

(Knowledge for Development)

KIBABII UNIVERSITY
UNIVERSITY EXAMINATIONS
2020/2021 ACADEMIC YEAR

THIRD YEAR 2ND SEMESTER
MAIN EXAMINATIONS

FOR THE DEGREE OF BACHELOR OF EDUCATION SCIENCE

COURSE CODE: ACR 321

COURSE TITLE: PASTURE AND FODDER CROPS

DATE: 6TH OCTOBER 2021

TIME: 9 – 11 AM

INSTRUCTIONS TO CANDIDATES

Answer Question ONE and any other TWO Questions.

TIME: 2 Hours

This paper consists of 2 printed pages. Please Turn Over



KIBU observes ZERO tolerance to examination cheating

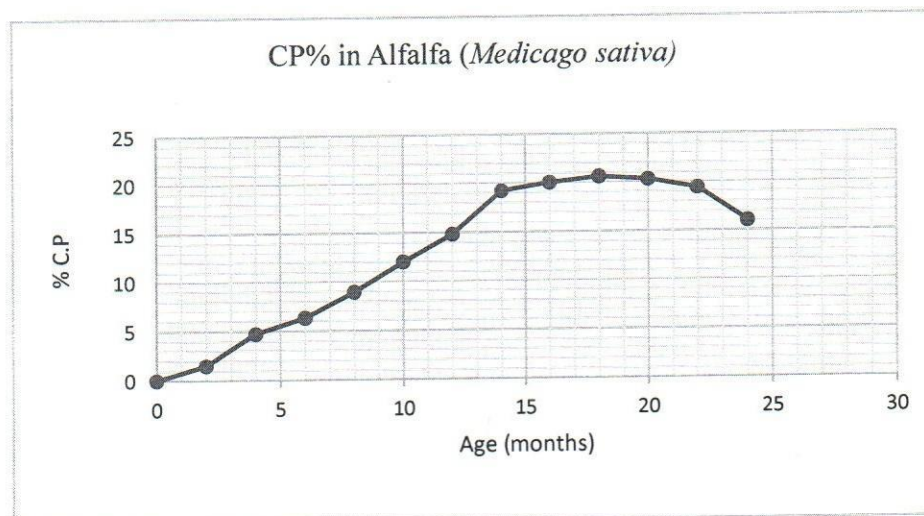
1. (a) With specific reference to field management of pasture and fodder crops: -

(i) Give four reasons why knowledge of seed types of various grass/legume species is important. (4 marks)

(ii) State four distinguishing characteristics of the seed types in (a) above. (4 marks)

(iii) Distinguish between rhizomes and stolons in pasture grasses. (2 marks)

(b) Study the graph below and answer the questions that follows: -



(i) Explain the relationship between crude protein (CP %) content and time in the given pasture species. (3 marks)

(ii) State the highest CP % content recorded and when it was recorded. (2 marks)

(iii) Briefly discuss the behaviour of the curve between 20-24 months. (5 marks)

(c) (i) Identify four potential losses during hay making. (4 marks)

(ii) Briefly explain the assessment of hay quality. (6 marks)

2. Discuss coordinated and uncoordinated resource use in Kenyan pasturelands stating the advantages and disadvantages in each case. (20 marks)

3. Describe the types of silos in silage making stating the merits and demerits in each case. (20 marks)

4. State and exhaustively discuss the factors constraining dairy production in Kenya. (20 marks)

5. Discuss the role of crop residues in the diet of feeding ruminants and outline the improvements that can be made to raise their nutritive value. (20 marks)