



**NATIONAL OPEN UNIVERSITY OF NIGERIA  
FACULTY OF AGRICULTURAL SCIENCES  
DEPARTMENT OF ANIMAL SCIENCE AND FISHERIES**

**POP EXAMINATION 2021\_2**

**COURSE CODE:** ANP 512

**COURSE TITLE:** PASTURE AND RANGE MANAGEMENT

**CREDIT UNIT:** 2 CU

**TOTAL SCORE:** 70 MARKS

**TIME ALLOWED:** 2 Hours

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

- Q1
- a Outline the purpose of plant introduction. **15 marks**
  - b Explain the principles of forest grazing” as system of grazing management. **10 marks**
  - c List the sources of plant introduction. **5 marks**

Q2

- a. Describe the term shrubs. **2 marks**
- b. State the differentiating physiological features of shrubs from a bush and tress **12 marks**
- c. Write short notes the use of grazing stick **6 marks**

Q3 Describe in detail the following types of vegetative zone in Nigeria.

- i Sudan savanna **10 marks**
- ii Guinea savanna **10 marks**

Q4

- a. Distinguish between silage and haylage. **3 marks**
- b. Highlight the three different moisture levels which distinguish silage from haylage **6 marks**
- c. How does improving “forage production” and “increasing usability” aid in scientific range management. **8 marks**
- d. State the most critical factors for silage production. **3 marks**