



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
**FACULTY OF AGRICULTURAL SCIENCES**  
**Department of Animal Science and Fisheries**  
**2021\_2**

**AEM 722 Ruminant Animals Production (2 Credit units)**

**INSTRUCTIONS: Answer question one (compulsory) and any other 3 questions.**

**Please note that question one carries 25 marks.**

**TIME: 2 ½ hours.**

1a. Highlight the economic relevance of ruminant animals to the Nigerian agricultural sector (15Marks)

1b. Describe fully the Balami and Uda breeds of sheep found in Northern Nigeria (10marks)

2. Name and describe an important dairy goat found in the tropics (15 marks)

3. Fill in the missing spaces

<b>Term</b>	<b>Meaning</b>
Bull	
	A matured female bovine that has given birth
Calf	
	A young female cattle that is yet to give birth
Steer	
	A male cattle that is castrated after maturity
Veal	
	Meat from cattle
Parturition	
	Female sheep which has lambed
Ram	
	Young sheep usually before weaning
Cull	
	Female sheep from weaning to first lambing
Weather	

	A matured male goat
Chevon	

**Any 15 correct answers = 1 marks each total 15 marks**

4a. what do you understand by Steaming up. Highlight its relevance as an important management practice in a livestock farm (10 Marks)

4b. List the signs of estrus in sheep and goats (5 Marks)

5a. Discuss the management practices to be carried out when weaning a calf (10 Marks)

5b. List 5 breed of goats found in Nigeria. (5 mks)

6. Explain fully the observable signs of good health in ruminant animals (15 mks)

ANIMAL