TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF APPLIED AND HEALTH SCIENCES

DEPARTMENT OF ENVIROMENT & HEALTH SCIENCES

UNIVERSITY EXAMINATION FOR:

DEGREE IN MARINE RESOURCE

BSMR 16S/YEAR1/SEMESTER 1

AES 4101: INTRODUCTION TO MARINE RESOURCES

END OF SEMESTER EXAMINATION

SERIES:DECEMBER2016

TIME: 2HOURS

DATE: Pick DateSelect MonthPick Year

<u>**Instructions to Candidates**</u>
You should have the following for this examination
-Answer Booklet, examination pass and student ID
This paper consists of **TWO**Section(s). Attemptquestion ONE (Compulsory) and any other TWO questions.
Circle the correct answer in section A.

QUESTION ONE (30 MARKS)

i.	List any 5 tropical coastal ecosystems	(5 marks)
ii.	a) What are coral reefs?	(1 marks)
	b) Differentiate between hermatypic and ahermatypic corals	(4 marks)
iii.	List any 5 characteristics associated with fisheries resources	(5 marks)
iv.	What are some of the impacts that are experienced from mangrove over-harvesting in tropical coastal environments?	(5 marks)

v. Briefly explain with relevant examples where applicable the exploitation of deep sea fisheries resources in terms of:
   a) Advantages (3 marks)
   b) Disadvantages (2 marks)

vi. State the types of senses used for survival in marine mammals   (5 marks)

QUESTION TWO (20 MARKS)

Discuss the distribution and occurrence of corals in the world in reference to any 5 limiting factors (20 marks)

QUESTION THREE (20 MARKS)

Discuss the tropical coastal and marine artisanal fisheries in terms of:

a) their characteristics (15 marks)
b) their importance (5 marks)

QUESTION FOUR (20 MARKS)

Explain any 5 impacts associated with the over-harvesting of mangroves

QUESTION FIVE (20 MARKS)

As a marine ecologist, explain the possible impacts to coastal and marine ecosystems in terms of:

i.	Tourism activities	(4 marks)
ii.	Industrial activities	(4 marks)
iii.	Maritime transportation activities	(4 marks)
iv.	Overfishing	(4 marks)
v.	Destructive fishing	(4 marks)