



MACHAKOS UNIVERSITY

University Examinations for 2017/2018

SCHOOL OF ENVIRONMENT AND NATURAL RESOURCES MANAGEMENT

DEPARTMENT OF ENVIRONMENTAL STUDIES AND COMMUNITY
DEVELOPMENT

SECOND YEAR FIRST SEMESTER EXAMINATION FOR BACHELOR OF
ENVIRONMENTAL STUDIES (ENVIRONMENTAL RESOURCES CONSERVATION)

ENS 246: FOREST RESOURCES MANAGEMENT

DATE: 13/12/2017

TIME: 11.00-1.00 PM

INSTRUCTIONS:

Answer Question One and Any Other Two questions

1. a) Differentiate between the following terms:
 - i. Forest and forestry (2 marks)
 - ii. A deciduous tree and a geophyte (2 marks)
 - iii. Natural and artificial regeneration (2 marks)
 - b) i. Explain why Tiaga forest is referred as a more recent forest biome (4 marks)
 - ii. Explain TWO types of forests in Kenya (4 marks)
 - c) Describe the floral and faunal composition at the emergent layer of a typical tropical rain forest (5 marks)
 - d) Explain the importance of rigid pappus in some seeds and why a leaf on top of a seed acts like a mountain during seed germination (6 marks)
 - e) Explain the role of community participation in forest management according to the Kenya Forest Policy 2007. (5 marks)
2. You have been employed as a forest manager in charge of Iveti forest in Machakos County, explain how you will ensure that sustained yield is achieved in your station (20 marks)
3. Discuss the importance of forest management plans in forestry (20 marks)

4. Using specific examples, explain the economic and ecological values of Mau forest complex (20 marks)
5. Discuss the key drivers of forest degradation in Kenya and the mitigation measures to curb degradation. (20 marks)