

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

**EXAMINATION FOR THE AWARD DEGREE OF DOCTOR OF PHILOSOPHY
OF SCIENCE IN ANIMAL SCIENCE**

ANSC 921: ADVANCED ANIMAL BIOCLIMATOLOGY AND ETHOLOGY

STREAMS: PH.D ANIMAL PRODUCTION(Y1S2)

TIME: 2 HOURS

DAY/DATE: TUESDAY 18/4/2023

8.30 A.M. – 10.30 A.M.

INSTRUCTIONS: Answer all questions.

1. Bioclimatology is the study of the effects of climatic factors on living organisms.
Describe the effect of abiotic factors on animal productivity and welfare. (30 marks)
 2. Explain to a young scientist the thermo structure of the atmosphere and its significance to an animal scientist. (20 marks)
 3. Ethology was established as a formal examinable subject within animal science course in 1970. As a result, all aspects of ethology are relatively new. At the beginning, there were two schools of thoughts namely the European and American. Describe the schools of thoughts and in your opinion state which you think was correct. (20 marks)
 4. What are behavioural systems? Describe the behavioural systems outlined by J.P. Scott in 1969. (30 marks)
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