

**CHUKA**



**UNIVERSITY**

**UNIVERSITY EXAMINATIONS**

**FOURTH YEAR EXAMINATION FOR THE AWARD OF DEGREE OF  
BACHELOR OF SCIENCE IN WILDLIFE AND ENTERPRISE MANAGEMENT**

**WIEM 425: WILDLIFE NUTRITION**

**STREAMS: BSC (WIEM) Y4S2**

**TIME: 2 HOURS**

**DAY/DATE: TUESDAY 14/04/2020**

**8.30 AM – 10.30 AM**

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**INSTRUCTIONS:**

- **Answer ALL Questions in Section A and any Two Questions in Section B**
- **Do not write anything on the question paper**

**SECTION A (30 MARKS)**

1. Explain why cellulose lipids present a challenge to digestion and indicate how this challenge is overcome in ruminants. [4 marks]
2. Explain the main roles of the following animals' parts in food digestion. [6 marks]  
(a) Cecum (b) Small intestines (c) Large intestines
3. Explain six fundamental functions of water in an animal's body. [6 marks]
4. Explain the causes of the following nutritional conditions in animals: [4 marks]  
(a) Ketoses (b) Keratitis (c) Malnutrition (d) Starvation
5. Briefly describe the Trial and Error Method of Ration Formulation. [5 marks]
6. Explain five parameters that can be monitored to indicate the nutritional status of an animal. [5 marks]

**SECTION B (40 MARKS)**

7. Suppose you have been consulted to do an inventory of food resources available for herbivores in a proposed conservancy. Discuss the main issues you would focus on during the inventory. [20 marks]
  8. Discuss the factors that influence composition and nutritive quality of plants. [20 marks]
  9. Discuss the factors that affect feed intake by free ranging wildlife in the East African Savannah. [20 marks]
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