



(University of Choice)

MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY

MAIN CAMPUS MAIN EXAMINATIONS

UNIVERSITY EXAMINATIONS (REGULAR) 2021/2022 ACADEMIC YEAR

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

COURSE CODE: AAP 303

COURSE TITLE: ANIMAL NUTRITION AND FEEDING

DATE: 27THAPRIL, 2022

TIME: 12-2 PM

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 MARKS)

a)	Describe the imp	ortance of feed eva	aluation in animal	l nutrition	(5 Marks)
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b) Explain the effects pelleting and crumbling on the nutritive value of feedstuff (5Marks)

c) Describe the physiological effects of gossypol in poultry

(2 Marks)

d) Explain what is meant by a maintenance ration in animals

(2 Marks)

e) Describe the importance of feeding a ruminant a consistent diet

(2 Marks)

f) Explain the differences between as fed and dry matter

(2 Marks)

g) Describe a balanced diet as applied in animal nutrition

(3 Marks)

h) Describe the information to consider on feedstuffs during ration formulation for animals

(6 Marks)

i) Use persons square to mix groundnut meal (41% CP) and maize meal (9%CP) to make a 14 % CP mixture (3 Marks)

SECTION B (40MARKS)

2.Describe factors that impact on feed intake and utilization in farm animals (20Marks)

3a) Describe the digestion of carbohydrates in non-ruminants

(10 Marks)

b). Describe the digestion of carbohydrates in ruminants

(10 Marks)

4 a.) Explain the term "alternative feed" as used in animal feeding

(2 Marks)

b.) Describe factors to consider while using alternative ingredients in feeding

(18 Marks)