NATIONAL OPEN UNIVERSITY OF NIGERIA
FACULTY OF AGRICULTURAL SCIENCES
DEPARTMENT OF ANIMAL SCIENCE AND FISHERIES
September, 2020_1 Examination

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 1 (25 MARKS) AND ANY OTHER THREE
(15 MARKS EACH)

Q1 a   Define Range management.
  b   Distinguish between legume and shrubs.
  c   Briefly explain the following types of vegetation
       i   Sahel savanna
       ii   Montane
       iii   Mangrove zone
  d   Distinguish between primary and secondary introduction of plants.
  e   Explain the tips to be considered for pasture maintenance for the months of
       June and July.   **25 marks**

Q2 a   Explain "cut and weigh" and "falling plate" as a method of forage yield
       determination.
  b   What do you understand by the following terms:
  i   Grazing system
  ii   Forage
  iii Range condition
  iv   Paddock
  v   Forb   **15 marks**

Q3 Explain the following methods of plant breeding
   i   Marker-assisted breeding
   ii   Mating systems
   iii   Double Haploid breeding   **15 marks**

Q4 Expatiate on the following as factors to be considered when establishing a pasture
   i   Soil fertility
   ii   Seedbed preparation
   iii   Specie selection   **15 marks**

Q5 Discuss the phases of silage fermentation.   **15 marks**

Q6 i State the key principles in developing a grazing plan.

Q6 ii Explain **"Increasing usability of range''** as a major phases of scientific range
   management. **15 marks**