



THE CATHOLIC UNIVERSITY OF EASTERN AFRICA

A. M. E. C. E. A

MAIN EXAMINATION

JANUARY – APRIL 2015 TRIMESTER

FACULTY OF SCIENCE

DEPARTMENT OF NATURAL SCIENCES (BIOLOGY)

SCHOOL FOCUSED PROGRAMME

BIO 403: MARINE BIOLOGY

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Date: April 2015

Duration: 2 Hours

Instructions: Answer Question ONE and any other TWO Questions.

- Q1. a) Explain the meaning of the following terms.
- i) Tides
 - ii) Currents
 - iii) Nektons
 - iv) Infauna
 - v) Upwelling
- (5 marks)**
- b) i) Define the term Oceanography.
- (2 marks)**
- ii) Outline Main reasons for studying oceanography
- (4 marks)**
- c) i) State two ways through which oil enters the ocean.
- (2 marks)**
- ii) Explain four effects of oil spillage in the marine environment.
- (4 marks)**
- d) i) Outline the various adaptations of the mangroves to variable salinity.
- (2 marks)**
- ii) Explain three main economic importance of Coral Reefs in Kenya.
- (2 marks)**
- iii) Explain why the sea turtle are facing extinction today.
- (2 marks)**
- e) i) State three adaptations of organism to the sea bottom.
- (3 marks)**
- ii) State two methods of measuring primary production in the Marine environment.
- (2 marks)**

- Q2. Discuss the physical division of the Marine Environment. **(20 marks)**
- Q3. Discuss the classification of Marine Mammals. **(20 marks)**
- Q4. Discuss the major differences between Marine and Inland water environment. **(20 marks)**
- Q5. Write an essay on the sea grass community within the Marine Environment. **(20 marks)**

END