



MACHAKOS UNIVERSITY

University Examinations for 2018/2019 Academic Year

**SCHOOL OF ENVIRONMENT AND NATURAL RESOURCES MANAGEMENT
DEPARTMENT OF ENVIRONMENTAL SCIENCES
SECOND YEAR SUPPLEMENTARY/SPECIAL EXAMINATION FOR
BACHELOR OF ENVIRONMENTAL STUDIES (ENVIRONMENTAL
RESOURCES CONSERVATION)**

ENS 246: FOREST RESOURCES MANAGEMENT

DATE: 26/9/2019

TIME: 8:30 – 10:30 AM

Instructions: Answer Question **ONE** and Any Other **TWO**

SECTION A (30 Marks)

QUESTION ONE

- a) Explain how high tree planting density may affect carbon storage (5 marks)
- b) Using examples, explain five benefits of using exotic tree species in Kenya (5 marks)
- c) Explain five Cultural values forests in Kenya (5 marks)
- d) Illustrate five common elements of forest structure (5 marks)
- e) Explain the role of community participation in forest management according to the Kenya Forest conservation and Management Act 2016 (10 marks)

QUESTION TWO

Discuss the causes of forest degradation in Kenya and the mitigation measures to curb degradation (20 marks)

QUESTION THREE

Define Management plans and discuss the importance of management plans in Forest Management (20 marks)

QUESTION FOUR

Using specific examples, explain the socio cultural, economic and ecological values of Mau Forest in Rift Valley (20 marks)

QUESTION FIVE

(a). Explain five Causes of Forest Degradation in Kenya (10 marks)

(b) Discuss five effects of forest degradation on the environment in Kenya (10 marks)