



MACHAKOS UNIVERSITY

University Examinations for 2020/2021 Academic Year

SCHOOL OF ENVIRONMENT AND NATURAL RESOURCES MANAGEMENT

DEPARTMENT OF ENVIRONMENTAL SCIENCES

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

ERC 309: URBAN FORESTRY

DATE: 26/3/2021

TIME: 2.00-4.00 PM

INSTRUCTIONS;

Answer question ONE and any other TWO questions

QUESTION ONE (30 MARKS)

- a) Discuss the importance of carrying out an inventory of urban forests (5 marks)
- b) Briefly explain the role of urban forestry in urban heat island amelioration (5 marks)
- c) Discuss the environment of urban forest in terms of space and soils (5 marks)
- d) Outline the historical development of urban forestry (5 marks)
- e) Explain the impacts of increased urbanization on urban forest establishment (10 marks)

QUESTION TWO (20 MARKS)

Discuss the necessity for tree growth enhancement in urban areas

QUESTION THREE (20 MARKS)

Discuss challenges of urban forests management and suggest appropriate interventions

QUESTION FOUR (20 MARKS)

Discuss the relevant urban tree ordinances and their significance in urban forest management

QUESTION FIVE (20 MARKS)

Give a detailed account of the environmental benefits and costs associated with establishing an urban forest