

MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

MAIN CAMPUS

UNIVERSITY MAIN EXAMINATION

FOR

BSC. AGRICULTURAL EDUCATION AND EXTENSION

ODEL PROGRAM

2021/2022 ACADEMIC YEAR

SECOND YEARS

FIRST SEMESTER

COURSE CODE: SZL 211

COURSE TITLE: ANIMAL PHYSIOLOGY

DATE:28/04/2022

TIME:12-2 PM

INSTRUCTIONS TO CANDIDATES

Answer ALL questions in section A and ANY TWO in B

TIME: 2 Hours

MMUST observes ZERO tolerance to examination cheating

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

SECTION A: ANSWER ALL QUESTIONS (30 MARKS)

Question One (15 marks)

| a) Define the following terms | 9 Marks |
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| i) Homeostasis | |
| ii) Physiology | |
| iii) Extracellular fluid | |
| b) The farm manager in MMUST realized that three of their cows experienced home | ostasis |
| imbalance. Explain any three possible causes | 6 Marks |
| Question Two (15 marks) | |
| a) Expatiate on two conditions that necessitate active transport in pigs | 10 Marks |
| b) Delineate on 2 features of isotonic solution in goats | 4 Marks |
| c) Give a reason why many substances dissolve in intracellular fluid | 2 Marks |
| SECTION B: ANSWER ANY TWO QUESTIONS (40 MARKS) | |
| Question Three (20 marks) | |
| Discuss the determinants of the rate of membrane transport in goats | 20 Marks |
| Question Four (20 marks) | |
| Discuss metabolism during starvation in rabbits | 20 Marks |
| Question Five (20 marks) | |
| Discuss 5 digestion hormones in livestock | 20 Marks |
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