



KENYATTA UNIVERSITY
EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE ANIMAL
HEALTH AND PRODUCTION

KAS 308: PASTURES UTILIZATION AND CONSERVATION

2ND SEMESTER 2020/2021

TIME: 2 HOURS

INSTRUCTIONS:

Answer ALL Questions in Section A and any other TWO Questions in Section B

SECTION A: ANSWER ALL QUESTIONS (40 MARKS)

1. State the factors to consider when selecting a pasture conservation method.
(5 marks)
2. With aid of an illustration, explain how the stage of growth influences the nutritive value of a forage.
(5 marks)
3. Explain briefly why the provision of feed that is adequate both in quality and quantity and is accessible to animals all year round is the most outstanding problem of livestock production in Kenya.
(5 marks)
4. Discuss briefly the methods that can be used to alleviate seasonal fodder production.
(5 marks)
5. Explain the alternative strategies that should be considered before coming to a decision (lean season feeding strategies) when planning a farm's fodder production and conservation.
(5 marks)
6. Explain the procedure for determining approximate moisture level of chopped silage by means of a "grab test".
(5 marks)

7. Outline the stages in baling hay using the hay box. (5 marks)
8. Briefly describe causes of losses during:
- (i) Hay making (2 ½ marks)
 - (ii) Silage making (2 ½ marks)

SECTION B: ANSWER ANY TWO QUESTIONS (30 MARKS)

9. (a) Discuss the main operations in haymaking. (10 marks)
- (b) Discuss the basic principles of ensiling wet by-products. (5 marks)
10. (a) Describe the steps to be followed when making silage using plastic tubes. (7 marks)
- (b) Discuss the physical aspects limiting the quality and utilization of feeds in Kenya. (8 marks)
11. (a) Describe any four (4) types of silage storage systems. (8 marks)
- (b) State the advantages and disadvantages of indoor and outdoor hay storage systems. (7 marks)