



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
**14/16 AHMADU BELLO WAY, VICTORIA ISLAND, LAGOS**  
**SCHOOL OF SCIENCE AND TECHNOLOGY**  
**MARCH/APRIL 2014 EXAMINATION**

**COURSE CODE: AEM722**

**COURSE TITLE: RUMINANT ANIMALS**

**TIME ALLOWED: 2 ½ HRS**

**INSTRUCTION: I. ANSWER FOUR QUESTIONS IN ALL**

**II. ALL QUESTIONS ATTRACT EQUAL MARKS**

1. (a) Define Heifer, Veal, Stag, Chevron, Hogget (**10 marks**)  
(b) Explain the causes of diseases in Beef Cattle. (**10 marks**)  
(c) What signs are exhibited by the cow when she is on heat? (**5 marks**)
2. (a) Explain the process of digestion in young ruminants (**10 marks**)  
(b) Explain why dried milk powders are very suitable products for developing countries (**5 marks**)  
(c) Explain the management of kids/Lambs with emphasis on suckling, weaning and care of the kids/lambs in the event of the dam's death. (**10 marks**)
3. (a) What general measures can be adopted to prevent diseases. (**10 marks**)  
(b) Discuss the feeding of breeding males (**10 marks**)  
(c) Discuss the following sheep/goat diseases: Anthrax and Foot Rot (**5 marks**)
4. (a) Write notes on Four Important Goat breeds in the tropics that are considered to be of importance. (**16 marks**)  
(b) Explain 5 signs of ill health in ruminant animals (**5 marks**)  
(c) List the features of a sheep/goat handling unit (**4 marks**)
5. (a) Write extensively on 5 cattle breeds (**10 marks**)  
(b) List the signs of parturition in Cattle (**3 marks**)  
© Milking cows are sometimes observed to have bad traits. Discuss. (**12 marks**)

- (6) (a) Expatiate on the advantages of small ruminants over other ruminants in the supply of meat (**15 marks**)
- (b) Clearly articulate the importance of housing in Sheep/Goat management (**10 marks**)