

**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 : WEDNESDAY 22 /09/ 2021**

**8.30 AM – 10.30 AM**

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**INSTRUCTIONS TO CANDIDATES:**

- Answer ALL Questions in SECTION A and any other TWO in Section B.
- DO NOT WRITE ANYTHING on the question paper.

**SECTION A (30 MARKS)**

1. As a wildlife manager, explain five animal nutrition issues you should be concerned about. [5 Marks]
2. Explain the strategies used by hindgut fermenters and foregut fermenters to get their dietary energy and proteins from their ingesta. [5 Marks]
3. Explain six fundamental functions of water in an animal's body. [6 Marks]
4. Explain one main function of each of the following nutrients in animals.[4 Marks]  
(a) Iron (b) Magnesium (c) Phosphorus (d) Zinc
5. Briefly describe the Trial and Error Method of Ration Formulation. [5 Marks]
6. Write short notes on the importance metabolism in the body. [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. Suppose you are required to assess and evaluate the nutritional quality of forage in a captive animal facility. Discuss the factors you would consider to determine the nutritional quality of the forage. [20 Marks]
  9. Discuss the factors that influence energy requirements in wildlife. [20 Marks]
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