



TECHNICAL UNIVERSITY OF MOMBASA

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

SPECIAL / SUPPLEMENTARY EXAMINATION

SERIES: AUGUST 2017

TIME: 2 HOURS

Instructions to Candidates

You should have the following for this examination

-Answer Booklet, examination pass and student ID

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

Do **not write** on the question paper. This paper consists of **2 printed** pages.

QUESTION ONE (30 MARKS)

- i. Define industrial fisheries? **(4 marks)**
- ii. What is affected in a fish when the physiological stress exceeds the tolerance limit? **(4 marks)**
- iii. State the threats facing fisheries resources of the Western Indian Ocean region. **(3 marks)**
- iv. a) List the types of destructive and illegal fishing nets **(2 marks)**
b) State the impacts these fishing nets can cause to fisheries and the environment **(3 marks)**
- v. List the factors with appropriate examples that cause stress of physiological systems in fishes. **(4 marks)**
- vi. State the guidelines for a fisheries management plan as a requirement for implementing the Ecosystem Approach to Fisheries. **(5 marks)**
- vii. List the marine fisheries products and their form for export market. **(5 marks)**

QUESTION TWO (20 MARKS)

Beach seines and monofilament nets belong to the category of illegal and destructive fishing gear. Discuss their impacts to fisheries resources and the environment.

QUESTION THREE (20 MARKS)

Discuss the emerging issues affecting the sustainability and productivity of capture fisheries of the Western Indian Ocean region.

QUESTION FOUR (20 MARKS)

Explain the general impacts of fishing activities on ecosystems and fisheries resources.

QUESTION FIVE (20 MARKS)

Explain the North-South disparity in climate change impacts on global fisheries resources production, composition and distribution.