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(University of Choice)

**MASINDE MULIRO UNIVERSITY OF
SCIENCE AND TECHNOLOGY**

**MAIN CAMPUS
SPECIAL/SUPPLEMENTARY EXAMINATIONS**

**UNIVERSITY EXAMINATIONS
2021/2022 ACADEMIC YEAR**

**THIRD YEAR SECOND SEMESTER EXAMINATIONS FOR THE
DEGREE OF B.Sc. IN: AGRICULTURE AND BIOTECHNOLOGY
AGRICULTURAL EDUCATION AND EXTENSION**

COURSE CODE: AAP 302

COURSE TITLE: RUMINANT AND NON RUMINANT PRODUCTION

DATE:

TIME:

INSTRUCTIONS TO CANDIDATES

Answer ALL questions in section A and ANY TWO questions in section B

TIME: 2 Hours

Total marks=70

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 2 Printed Pages. Please Turn Over.

SECTION A (30 MKS)

1.

- a) Describe the importance of saliva in rumination process of animals (2 Marks)
- b) Sometimes hive occupation by natural means may fail. Describe some of the honey bee colony management done to enhance hive occupation (4Marks)
- c) Farmers normally experience high mortality of piglets during rearing. Describe the causes of these mortalities that the farmer should be aware of (4 Marks)
- d) Describe two exotic breeds of sheep and two indigenous goat breeds common in Kenya (2 Marks)
- e) Iron is a very important element yet there is normally iron deficiency in piglets, describe the probable ways of preventing anemia in piglets (3Marks)
- f) Describe what you advise a farmer to control swarming in bees (5Marks)
- g) Describe 3 main factors a trader should consider while transporting live fingerlings (3Marks)
- h) Capture-based Aquaculture and Bait culture in fish farming (2 Marks)
- i) Describe the lowly heritable factors in goats that are useful to the breeder who wishes to improve his stock (5 Marks).

SECTION B (40MKS)

- 1. You have been posted as an Agricultural extension officer in Baringo County, having graduated from MMUST. A farmer approaches you for advice concerning how to establish an apiary. Discuss the factors you would advise the farmer to consider during siting of the apiary (20 marks)
- 2. Describe the characteristics you would advise the farmer to consider in selection of breeding doe and buck for mating (20 marks).
- 3. Pig management is dependent on certain characteristics. Describe specific characteristics of the pig that affect their Management and Production (20 marks).