NATIONAL OPEN UNIVERSITY OF NIGERIA
14/16, Ahmadu Bello Way, Victoria Island

SCHOOL OF SCIENCE AND TECHNOLOGY
October, 2013 Examination

Course Code: AEM 722:

Course Title: RUMINANT ANIMALS   **TIME ALLOWED: 2 ¹/₂Hrs**

INSTRUCTIONS: i. Answer FOUR questions in all
                        ii. All questions attract equal marks

1. (a) What is the role of ruminant animals in Nigerian Agriculture?
        (**10 marks**)
    (b) What general measures can be adopted to prevent diseases.
        (**10 marks**)
    (c) What signs are exhibited by the cow when she is on heat.   **(5 marks**)

2. (a) Discuss the advantages and disadvantages of the ruminant digestion process.

                                                                        (**10 marks**)
    (b) Discuss any three Sheep and Goat diseases under the following headings: Signs, Prevention, Control.
                        (**8 marks**)
    (c) Explain how the weaning of calves is conducted.   **(7 marks**)

3.   (a) Sequentially enumerate the procedure for milking a cow.
    (**10 marks**)
    (b) Expatiate on the sheep/goat handling unit.   **(10 marks**)
(c) List six the signs that an animal inhibits to suggest it is in good health.   (**3 marks**)
(d) Define Stag   (**2 marks**)

4. Write notes on the following: (**5 marks each**)
        a) Uda
        b) Yankassa
        c) Maradi
        d) Saanen
        e) Angora

5. (a) Milking cows are sometimes observed to have bad traits. Discuss. (**12 marks**)

(b) Small ruminants have comparative advantages over other ruminants. Discuss. (**10 marks**)

(c) List the processing methods of milk. (**3 marks**)

6.(a) Explain the classification of cattle based on utility. (**16 marks**)

(b)Differentiate between protein and energy concentrates. (**6 marks**)

(c) List 3 Nigerian breed and 3 foreign breeds of cattle. (**3 marks**)