



MACHAKOS UNIVERSITY
University Supplementary Examinations for 2021/2022 Academic Year
SCHOOL OF ENVIRONMENT AND NATURAL RESOURCES MANAGEMENT
DEPARTMENT OF ENVIRONMENTAL SCIENCES
THIRD YEAR SUPPLEMENTARY EXAMINATION FOR THE DEGREE OF
BACHELOR IN ENVIRONMENTAL STUDIES (ENVIRONMENTAL RESOURCE
CONSERVATION)

ERC 304: AGROFORESTRY SYSTEMS AND PRACTICES

Date:

Time:

Instructions: Answer question ONE and TWO other questions

QUESTION ONE (30 Marks)

- a) Explain the role of gender and culture in relation to tree growing (6 Marks)
- b) Describe three attributes which define agroforestry systems (6 Marks)
- c) Explain the procedure for evaluating agroforestry systems (6 Marks)
- d) Highlight the environmental benefits of agroforestry systems (6 Marks)
- e) Highlight the criteria for classifying agroforestry systems (6 Marks)

QUESTION TWO (20 Marks)

Discuss the negative tree-crop interactions in agroforestry systems

QUESTION THREE (20 Marks)

Discuss the concept of diagnosis and design (D & D) in evaluating agroforestry systems

QUESTION FOUR (20 Marks)

Discuss the above-ground agroforestry trees and shrubs management techniques

QUESTION FIVE (20 Marks)

Discuss the historical development of agroforestry in Kenya