

Technical University of Mombasa

Faculty of Applied and Health Sciences

Department of Environment and Health Sciences

Degree of Bachelor of Science in Marine Resources Management

BSMR 14S / Year 2 / Semester 2

Code: AES 4210: Introduction to Oceanography

SEMESTER EXAMINATION

Series: May / 2016

TIME: 2 Hours

Instructions to candidates:

This paper consist of FIVE questions

Answer question ONE (compulsory) and any other TWO questions

This paper consists of two printed page

QUESTION ONE

SECTION A:

- a. Explain the term Oceanography? [3 marks]
- b. (i). Why is the study of oceanography important? [1.5 marks]
- b. (ii). State the effects Ocean Acidification on Corals and Shellfish? [1.5 marks]
- c. (i). Why is Jacques Cousteau important to oceanography? [1.5 marks]

- c. (ii). What Nutrients are found in the ocean? [1.5 marks]

- d. (i). Tsunamis are there in the oceans. What can be done? [1.5 marks]

- d. (ii). State the ecosystem response to climate? [1.5 marks]

- e. (i). Explain Ocean Heating and Cooling? [1.5 marks]
- e. (ii). What are Oil Spills and Oil Seeps? [1.5 marks]

- f. (i). Explain how upwelling impact fish population? [1.5 marks]

- f. (ii). Explain Nutrient Pollution and Dead Zones in the ocean? [1.5 marks]

- g. State the Geographic Distribution of Coral Reefs? [3 marks]

- h. (i). State what happens during an El Nino? [1.5 marks]
- h. (ii). Show the evidence for Continental Drift? [1.5 marks]

- i. List of Environmental Issues in Oceanography? [3 marks]

- j. What have the experts done for the public to believe that there is Climate Change and Rising Sea Level? [3 marks]

SECTION B:

- 2. Explain the Derelict Fishing Gear and Ghost Fishing? [20 marks]

- 3. (i). Oceans hold around 50 times more carbon than the atmosphere. Explain? [10 marks]
- 3. (ii). State 5 facts about Oceanography? [10 marks]

4. The Atlantic Ocean is getting bigger and the Pacific Ocean is getting smaller. Discuss? [20 marks]

5. (i). Explain for every species of marine life we know of, at least another three are yet to be discovered? [10 marks

5. (ii). Discuss the reasons of scientists studying Oceanography? [10 marks]