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University Examinations 2023/2024

FIRST YEAR SECOND SEMESTER EXAMINATION FOR THE DEGREE OF MASTER OF SCIENCE IN ENVIRONMENTAL SCIENCE

SEG 5151: BIODIVERSITY CONSERVATION

DATE: APRIL 2024

TIME: 3 HOURS

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

QUESTION ONE (30 MARKS)

- Explain the key components of the ecological integrity concept (5 marks)
- Describe the meaning and key components of adaptive management as a restoration strategy of degraded ecosystems (5 marks)
- With specific examples, describe five approaches employed in assessing plant diversity (5 marks)
- Explain how hydropower development can result in biodiversity decline in riverine ecosystems (5 marks)

QUESTION TWO (20 MARKS)

Describe the categories and criteria applied in the classification of endangered species

QUESTION THREE (20 MARKS)

Write an essay on integration of indigenous knowledge for biodiversity conservation in Kenya

QUESTION FOUR (20 MARKS)

Discuss how changes in land use, pollution and invasive species contribute to global biodiversity loss