



MACHAKOS UNIVERSITY

University Examinations for 2018/2019 Academic Year

SCHOOL OF ENVIRONMENT AND NATURAL RESOURCES MANAGEMENT

DEPARTMENT OF ENVIRONMENTAL SCIENCES

SECONDYEAR SPECIAL/SUPPLEMENTARY EXAMINATION FOR

BACHELOR IN ENVIRONMENTAL STUDIES & COMMUNITY DEVELOPMENT

BACHELOR OF ENVIRONMENTAL STUDIES (RESOURCE CONSERVATION)

ENS 246: FOREST RESOURCES MANAGEMENT

DATE: 26/7/2019

TIME: 8.30-10.30 AM

INSTRUCTIONS:

Answer question ONE and any other TWO questions

QUESTION ONE (30 MARKS)

- a) Define the word Forest and Forest Management as given by the Food and Agriculture Organization (FAO) the international agency responsible for Forestry (3 marks)
- b)
 - i Describe the three types of Forests in the world (3 marks)
 - ii. Differentiate between Indigenous and plantation Forests (4 marks)
- c) Describe the relationship between flora and fauna in a typical tropical rain forest (6 marks)
- d) Define the term sustainable yield and explain how we can achieve it in a forest ecosystem (6 marks)
- e) Explain the term community participation and its benefits in forest management (8 marks)

QUESTION TWO (20 MARKS)

Explain the socio-economic value of tree growth and outline seven principles that govern plantation forestry

QUESTION THREE (20 MARKS)

Discuss the importance and uses of forestry to humankind

QUESTION FOUR (20 MARKS)

You have been appointed to restore a degraded forest ecosystem in your County. Describe the steps you will follow in the restoration work

QUESTION FIVE (20 MARKS)

Discuss the key threats to forest development in Kenya and outline the mitigation measures to curb deforestation