

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. What do the following scientists study?

- i. Chemical oceanographers
- ii. Biological oceanographers

- iii. Geological oceanographers
- iv. Physical oceanographers. [3 marks]

- b. Give reasons why is oceanography important?[3 marks]
- c. Differentiate between Tides and Tsunamis? [3 marks]
- d. State what is meant by Ocean Layers and Ocean Mixing? [3 marks]
- e. State the sources of hazardous substances? [3 marks]
- f. (i). How do human activities accelerate eutrophication? [1.5 marks]
- f. (ii). State the Oceanic Renewable Energy Sources? [1.5 marks]
- g. (i). State the feeding strategies of filter feeders and deposit feeders in the Ocean? [1.5 marks]
- g. (ii). Explain the term El Nino? [1.5 marks]
- h. (i). Explain the benthic zones in the ocean? [1.5 marks]
- h. (ii). What is the Mystery of the Bermuda Triangle?[1.5 marks]
- i. (i). How did Jacques Cousteau impact the world?[1.5 marks]
- i. (ii). Explain the disappearing Microbes? [1.5 marks]
- j. (i). Why is it important for phytoplankton to sink slowly? [1.5 marks]
- j. (ii). State the Human Impact on the Beach Environment? [1.5 marks]

SECTION B:

- 2. (i). Half of all the oxygen we breathe is produced in the ocean. Explain?[10 marks]
- 2. (ii). We Have Reduced Oceans to Dump Yard. Explain? [10 marks]

3. (i). The rise in the incidents of whales and dolphins beaching in various parts of the world, has some connection with acoustic pollution in the oceans? Discuss? [10 marks]

3. (ii). Discuss the introduced species gone rogue? [10 marks]

4. The oceans may seem vast, but they are small compared to the overall size of our planet. Explain? [20 marks]

5. Discuss what oceanographers do in their many disciplines within oceanography? [20 marks]