

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF DEGREE OF MASTER OF

WIEM 832: ADVANCED POPULATION DYNAMICS

STREAMS: MSC. WIEM

TIME: 2 HOURS

DAY/DATE: TUESDAY 06/08/2019

2.30 P.M. – 4.30 P.M.

INSTRUCTIONS:

SECTION A: 20 MARKS (ANSWER ALL QUESTIONS)

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 (ANSWER ANY TWO QUESTIONS)

1. Discuss the effects of climate change on wildlife population dynamics and management. (20 marks)
 2. Discuss factors responsible for population dynamics and their implications on wildlife management for sustained conservation. (20 marks)
 3. Discuss 'hunting' as a concept for population dynamics and management. (20 marks)
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