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University Examinations 2023/2024

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

SEG 5150: CLIMATE SYSTEMS AND CLIMATE CHANGE

DATE: APRIL 2024

TIME: 3 HOURS

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

QUESTION ONE (20 MARKS)

- a) Explain the global energy balance (10 marks)
- b) Discuss the hydrologic cycle (10 marks)

QUESTION TWO (20 MARKS)

Citing specific examples explain climatic forcing's

QUESTION THREE (20 MARKS)

Discuss the causes, impacts and mitigation of climate change

QUESTION FOUR (20 MARKS)

Discuss environmental adaptation concept