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(Knowledge for Development)

KIBABII UNIVERSITY
UNIVERSITY EXAMINATIONS
2021/2022 ACADEMIC YEAR

THIRD YEAR FIRST SEMESTER
MAIN EXAMINATION

FOR THE DEGREE OF BACHELOR OF SCIENCE IN
AGRICULTURAL EDUCATION AND EXTENSION

COURSE CODE: ACR 312

COURSE TITLE: PASTURE AND FODDER CROPS

DATE: 19TH MAY 2022

TIME: 9 – 11 AM

INSTRUCTIONS TO CANDIDATES

Answer Question ONE and any other TWO Questions.

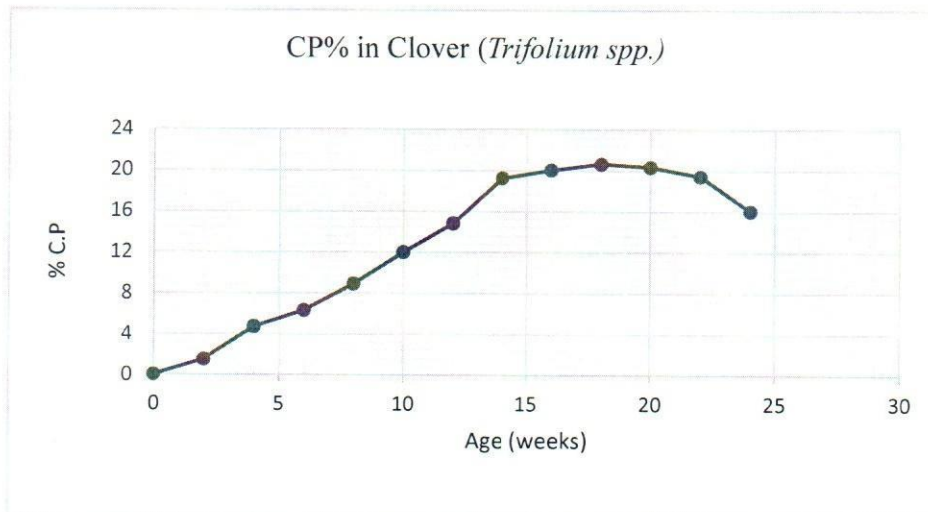
TIME: 2 Hours

This paper consists of 2 printed pages. Please Turn Over



KIBU observes ZERO tolerance to examination cheating

1. (a) Study the graph below and answer the following questions: -



- (i) Explain the relationship between crude protein (CP %) content and age 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 weeks. (5 marks)
- (b) A farmer purchased 150 kg of DAP (18:46:0) to plant his 0.80 Ha field with Boma Rhodes (*Chloris gayana*). He top dressed the pasture with 200 kg/ha of Urea.
- (i) Calculate the rate of phosphate applied per acre. (5 marks)
- (ii) Estimate the total Nitrogen (N) applied on the farm. (5 marks)
- (c) Briefly highlight the desired characteristics of a good fodder species. (10 marks)
2. Discuss the effect of plant and ecological factors on pasture availability for year-round livestock feeding in Kenya. (20 marks)
3. Describe the procedure for hay preparation stating the precautionary measures against loss of the pasture quality. (20 marks)
4. Identify the types of pastures grown in Kenya and explain the advantages and disadvantages of their methods of propagation. (20 marks)
5. Discuss the effect of grazing management on pasture and fodder production in Kenya. (20 marks)