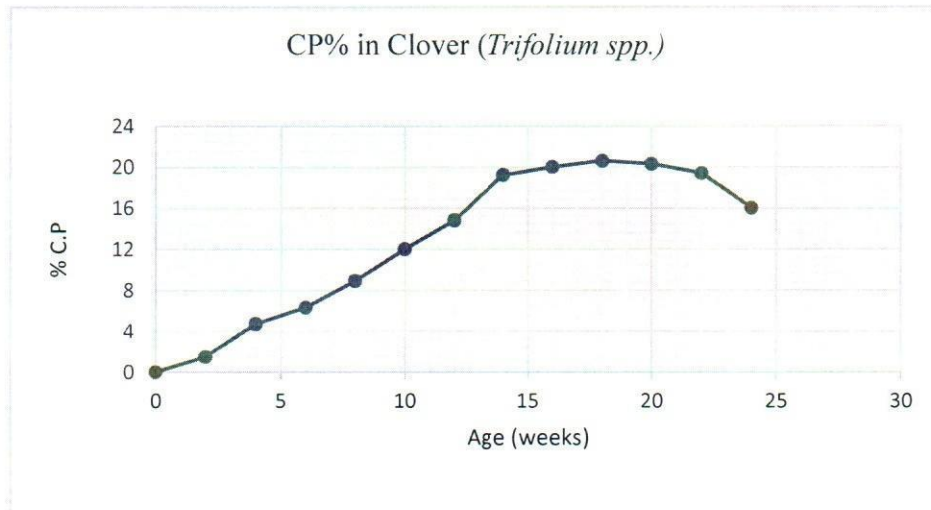




1. (a) Study the graph below and answer the following questions: -



(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)