CHUKA   **UNIVERSITY**

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD DEGREE OF
BACHELOR OF WILDLIFE ENTERPRISE AND MANAGEMENT

WIEM 445:   WILDLIFE STOCK ASSESSMENT

STREAMS: BSC WIEM Y4 S2   **TIME: 2 HOURS**

DAY/DATE: THURSDAY 9/04/2020   **8.30 A.M - 10.30 A.M.**

INSTRUCTIONS
- Answer Question One and any other Two Questions.
- Do not write on the question paper

SECTION A [30 MARKS]

1. Write short notes on:
    a. Current yield   [2 Marks]

    b. Recruitment   [2 Marks]

    c. Stock Assessment   [2 Marks]

2. Explain the two categories of models used in wildlife stock assessment.   [6 Marks]

3. Briefly describe the three main types of data which one ought to collect during fish stock assessments.   [6 Marks]

4. You have been consulted to manage Sagana Fish Farm, discuss three main management approaches you can employ.   [6 Marks]

5. Briefly explain four aspects of a population used in determining whether population is increasing or declining.   [4 Marks]

6. You have been consulted by Soysambu Conservancy to assess tilapia fish stock at Lake Elementaita. Highlight four aspects you will be required to include in the final report.

[2 Marks]

SECTION B [40 MARKS]

7. a) Discuss the key approaches you would use when assessing the levels of threat to the Nile

b) Explain the aspects of fisheries management which one needs to consider in order to achieve high productivity in a fisheries enterprise. [12 Marks]

8. Discuss the factors driving population dynamics of Eland populations at the Olpejeta Conservancy. [20 Marks]

9. Mount Kenya Wildlife Conservancy is seeking a solution to the complex challenges in wildlife resource management. Describe the process you would follow when implementing adaptive management in solving the challenges. [20 Marks]