marks] [4 Marks] [4 Marks] [4 Marks] [5 Marks]
2.	Discuss the responses of grass plants to defoliation.	[25 Marks]
3.	Discuss the changes in nutritive value of rangelands over a year in Zimbabwe.	[25 Marks]
4.	Outline the main features of the following: a. Hay b. Silage c. Crop residues	[7 Marks] [9 Marks] [9 Marks]
5.	Discuss the Carbon Cycle and show how rangelands can contribute to reduced climate change.	
6.	Discuss the challenges that face rangeland managers in communal areas of Zimbaby [2]	[25 Marks] ve. 25 Marks]

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