



TECHNICAL UNIVERSITY OF MOMBASA

Faculty of Engineering and Technology
Department of Mechanical & Automotive Engineering
UNIVERSITY EXAMINATION FOR:
Diploma Marine Engineering
EMR 2108 : MARINE ENVIRONMENT PROTECTION 1
END OF SEMESTER EXAMINATION
SERIES: DECEMBER 2016
TIME: 2 HOURS
DATE: Pick Date Dec 2016

Instruction to Candidates:

You should have the following for this examination

- *Answer booklet*
- *Non-Programmable scientific calculator*

This paper consists of **FIVE** questions. Attempt **ANY THREE** questions.
Maximum marks for each part of a question are as shown.

Do not write on the question paper.

Question ONE

- a) What are the causes of Coral diseases? **4 marks**
- b) Explain any 4 Coral diseases. **16 marks**

Question TWO

- a) Describe the following types of fish found in an Estuary.
- i) Freshwater fishes
 - ii) True estuarine fishes
 - iii) Diadromous fishes
- 8 marks**
- b) Explain the factors that affect fish distribution in an Estuary. **12 marks**

Question THREE

- a) Explain the following marine ecosystems:
- i) Coastal waters
 - ii) Lagoons
 - iii) Open Oceans
 - iv) Soft- bottom continental shelves
- 8 marks**

b) Explain 6 problems caused by Marine Litter.

12 marks

Question FOUR

a) Define the following terms as used in UNCLOS:

- i) Area
- ii) Authority
- iii) Activities in the Area
- iv) Dumping
- v) State parties

10 marks

b) Define the following terms as used in LDC (London Dumping Conventio);

- i)Sea
- ii)Special Permit
- iii)General Permit
- iv) Wastes or other matter

10 marks

Question FIVE

a) Define the following;

- i) Reefs
- ii) Corals

4 marks

b) State the roles of Marine Protected Areas in protecting marine habitats and biodiversity

15 marks