



# **MACHAKOS UNIVERSITY**

**University Examinations 2023/2024 Academic Year**

**SCHOOL OF AGRICULTURE, ENVIRONMENT AND HEALTH SCIENCE**

**DEPARTMENT OF ENVIRONMENTAL SCIENCES**

**FIRST YEAR FIRST SEMESTER EXAMINATION FOR**

**BACHELOR OF SCIENCE IN COMMUNITY RESOURCE MANAGEMENT**

**BACHELOR OF ENVIRONMENTAL SCIENCE**

**ESU 111: PRINCIPLES OF ENVIRONMENTAL PLANNING AND MANAGEMENT**

**DATE**

**TIME**

**INSTRUCTIONS:**

**Answer Question ONE and any other TWO questions**

**QUESTION ONE (30 marks)**

- a) Explain the following
- i. Environmental planning (2 marks)
  - ii. Environmental management (2 marks)
  - iii. Natural Resource conservation (2 marks)
  - iv. Natural Resource Utilization (2 marks)
- b) Discuss five major components of the environment (10 marks)
- c) Explain the significance of stakeholder participation in environmental planning and management in Kenya (10 marks)

**QUESTION TWO (20 MARKS)**

Discuss the basic planning procedures that are important in guiding environmental management teams to deliver on their mandates in Kenya

**QUESTION THREE (20 MARKS)**

You have been invited by your local County Government to give a lecture on the importance of environmental planning and management, Discuss

**QUESTION FOUR (20 MARKS)**

Describe the steps in decision making process that are critical for a successful planning process.

### **QUESTION FIVE (20MARKS)**

Explain the principles of environmental planning and management that form the legal basis for environmental governance