

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

**EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN
ANIMAL SCIENCE**

AGRI/AGRO 271: PASTURE AND FODDER CROP MANAGEMENT

STREAMS: BSC ANSC

TIME: 2 HOURS

DAY/DATE: MONDAY 08/04/2024

11.30 A.M – 1.30 P.M.

INSTRUCTIONS:

- **Label your answer clearly**
- **Don't mix up answers.**
- **Answer ALL QUESTIONS in SECTION A and ANY TWO in SECTION B.**

SECTION A

1. (a) Distinguish between:
 - (i) Pollarding and copping (2 marks)
 - (ii) Scarification and inoculation (2 marks)
 - (iii) Pasture and fodder (2 marks)
2. "One of the importance of pasture fodder is to improve soil fertility through mineral recycling, formation of organic matter and redistribution of nutrients." Discuss. (6 marks)
3. (a) Briefly explain the stocking rate (4 marks)
 - (b) Why is it recommended that a livestock feed ration should not contain very high amount of
 - (i) Calliadra (2 marks)
 - (ii) Fodder sorghum (2 marks)
4. (a) Explain the fermentation phases during the silage making process. (4 marks)
 - (b) Discuss factors that affect hay quality. (6 marks)

SECTION B

5. (a) Factors considered at the Time and Planting pasture and fodder crop. (10 marks)
- (b) Explain the detailed procedure of making baled hay. (10 marks)
6. (a) Define the term silage. (2 marks)
- (b) Briefly describe the plastic tube silo. (6 marks)
- (c) Briefly discuss various characteristics of good ensiling procedure during fodder conservation. (12 marks)
7. (a) Discuss under sowing as a method of pasture and fodder establishment. (12 marks)
- (b) Briefly explain factors that affect the carrying capacity and the stocking rate. (8 marks)
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