

National Open University of Nigeria Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi, Abuja Faculty of Agricultural Sciences October/November, 2016

Course code: ANP 302

Course Title: RUMINANT ANIMAL PRODUCTION

TIME: 3hrs

INSTRUCTIONS: ANSWER FIVE (5) QUESTIONS ONLY. ALL QUESTIONS

CARRY EQUAL MARKS

1a. Highlight the main differences between ruminant and non-ruminant animals (8 Marks)

- 1b. Name the compartments in a ruminant stomach. (2marks)
- 1c. Outline the economic reasons for keeping ruminant animals (10 marks)
- 2. Describe in details the process of digestion in a cow from the mouth to the anus (20 Marks)
- 3. Describe in details the following breeds of large and small ruminants
- a. White Fulani
- b. Sokoto Gudali
- c. Uda or Fulani Sheep
- d. Sokoto Sheep (5 marks)
- 4. Write short notes on the following:
- a. Natural Mating
- b. Controlled mating
- c. Estrus synchronisation
- d. Artificial insemination (5 Marks)

- 5a. Briefly discuss the housing requirement of cattle (10 Marks)
- 5b. Describe how you will manage a cow during calving (10 Marks)
- 6. Differentiate between:
- a. Dry roughages and Succulent roughages (10 marks)
- b. Hay and Silage (10 marks)
- 7a. List the symptoms of PPR in sheep and goats. (5Marks)
- 7b. Differentiate between foot rot and foot and mouth disease. (10 marks)
- 7c. State the economic importance of disease in ruminant production (5 Marks)