



MACHAKOS UNIVERSITY

University Examinations for 2018/2019

SCHOOL OF ENVIRONMENT AND NATURAL RESOURCE MANAGEMENT

DEPARTMENT OF ENVIRONMENTAL SCIENCES

SECOND YEAR SUPPLEMENTARY EXAMINATION FOR

BACHELOR OF ENVIRONMENTAL STUDIES (RESOURCE CONSERVATION)

ERC 304: AGROFORESTRY SYSTEM AND PRACTICES

DATE: 25/9/2019

TIME: 2:00 – 4:00 PM

INSTRUCTIONS: Answer Question One and Any Other Two Questions.

QUESTION ONE (COMPULSORY) (30 MARKS)

- a) Discuss the characteristics of agroforestry (8 marks)
- b) Explain four reasons for establishing a Social forestry (8 marks)
- c) Justify the role of Agro-forestry in dry-land management (4 marks)
- d) Explain the role of agro-forestry in restoring degraded urban land (10 marks)

QUESTION TWO (20 MARKS)

Discuss the contributions of agro-forestry in conserving biodiversity resources in Kenya.

QUESTION THREE (20 MARKS)

Assume You have been posted in Makueni County as a Senior Environmental Researcher. Explain the agro-forestry technologies you could recommend to farmers

QUESTION FOUR (20 MARKS)

- a) Highlight the four main steps in diagnosis and design methodology in agro forestry (8 marks)
- b) Explain any four challenges facing small scale agro-forestry farmers in East Africa (12 marks)

QUESTION FIVE (20 MARKS)

Using relevant examples, explain the differences and relationship between agro-forestry system and agro-forestry practice in Kenya