NATIONAL OPEN UNIVESITY OF NIGERIA
Faculty of Agricultural Sciences
Department of Animal Science and Fisheries
2020_1 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.   State two (2) methods by which pasture seeds can be planted or sown.
 ii.   Discuss briefly the different post-planting operations that ensures better establishment of forage yield and quality.
iii.   Highlight the differences between semi-permanent pastures and permanent pastures
<mark>25 marks</mark>

QUESTION 2

  i.   Define the term grazing management system.
 ii.   List 2 importance of grazing management of pastures in Nigeria
iii.   Describe 5 types of grazing management systems that are yet to be practiced by farmers in Nigeria.   <mark>15 marks</mark>

QUESTION 3

  i.   State five (5) desirable characters of pastures that a farmer would consider before establishing pasture species.
 ii.   Itemize five (5) different sources of nutrients that you can recommend for favorable growth and establishment of pastures of a commercial farm.
iii.   Enumerate five (5) socio-economic factors that could affect pasture productivity in Nigerian agricultural system.
 iv.   Highlight the steps important for successful establishment and high quality biomass of improved pastures.   <mark>15 marks</mark>

QUESTION 4

What are the distinguishing characteristics of the following growth stages of cutting pasture species?

  i.   Pre-Flowering Stage
 ii.   Flowering Stage
iii.   Post-Flowering Stage   <mark>15 marks</mark>

QUESTION 5

i   State precisely the idea behind defoliation in pasture species

ii   Discuss the effect of frequency and intensity of defoliation on pasture re-growth

<mark>15 marks</mark>

QUESTION 6

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