



KISII UNIVERSITY

UNIVERSITY EXAMINATIONS

SECOND YEAR EXAMINATION FOR THE AWARD OF THE CERTIFICATE IN
ANIMAL SCIENCE / HEALTH
SECOND SEMESTER 2023/2024
[JULY, 2024]

ANSC 00250: LIVESTOCK PRODUCTION SYSTEMS: RUMINANT

STREAM: Y2 S2

TIME: 2 HOURS

DAY: MONDAY, 9:00 - 11:00 A.M.

DATE: 22/07/2024

INSTRUCTIONS

- 1. Do not write anything on this question paper.**
- 2. Answer question ONE (Compulsory) and any other TWO questions.**

1a) Differentiate between the following terms as used in ruminant husbandry.

- | | |
|--|-----------|
| i) Animal husbandry and ruminant husbandry | (4 marks) |
| ii) Culling and weaning | (4 marks) |
| iii) Artificial insemination and synchronization | (4 marks) |
| iv) Progeny and pregnancy | (4 marks) |
| v) Gestation and lactation | (4 marks) |

b) Give brief description of the following breeds of cattle (10 marks)

- i. Friesian
- ii. Arshyre
- iii. Sahiwal
- iv. Jersey
- v. Guernsey

2. a) How can you artificially rear lambs (5 marks)

b) State the precautions taken during calving (5 marks)

- c) Mention some 5 signs of kidding (5 marks)
- d) Write short notes on calf pen hygiene (5 marks)
- 3 a) Discuss the three methods of dairy cattle selection (10 marks)
- b) What can be done to improve the productivity of local goats (5 marks)
- c) Write short notes on weaning of lambs (5 marks)
- 4a) How can you graft a lamb using a placental fluid (10 marks)
- b) Briefly give the difference between enterotoxaemia and ketosis in sheep.
- c) Outline at least 5 factors to consider while deciding on beef production systems (5 marks)