



# TECHNICAL UNIVERSITY OF MOMBASA

*Faculty of Applied & Health Sciences*

## DEPARTMENT OF ENVIRONMENT AND HEALTH SCIENCES

UNIVERSITY EXAMINATION OF DEGREE OF  
BACHELOR OF SCIENCE MARINE RESOURCE  
(BSMR 14 J)

### **AES : 4106** **INTRODUCTION TO MARINE ECOLOGY**

**SEMESTER:** END OF SEMESTER EXAMINATIONS

**SERIES:** APRIL/MAY, 2014

**TIME:** 2 HOURS

#### **INSTRUCTIONS TO CANDIDATES:**

- This paper consists of **TWO SECTIONS: A and B**
  - Answer **ALL** questions in section **A**.
  - Answer any **TWO** questions from section **B**
- This paper consists of **TWO PRINTED** pages

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#### **SECTION A: (COMPULSORY)**

##### **QUESTION 1**

- 1) Explain what is science? **(3 marks)**
- 2) Explain what is experimentation in sciences? **(3 marks)**
- 3) Define and give examples about trophic levels **(3 marks)**
- 4) Give examples to illustrate about the ecotone **(3 marks)**
- 5) Explain how water cycle process is carried out? **(3 marks)**
- 6) State what are producers? **(3 marks)**

- 7) Evaluate best farmed choices. (3 marks)
- 8) List any **THREE** important examples of energy flow. (3 marks)
- 9) Evaluate the impact of water cycle. (3 marks)
- 10) Give a definition and analyze the point of view of biome. (3 marks)

**SECTION B: Answer any TWO questions from this section**

**QUESTION 2**

- a) Discuss and give examples of the detritus feeders and decomposers? (10 marks)
- b) Define and give examples of classification of protists? (10 marks)

**QUESTION 3**

Explain and give examples how organisms can get energy? (10 marks)

- b) Discuss the solutions of the Bycatch? (10 marks)

**QUESTION 4**

- a) Discuss and give examples of carbon cycle? (10 marks)
- b) Explain the Hierarchical classification of corals? (10 marks)

**QUESTION 5**

- a) Explain and give examples why human have greatly influenced in nitrogen cycle? (10 marks)
- b) Discuss and give examples of direct stresses of the interaction of man, pollution and the Coral Reef (10 marks)

**QUESTION 6**

- a) Discuss and give examples of the hydrological cycle? (10 marks)
- b) State the Economic Resources of the ocean (10 marks)