

MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

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University Examinations 2024/2025

SECOND YEAR FIRST SEMESTER EXAMINATION FOR CERTIFICATE IN ANIMAL HEALTH AND PRODUCTION

AAP 1215: LIVESTOCK PRODUCTION SYSTEMS, RUMINANTS

DATE: JANUARY 2025 TIME: 1¹/₂ HOURS

INSTRUCTIONS:

Answer question **ONE** and any other **TWO** questions

QUESTION ONE (30 MARKS)

a)	Define production system	(2 Marks)
b)	Explain three types of production systems	(6 Marks)
c)	Give two ways used in genetic improvement	(2 Marks)
d)	What is estrus cycle in ruminants	(3 Marks)
e)	Identify three main common reproductive disorders	(3 Marks)
f)	Identify two vitamins, their functions, deficiency signs and symptoms sou	irces in dairy
	production	(6 Marks)
g)	Explain two methods of intensive livestock production system	(4 Marks)
h)	Give four signs of estrus in ruminants	(4 Marks)

QUESTION TWO (15 MARKS)

a) Di	iscuss four methods used in heat detection in cows	(8 Marks)
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b) Highlight functions and deficiency of both calcium and phosphorus (7 Marks)

QUESTION THREE (15 MARKS)

a) Discuss five advantages of semi intensive systems (10 Marks)

b) Highlight five function of lipids in dairy cattle (5 Marks)

QUESTION EOUR (15 MARKS)

a) Describe anthrax disease based on causative agent, signs and symptoms, treatment and control (10 Marks)

b) Give five signs of parturition in camels (5 Marks)