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AAP 321



**MASINDE MULIRO UNIVERSITY OF
SCIENCE AND TECHNOLOGY
(MMUST)
SCHOOL OF AGRICULTURE, VETERINARY SCIENCES AND
TECHNOLOGY (SAVET)**

MAIN CAMPUS

**UNIVERSITY EXAMINATIONS
2022/2023 ACADEMIC YEAR; SEMESTER TWO**

**MAIN EXAMINATION FOR THE
BACHELOR OF SCIENCE IN AGRICULTURE EDUCATION AND
EXTENSION**

ODEL

COURSE CODE: AAP 321

COURSE TITLE: RUMINANT AND NON-RUMINANT PRODUCTION

DATE: 11TH APRIL 2023 TIME: 12-2 PM

INSTRUCTIONS TO CANDIDATES

This paper is divided into two sections, **A and B**. Answer **ALL** Questions in SECTION A and any **TWO** in SECTION B

MMUST observes ZERO tolerance to examination cheating

SECTION A: ANSWER ALL QUESTIONS (30 MARKS)

1. Give any four economic reasons for keeping ruminant animals (4marks)
2. State the functions of each of the four compartments of stomach in the alimentary canal of a ruminant. (4 marks)
3. Briefly describe one of the local breeds of cattle found in Kenya. (5 marks)
4. Give a brief description of kidding in goats. (6 marks)
5. State six important factors that must be considered when siting a cattle barn. (6 marks)
6. List the energy need of a growing lamb and a buck. (5 marks)

SECTION B: ANSWER ANY TWO QUESTIONS (40 MARKS)

7. (a). Describe the management practice for a pregnant ewe. (10 marks)
(b). Explain the procedure for debudding in a young ruminant animal. (10 marks)
8. Discuss the problems and constraints of poultry production in Kenya and suggest ways of their improvement. (20 marks)
9. Discuss Newcastle and Gumboro diseases under the following:
 - i) Vaccination programme
 - ii) Causative agents and signs
 - iii) Means of transmission
 - iv) Prophylaxis and treatment (20 marks)