MAASAI MARA UNIVERSITY

REGULAR UNIVERSITY EXAMINATIONS
2019/2020 ACADEMIC YEAR
FORTH YEAR FIRST SEMESTER

SCHOOL OF NATURAL RESOURCE MANAGEMENT AND ANIMAL HEALTH

BACHELOR OF ENVIRONMENTAL STUDIES BIOLOGY AND HEALTH

COURSE CODE: EBH 4137
COURSE TITLE: MARINE ECOLOGY AND CONSERVATION

DATE: **TIME:**

INSTRUCTIONS TO CANDIDATES

Answer **ALL** questions in section **A** and any other **THREE** in section **B.**

This paper consists of 2 printed pages. Please turn over

SECTION A (25 MARKS)

ANSWER ALL QUESTIONS

1. Define the following terms:
   a) Marine Ecology **(2 Marks)**
   b) Oceanography **(2 Marks)**
   c) Thermocline **(2 Marks)**
   d) Theoretical carrying capacity **(2 Marks)**
   e) Biodiversity **(2 Marks)**
2. Explain what you understand by the term 'discounting the future' in relation to economics of fish conservation. **(5 Marks)**
3. List the effects of persistent contaminants in the Marine environment **(5 Marks)**
4. Outline the adaptive nature of planktons to pelagic environment **(5 Marks)**

SECTION B (45 MARKS)

ANSWER ANY 3 QUESTIONS

5. Discuss the physical and chemical environmental parameters that influence distribution of organisms in the deep sea **(15Marks)**
6. Discuss the threats facing mangrove wetlands along the Kenyan coast **(15 Marks)**
7. Marine reserves have useful roles in marine conservation. Discuss potential conservation benefits of Marine reserves **(15 Marks)**
8. Discuss the adaptations of benthopelagic fish to survive in the deap sea **(15Marks)**

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