



NATIONAL OPEN UNIVERSITY OF NIGERIA
14-16 AHMADU BELLO WAY, VICTORIA ISLAND LAGOS
MARCH/APRIL 2016 EXAMINATION
SCHOOL OF AGRICULTURAL SCIENCES

COURSE TITLE/CODE: RUMINANT ANIMAL PRODUCTION (ANP 302)
TIME: 3hrs
INSTRUCTIONS: ANSWER FIVE (5) QUESTIONS IN ALL. ALL QUESTIONS CARRY EQUAL MARKS

- 1a. What do you understand by the term Ruminant Animals?
(6 Marks)
- 1b. Enumerate the Economic Importance of Keeping Ruminant Animals
(10 Marks)
- 1c. serially name the four compartments in a ruminant stomach
(4 Marks)
2. Describe in details the following breeds of large and small ruminants
(20 Marks)
 - a. White Fulani
 - b. Sokoto Gudali
 - c. Uda or Fulani Sheep
 - d. Red Sokoto Sheep
3. Describe in details how you would manage:
 - a. The Breeding Bull on your farm (10 Marks)
 - b. A cow during calving (10 Marks)
4. Discuss fully the factors to be considered when designing a house for ruminants (20 Marks)
5. Write short notes on the following:
 - a. Natural Mating
 - b. Controlled mating
 - c. Estrus synchronisation

d) Artificial Insemination
marks)

(5 Marks each. Total 20

6a. List the symptoms of Peste de Petitis Ruminant (PPR) in sheep and goats.
(5Marks)

6b. Differentiate between foot rot and Foot and mouth disease.
(10 marks)

6c. State the economic importance of disease in ruminant production
(5 Marks)

7a. List the ectoparasites of importance in ruminant animal production in
Nigeria (4 Marks)

7b. Discuss fully any 2 of the ectoparasites listed in 7a above
(12 Marks)