



# **MACHAKOS UNIVERSITY**

**University Examinations For 2021/2022 Academic Year**

**SCHOOL OF ENVIRONMENT AND NATURAL RESOURCES MANAGEMENT**

**DEPARTMENT OF ENVIRONMENTAL SCIENCES**

**THIRD YEAR SECOND SEMESTER EXAMINATION FOR**

**BACHELOR OF ENVIRONMENTAL SCIENCE (RESOURCE CONSERVATION)**

**ERC 309: URBAN FOREST**

**DATE:**

**TIME:**

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**INSTRUCTIONS: Answer question ONE and any other TWO questions**

**QUESTION ONE (COMPULSORY) (30 MARKS)**

- a) What is Urban Forest Strategy? (2 marks)
- b) Explain the benefits of Urban Forests (8 marks)
- c) Briefly discuss the threats to Urban Forests (10 marks)
- d) Discuss the factors that hinder biodiversity increase in Urban Forests in Kenya (10 marks)

**QUESTION TWO (20 MARKS)**

Discuss on the factors that determine the species composition of an urban forest.

**QUESTION THREE (20 MARKS)**

Describe the effects of space and urban soils on tree growth and highlight its mitigating measures.

**QUESTION FOUR (20 MARKS)**

Explain the reasons why pruning and removal of trees and tree parts are the most important management practices in any urban forest.

**QUESTION FIVE (20 MARKS)**

Discuss the contribution of urban forests in generating livelihood to the urban poor.