



MACHAKOS UNIVERSITY

University Examinations for 2018/2019 Academic Year

SCHOOL OF ENVIRONMENT AND NATURAL RESOURCES MANAGEMENT

DEPARTMENT OF ENVIRONMENTAL SCIENCES

THIRD YEAR SPECIAL/SUPPLEMENTARY EXAMINATION FOR
BACHELOR IN ENVIRONMENTAL STUDIES (RESOURCE CONSERVATION)

ERC 309: URBAN FORESTRY

DATE: 26/9/2019

TIME: 11.00-1.00 PM

INSTRUCTIONS:

Answer question ONE and any other TWO questions

Use illustrations where necessary.

QUESTION ONE (30 MARKS)

- a) Discuss the importance of carrying out an inventory of urban forests (5 marks)
- b) Briefly enumerate the negative impacts of an urban forest (5 marks)
- c) Discuss the environment of urban forest in terms of space and soils, explaining the necessity for tree growth enhancement (5 marks)
- d) Outline the historical development of urban forestry (5 marks)
- e) Give an account of threats facing Kenya's urban forests (10 marks)

QUESTION TWO (20 MARKS)

Explain how you would go about tree removal and disposal in Machakos town giving the difficulties involved in the operation

QUESTION THREE (20 MARKS)

Discuss management of urban forests

QUESTION FOUR (20 MARKS)

- a) Enumerate the morphological characteristics of trees and their engineering uses in built environment (10 marks)
- b) Discuss the criteria to be met by urban tree ordinances (10 marks)

QUESTION FIVE (20 MARKS)

Give a detailed account of the environmental services, tangible and social benefits derived from an urban forest