

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

**EXAMINATION FOR THE AWARD OF MASTER OF SCIENCE DEGREE IN
WILDLIFE MANAGEMENT**

WIEM 832: ADVANCED POPULATION DYNAMICS

STREAMS: MSc. WIEM (Y1B2)

TIME: 2 HOURS

DAY/DATE: TUESDAY 6 /07/ 2021

2.30 PM – 4.30 PM

INSTRUCTIONS:

- Answer ALL Questions in Section A and any other TWO Questions in Section B.
- Do not write anything on the question paper

SECTION A: (20 MARKS)

1. Discuss various limitations to achievement of Maximum Sustainable Yield (MSY) in wildlife utilization. [6 Marks]
2. Describe the logistic growth model in population dynamics. [4 Marks]
3. Describe the consequences of overharvesting on population dynamics. [4 Marks]
4. Describe four idealized patterns of populations to a given carrying capacity (K) of their environment. [6 Marks]

SECTION B: 40 MARKS

1. Discuss the effect of climate change on wildlife population dynamics and management. [20 Marks]
 2. Discuss four factors responsible for population dynamics and their implications in wildlife management for sustained conservation. [20 Marks]
 3. Discuss 'hunting' as a concept for population dynamics and management. [20 Marks]
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