

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF CERTIFICATE IN ANIMAL HEALTH AND PRODUCTION

AGRI 00271: PASTURE AND FODDER PRODUCTION

STREAMS: CERT. ANHE (Y2S2)

TIME: 2 HOURS

DAY/DATE: MONDAY 14/04/2025

8.30 A.M. – 10.30 A.M.

INSTRUCTIONS

- Answer all questions in section A (40 marks) any two in section B (30 marks)

SECTION A: ANSWER ALL QUESTIONS [40 MARKS]

QUESTION ONE

- Outline the qualities of good silage [4 Marks]
- Explain three ways in which pastures help to improve soil fertility [3 marks]
- Explain three main objectives of pasture management [3 marks]

QUESTION TWO

- Briefly describe the pruning regime for sesbania fodder [2 marks]
- Explain why it is important to plant scarified seed as fast as possible within 24hrs after mechanical scarification [3 marks]
- With your knowledge in fodder production, advice farmers on any four (4) characteristics to consider when selecting trees for fodder production [4 marks]

QUESTION THREE

- Weeds in pastures have serious economic implications which may affect the goal of the farmer. Explain [4 marks]

- b) Briefly discuss any three (3) impacts of pasture and fodder on soil and environment [3 marks]
- c) As an expert in pasture establishment, advice farmers on factors to consider when preparing a seed bed [4 marks]

QUESTION FOUR

- a) Explain three ecological factors that influence the distribution of pasture grasslands [6 marks]
- b) How does nitrogen fertilization enhance pasture establishment and management? [4 marks]

SECTION B: ANSWER ANY TWO QUESTIONS (30 MARKS)

QUESTION FIVE

- a) Discuss factors influencing Seed rate during pasture planting [6 Marks]
- b) Discuss intensive grazing management system giving its advantages and disadvantages [9 marks]

QUESTION SIX

- a) Discuss four key reasons why pasture and fodder conservation is essential for sustainable livestock production [8 marks]
- b) Discuss how the nutritive value of hay is influenced by the stage of harvesting and drying process [7 marks]

QUESTION SEVEN

- a) Describe silage making process [8 marks]
 - b) As an extension officer, advice farmers on factors to consider when establishing mixed stands [7 marks]
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