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**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

INSRUCTIONS: 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 catlle (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

1. Silage
2. Footrot (10Marks)