

**SPECIFY TYPE OF
EXAMINATION**

- FIRST ATTEMPT**
FIRST RESIT
SECOND RESIT
RE-TAKE



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF AGRICULTURAL AND FOOD SCIENCES
UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN
AGRICULTURAL EXTENSION EDUCATION
2nd YEAR 2nd SEMESTER 2022/2023 ACADEMIC YEAR
SIAYA CAMPUS**

COURSE CODE: AAB 1202

COURSE TITLE: PRINCIPLES OF ANIMAL PRODUCTION

EXAM VENUE:

STREAMS: BSc.AGED, AGRIBUS, ANSCI, and FOOD SECURITY.

DATE:

EXAM SESSION:

TIME: 2 HOURS

INSTRUCTIONS:

1. Answer ALL questions in Section A and ANY other TWO questions in Section B
2. Candidates are advised not write on the question paper
3. Candidates must hand in their answer booklets to the invigilator while in the exam room

SECTION A: 30 MARKS
Answer all questions in this section

- Q1. Briefly explain the following terms (5 Marks)
- a) Animal production
 - b) Animal husbandry
 - c) Animal Science
 - d) Animal production technology
 - e) Principles of animal production
- Q2. Using an example explain what you understand by value chain approach as a concept in animal production (5 Marks)
- Q3. Outline five (5) general requirements of livestock management (5 Marks)
- Q4. Explain five (5) roles of animals in the national economy of a country (5 Marks)
- Q5. Explain five (5) constraints facing the livestock industry in Kenya and suggest ways of alleviating them (5 Marks).
- Q6. Explain these concepts in regard to physiological adaptations by animals (5 Marks).
- a) Acclimatization
 - b) Habituation
 - c) Acclimation
 - d) Conditioning
 - e) Stress-stressor-stimulus-response effect.

SECTION B (40 MARKS)
Answer any two (2) questions in this section

- Q7. Discuss how the following environmental factors affect animal production
- a) Temperature
 - b) Humidity
 - c) Altitude
 - d) Soil Condition
 - e) Light
- (20Marks).**
- Q8. Explain the following livestock production systems (20marks)
- a) Extensive system
 - b) Intensive System
 - c) Semi-Intensive system
 - d) Intensive finishing (Feedlot fattening) system)

- e) Integrated system
- f) Ranching system

Q9. The following concepts are key in the agricultural ecosystems. Discuss their roles
(20marks)

- a) The fallow
- b) Nitrogen
- c) Phosphorous

Q10. Agroecological zones is critical in animal production *(20marks)*

- a) What do understand by Agroecological zones?
- b) Briefly explain major characteristics of Agroecological zones in Kenya

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