



# MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

P.O. Box 972-60200 – Meru-Kenya

Tel: +254(0) 799 529 958, +254(0) 799 529 959, + 254 (0) 712 524 293,

Website: [info@must.ac.ke](mailto:info@must.ac.ke) Email: [info@must.ac.ke](mailto:info@must.ac.ke)

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## University Examinations 2023/2024

FIRST YEAR SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR  
OF ENVIRONMENTAL SCIENCE AND RESOURCE MANAGEMENT

### SEG 3150: FUNDAMENTALS OF NATURAL RESOURCE MANAGEMENT

DATE: APRIL 2024

TIME: 2 HOURS

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INSTRUCTIONS: Answer question *one* and any other *two* questions

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#### QUESTION ONE (30 MARKS)

- a) Define adaptive management (2 marks)
- b) Describe air resources with examples (3 marks)
- c) Explain the concept of sustainable development, in line with agenda 21(5 marks)
- d) Differentiate between renewable resources and non-renewable resources giving examples (5 marks)
- e) Explain water resources management and challenges associated with it (5 marks)
- f) Discuss the general properties and characteristics of natural resources (6 marks)
- g) Highlight the importance of spatial distribution of natural resources (4 marks)

#### QUESTION TWO (20 MARKS)

- a) Discuss key strategies for achieving sustainable development in natural resource management (10 marks)

b) The role of indigenous knowledge in resource conservation (10 marks)

**QUESTION THREE (20 MARKS)**

Discuss the challenges facing the conservation of our forests in Kenya

**QUESTION FOUR (20 MARKS)**

Explain the key characteristics of participatory monitoring and evaluation of natural resource management