



NATIONAL OPEN UNIVERSITY OF NIGERIA
14-16 AHMADU BELLO WAY, VICTORIA ISLAND LAGOS
SCHOOL OF SCIENCES AND TECHNOLOGY
MAY/JUNE 2012 EXAMINATION

ANP 302 RUMINANT ANIMAL PRODUCTION
TIME ALLOWED: 2HRS 30MINS

INSTRUCTIONS: Answer Four (4) questions only. All questions carry equal marks
TIME ALLOWED: 2.30Minutes

- 1a. With the aid of a diagramme describe the components of a ruminant stomach (10Marks)
 - b. Highlight the relevance of ruminant livestock to the Nigerian economy (10Marks)
 - c. Explain the functions of the mouth in cattle (5 Marks)

- 2a. With examples differentiate between *Bos Taurus* and *Bos Indicus* (5Marks)
 - b. Describe fully the following breeds
 - (i) Ndama
 - (ii) Red Sokoto Goat
 - (iii) Yankasa Sheep (5Marks each)
 - (iv) White Fulani

- 3a. As a husbandman how would you manage the breeding bull in your herd (12 Marks)
 - b. Define the term heat period and describe the observable signs of heat in your heifer (13 Marks)

- 4a. List the mating systems you are aware of and describe fully any two (15Marks)
 - b. What are the signs of lambing and how would you manage the lambing process in your farm (10 Marks)

- 5a. What are the necessary factors to be considered when designing a ruminant livestock house (9 Marks)
 - b. Describe a house meant for intensively managed White Fulani cattle (8 Marks)
 - c. What do you understand by the following
 - (i) Heifer
 - (ii) Buck
 - (iii) Ram
 - (iv) Ewe (2 Marks each)

- 6a. Describe the following farm management practices/ Farm equipments
 - (i) Debudding
 - (ii) Hoof trimming

- (iii) Docking
- (iv) Burdizzo castrator
- (v) Drenching gun (3 Marks each)

b. Write short notes on the following

- (a) Silage
- (b) Footrot (10Marks)