



**NATIONAL OPEN UNIVERSITY OF NIGERIA**

**FACULTY OF AGRICULTURAL SCIENCES & FISHERIES  
DEPARTMENT OF ANIMAL SCIENCE & FISHERIES**

**2020\_2 EXAMINATION**

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

**COURSE TITLE:** Non-Ruminant Animal Production

**INSTRUCTION:** Answer Question One (25 marks) and any Three others (15 marks each) out of the remaining 5 questions, Total marks will be 70.

**TIME ALLOWED:** 2 Hours

- 1a. In a period of worldwide viral disease infection as exemplified by the pandemic, COVID-19 and the consequent restricted movements, state the best option for livestock production defining same elaborately.
- 1b. Discuss the advantages and disadvantages of your chosen option.
- 2a. In a bid to meet up with the effects of COVID-19 on livestock production, describe in detail, any common mating methods in livestock.
- 2b. Write clearly any 5 diseases of ruminants of a general nature.
3. With the aid of a well-drawn and labelled diagram, describe the features of a typical ruminant.
- 4a. Highlight succinctly, any 5 major differentiating features between non-ruminant and ruminants.
- 4b. Describe in detail, the Bunaji breed of cattle in Nigeria.
5. In a clearly tabular form, with brief explanation, list any 6 internal and 5 external parasites of ruminants
6. Write short notes on the followings:
  - a. The life cycle of a tapeworm in named ruminant animal
  - b. The salient points to be considered in the design of a large ruminant house.