



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) Define the following terms as used in Convention on the prevention of marine pollution by dumping of wastes and other matter;
- i) Vessels and aircraft
 - ii) Organization **4 marks**
- b) Passage of a foreign ship shall be considered to be prejudicial to the peace, good order or security of the coastal State if in the territorial sea it engages in certain activities. State any 8 of the activities. **16 marks**

Question TWO

- a) What are the causes of Coral diseases? **4 marks**
- b) What are the global threats to Coral Reefs? **15 marks**

Question THREE

- a) Explain in detail the following Shipboard Oil Pollution Emergency Plan (SOPEP), terms.
- i) Actual Discharge
 - ii) Probable Discharge **10 marks**

- b) Define the following terms as used in International Convention Relating to Intervention on The High seas in Cases of Oil Pollution Casualties;
- i) Marine Casualty
 - ii) Ship
 - iii) Oil
 - iv) Organization
- 10 marks**

Question FOUR

- a) What is a marine protected area (MPA)? **2 marks**
- b) Briefly explain 5 benefits of MPAs. **10 marks**
- c) Briefly explain any 4 types of marine ecosystems **8 marks**

Question FIVE

- a) Explain any FOUR types of fishes found in an Estuary. **10 marks**
- b) Explain the factors that affect fish distribution in an Estuary. **10 marks**