



KENYATTA UNIVERSITY
UNIVERSITY EXAMINATIONS 2011/2012
SECOND SEMESTER EXAMINATION FOR THE DEGREE OF SCIENCE
(COASTAL AND MARINE RESOURCE MANAGEMENT)

SMR 200: MARINE BIODIVERSITY

DATE: Monday 26th March 2012

TIME: 11.00a.m – 1.00p.m

INSTRUCTIONS

Answer ALL questions from Section A and any ONE Question from Section B. Within a Section all questions carry equal marks. Illustrate your answers and give examples where appropriate.

SECTION A: Answer ALL questions (40 marks)

1. Explain the following terms:
 - a) Genetic diversity
 - b) Threaten species
 - c) Alpha diversity
 - d) Beta diversity
 - e) Biodiversity hot spots
2. Briefly describe effect of commercial fisheries on marine biodiversity.
3. Describe how you would determine the diversity index of a sandy shore.
4. Outline the factors which have led to mangrove forest degradation.
5. Describe the effects of an oil spill accident on marine biodiversity.
6. Explain the role of marine parks in biodiversity conservation.
7. Describe the adaptations the organisms found in the intertidal zone.
8. Outline effect of climate change on marine biodiversity.

SECTION B: Answer any ONE question (30 marks)

9. Discuss the factors which can lead to species extinction on the marine ecosystems.
10. Compare and contrast biodiversity in the different marine eco-zones.
11. "The coral reefs have been described as the tropical rain forests and the sea". Discuss this statement.