



NATIONAL OPEN UNIVERSITY OF NIGERIA

Faculty of Agricultural Sciences

Department of Animal Science and Fisheries

Examination, April, 2019

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 ONE

- i. State three (3) morphological structural differences between shrubs and forage legumes.
3 marks
- ii. Give four (4) characteristics of grasses and legumes pasture plants.
Give three examples of each 14 marks
- iii. Briefly describe the morphological structure of grasses 8 marks

QUESTION TWO

- i. State precisely the sources of nutrients in pasture species 5 marks
- ii. Discuss briefly the different post-planting operations that ensures better establishment of forage yield and quality? 10 Marks

QUESTION THREE

- i. What are the basic limitations that affect the establishment of native pastures in Nigeria
3 marks
- ii. List seven (7) different ways in which native pastures can be managed effectively in your area
3.5 marks
- iii. Enumerate five (5) socio-economic factors that could affect pasture productivity in the Nigerian agricultural system. 5 marks
- iv. Highlight seven (7) desirable characters of pastures that a farmer would consider in the establishment of pasture species. 3.5 marks

QUESTION FOUR

- i. Highlight the steps important for successful establishment and high quality biomass of improved pastures. 6 marks
- ii. What are the identified limitations of improved pastures 4 marks
- iii. What are the advantages of Ley pastures over pastures associated with field Crops and pastures associated with tree crops. 5 marks

QUESTION FIVE

- i. State precisely the idea behind defoliation in pasture species 3 marks
- ii. Discuss the effect of frequency and intensity of defoliation on pasture re-growth 12 marks

QUESTION SIX

Highlight three (3) pre-planting operations that are necessary for successful pasture establishment in Nigeria. 15 marks