



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
**Faculty of Agricultural Sciences**  
**Department of Animal Science and Fisheries**  
**2020\_2 Examination ....**

Course: ANP304: Forage and Fodder Crop Production  
Credit Unit: 2  
Time Allowed: 2 hours.

**INSTRUCTIONS: Answer question One (Compulsory: 25 Marks) and any other THREE (15 marks each)**

**QUESTION 1**

- i. Define grazing management system? 2 marks
- ii. List 4 examples of intensive and 2 examples of semi-intensive grazing management systems 3 marks
- iii. Differentiate the intensive and semi-intensive grazing management systems 20 marks

**QUESTION 2**

- i. Describe the types of fertilizers used in pasture species? 5 marks
- ii. State (10) common forage crops used in livestock feeding and their botanical names. 10 marks

**QUESTION 3**

Define any seven (7) of the following.

- i. Zero grazing/Cut and carry system
- ii. Continuous grazing system
- iii. Deferred grazing system
- iv. Rotational grazing
- v. Strip grazing system
- vi. Straight Creep grazing system
- vii. Forwards Creep grazing system
- viii. First and Last Suizers grazing system 15 marks

**QUESTION 4**

- i. Highlight eight (8) advantages of the grazing management system 8 marks
- ii. Mention seven (7) disadvantages of the grazing management system 7 marks

QUESTION 5

- i. Highlight six (6) necessary decisions the manager or farmer should take to improve livestock
- ii. Which of the forage conservation techniques would you recommend to smallholder livestock enterprises in Nigeria and why? (15marks)

QUESTION 6

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| i. Highlight the benefits of hay to livestock                                    | 7 marks |
| ii. Give three (3) examples of pasture species that grow erect and horizontally. | 3 marks |
| iii. Discuss the methods of application of fertilizers to pasture specie?        | 5 marks |