



KENYATTA UNIVERSITY
UNIVERSITY EXAMINATIONS 2010/2011
OPEN, DISTANCE AND E-LEARNING EXAMINATION FOR THE DEGREE
OF BACHELOR OF EDUCATION AND BACHELOR OF SCIENCE

SBT 309: PLANT ECOLOGY

DATE: Saturday 9th July 2011 **TIME:** 11.00a.m – 1.00p.m

INSTRUCTIONS: Answer all questions within the space provided (5 Marks each)

1. Why do we refer to density-dependent fecundity in plants as delayed density-dependence

2. Discuss the predation model in plants

3. State five differences between r-selection and k-selection

4. a) Describe included niche

- b). Describe niche overlap

5. Briefly describe the point - centered – quarter and closest individual sample methods in vegetation ecology

6. Briefly explain the agglomerative polythetic cluster analysis

7. Briefly discuss gradient analysis

8. a). What is ordination?

b). State three objectives of ordination.

SECTION B: ESSAY QUESTIONS (30 MARKS).

Write an essay on any 1 (ONE) of the following topics. Use the provided answer booklet.

1. Regulation of plant population
2. Methods in vegetation ecology
3. Hutchinson's concept of niche overlap and competition