

# TECHNICAL UNIVERSITY OF MOMBASA

Faculty of Applied & Health Sciences

Department of Environment & Health Sciences

University Examination for the Degree of Bachelor of Science in Marine  
Resource Management

BSMR 13S/YEAR 3/SEMESTER 2

Code: AES 4310: Coastal Forests and Marine Resources

SEMESTER EXAMINATION

SERIES: MAY/2016

TIME: 2HRS

## **Instructions to Candidates**

This paper consists of FIVE questions

Answer question ONE (COMPULSORY) and any other TWO questions

**This paper consists of two printed pages**

## **EXAM**

### **AES 4310: COASTAL FORESTS AND MARINE RESOURCES Paper 2**

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

- a) Define the terms 'endemism' 'succession', 'biodiversity hotspot' and 'eutrophication' (6 marks)
- b) Briefly explain the obstacles that have hindered sustainable management of forests along the East African coast (6 marks)
- c) State the various social and economic importance of forests in Kenya (6 marks)
- d) List the key institutions in the management of forest resources along the Kenyan coast (6 marks)
- e) Define the following terms as used in population ecology:- Population, Population growth curve and Population structure (6 marks)

#### **QUESTION TWO (20 MARKS)**

Discuss the main modifications made by Whitehall (1983) to the Greenway forest classification systems.

#### **QUESTION THREE (20 MARKS)**

Discuss factors that must be taken into consideration when undertaking mangrove forest restoration

#### **QUESTION FOUR (20 MARKS)**

List and explain the management regime of coastal forests in Kenya

#### **QUESTION FIVE (20 MARKS)**

With reference to Kenya, discuss the main challenges and threats to conservation and sustainable management of coastal forests