**NATIONAL OPEN UNIVERSITY OF NIGERIA**

**FACULTY OF AGRICULTURAL SCIENCES**

**DEPARTMENT OF ANIMAL SCIENCES& FISHERIES**

**EXAMINATION QUESTIONS: November 2018**

**COURSE TITLE: NON Ruminant Animal Production**

**COURSE CODE: ANP 302 (2CU)**

**INSTRUCTION: Answer Question One (20 Marks) and any other 3 (16.6 Marks each).**

 **Total marks obtainable 70**

**TIME ALLOWED: 2 Hours**

1a. Describe in detail, the most widely distributed breed of cattle in Nigeria 5 Marks

b. With the aid of a diagram, describe the life cycle of tape worm in goats 10 Marks

c. State any 5 diseases that are common to ruminants 5 Marks

2. You are asked to design a house for cattle, what are the salient points to be considered ? 5 Marks

b. State and describe the possible mating systems that can be used in cattle 10 Marks

3a. Describe in details any 3 methods of pasture conservation 6.6 Marks

b. Briefly describe the equipment commonly used in ruminant animal production 10 Marks i.e 1.4

4a. What are the signs and symptoms of pests de petit ruminant? 5.6 Marks

b. State any 6 internal and 5 external parasites of ruminants 11 Marks

5a. State any 5 major differences between ruminant and non-ruminant animals 10 Marks

b. List any 5 diseases of ruminants of a general nature 6.6 Marks i.e 1.3 each

6. Using a diagram, show the features of a typical ruminant animal and label all the parts appropriately. 16.6 Marks i.e 1 Mark each for correct drawing and labelling. Clear drawing. = 0.6, Total = 16.6