



# TECHNICAL UNIVERSITY OF MOMBASA

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FACULTY OF APPLIED AND HEALTH SCIENCES

DEPARTMENT OF ENVIRONMENT & HEALTH SCIENCES

**UNIVERSITY EXAMINATION FOR:**

DEGREE IN MARINE RESOURCE

BSMR 15S/YEAR2/SEMESTER 1

**AES 4202: COASTAL AND MARINE FISHERIES**

END OF SEMESTER EXAMINATION

**SERIES: DECEMBER 2016**

**TIME: 2 HOURS**

**DATE:** Pick Date Select Month Pick Year

## **Instructions to Candidates**

You should have the following for this examination

-Answer Booklet, examination pass and student ID

This paper consists of **TWO** Section(s). Attempt question ONE (Compulsory) and any other TWO questions.

**Circle the correct answer in section A.**

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## **QUESTION ONE (30 MARKS)**

- i. a) Define tropical coastal and marine artisanal fishing (2 marks)  
b) State the importance of tropical coastal and marine fishery (3 marks)
- ii. Name 5 areas of the Western Indian Ocean region that are the main commercial shrimp trawling grounds (5 marks)
- iii. Identify the 5 taxa making the composition of coastal and marine capture fisheries landings in Kenya (5 marks)
- iv. a) Which developmental stages of fish are more vulnerable to oil toxicity? (2 marks)  
b) Briefly explain how oil toxicity is harmful to fish in the environment (3 marks)

- v. List any 5 management measures that promote the sustainable exploitation of fisheries resources (5 marks)
- vi. a) List 2 types of destructive or illegal fishing gears associated with coastal and marine fisheries in Kenya (2 marks)
- b) State 3 possible impacts these destructive or illegal fishing gears can cause to fisheries stocks (3 marks)

**QUESTION TWO (20 MARKS)**

Discuss the characteristics of tropical coastal artisanal fisheries citing appropriate examples where possible

**QUESTION THREE (20 MARKS)**

Explain any 5 emerging issues associated with the capture fisheries of the Western Indian Ocean region

**QUESTION FOUR (20 MARKS)**

Explain the main threats likely to affect the Western Indian Ocean's capacity to produce seafood

**QUESTION FIVE (20 MARKS)**

In the Malindi-Ungwana Bay, Kenya, bottom shrimp trawling has been going on for more than 3 decades. Evaluate the likely problems associated with this bottom shrimp trawling in the bay.