



# MACHAKOS UNIVERSITY

University Examinations for 2019/2020 Academic Year

SCHOOL OF ENVIRONMENT AND NATURAL RESOURCES MANAGEMENT

DEPARTMENT OF ENVIRONMENTAL SCIENCES

THIRD YEAR SPECIAL/SUPPLEMENTARY EXAMINATION FOR

BACHELOR OF ENVIRONMENTAL STUDIES (RESOURCES CONSERVATION)

ERC 304: AGROFORESTRY SYSTEM AND PRACTICES

DATE: 22/1/2021

TIME: 8.30-10.30 AM

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## **INSTRUCTIONS:**

Answer question ONE and any other TWO questions

### **QUESTION ONE (30 MARKS)**

- Explain agro-forestry practice in Kenya (5 marks)
- Explain the key features that differentiates Social forestry from Community forestry (5 marks)
- Discuss the principle benefits and costs of agro-forestry (10 marks)
- With examples identify the qualities of tree species that are of importance for an agroforestry project (10 marks)

### **QUESTION TWO (20 MARKS)**

Discuss the role of agro-forestry in the conservation of Kenya's biodiversity

### **QUESTION THREE (20 MARKS)**

You have been posted in Machakos County as an environmental conservation officer. Explain the agro-forestry technologies you could recommend to the farmers

### **QUESTION FOUR (20 MARKS)**

Discuss the sequence of steps for designing and successful introduction of agro-forestry technologies

**QUESTION FIVE (20 MARKS)**

Discuss the challenges faced by small scale agro-forestry farmers in arid and semi-arid (ASALs) regions of East Africa