



NATIONAL OPEN UNIVESITY OF NIGERIA
Faculty of Agricultural Sciences
Department of Animal Science and Fisheries
2025_2 EXAMINATIONS

Course: ANP512: Pasture and Range Management
Credit Unit: 2
Time Allowed: 2 hours.

INSTRUCTIONS: Answer question One (Compulsory: 30 Marks) and any other TWO (20 marks each)

QUESTION 1 (30 Marks)

- 1a. Discuss the impact of overgrazing on pasture quality. (10 marks)
 - 1b. Explain the methods used to prevent overgrazing. (10 marks)
 - 1c. Provide examples of overgrazing effects observed in Nigerian rangelands. (10 marks)
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QUESTION 2 (20 Marks)

- 2a. Discuss why forage yield is essential for planning and sustaining grazing, as well as its role in reducing costs and maintaining animal health. (8 marks)
 - 2b. Discuss the methods used to determine forage yield.(8 marks)
 - 2c. Provide an example of how forage yield data is used to improve pasture management. (4 marks)
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QUESTION 3 (20 Marks)

- 3a. Describe the role of legumes in soil fertility management. (8 marks)
 - 3b. Discuss the symbiotic relationship between legumes and Rhizobium bacteria, detailing how atmospheric nitrogen is converted into usable forms for plant growth. (8 marks)
 - 3c. Provide examples of legume species used for nitrogen fixation in Nigerian pastures. (4 marks)
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QUESTION 4 (20 Marks)

- 4a. Discuss the importance of soil testing before pasture establishment. (8 marks)
- 4b Explain how soil testing informs decisions about soil amendments, seed germination, and nutrient management for pasture establishment.(8 marks)
- 4c. Provide an example of how soil test results influence pasture management decisions. (4 marks)