



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
**FACULTY OF AGRICULTURAL SCIENCES**  
**DEPARTMENT OF ANIMAL MSCIENCE AND FISHERIES**  
**2024 1 EXAMINATION**

**Course Code:** ANP 304  
**Course Title:** Forage and Fodder Crop Production  
**Credit Unit:** 2  
**Total Score:** 70 Marks  
**Time Allowed:** 2 Hours

**INSTRUCTION:** Answer question ONE (30 marks) and any other two questions (20 marks each).

1. a) Distinguish between grazed and browsed plants. 4 marks  
b) Discuss briefly the different post-planting operations that ensures better establishment of forage yield. 10 marks  
c) Highlight the differences between semi-permanent and permanent pastures. 10 marks  
d) Highlight any six advantages of grazing management systems. 6 marks
2. a) State five desirable characters of pastures that a farmer would consider before establishing pasture species.  
b) Itemize five different sources of nutrients that you can recommend for favorable growth and establishment of pastures of a commercial farm.  
c) Enumerate five socio-economic factors that could affect pasture productivity.  
d) Highlight 5 steps important for successful establishment of improved pastures. 5 marks each = 20 marks
3. a) Define the term grazing management system. 4 marks  
b) Mention 6 disadvantages of the grazing management systems. 6 marks  
c) Describe five types of grazing management systems that are yet to be practiced in Nigeria. 10 marks
4. a) Highlight five features for each of the following growth stages of cutting pasture species;
  - i. Pre-Flowering Stage
  - ii. Flowering Stage
  - iii. Post-Flowering Stage. 5 marks each = 15 marksb) Discuss the effect of intensity of defoliation on pasture re-growth. 5 marks