



# MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

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## University Examinations 2024/2025

FIRST YEAR FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN STATISTICS, BACHELOR OF SCIENCE IN ACTUARIAL SCIENCE, BACHELOR OF SCIENCE IN MATHEMATICS AND COMPUTER SCIENCE, BACHELOR OF SCIENCE IN MATHEMATICS, BACHELOR OF SCIENCE IN MATHEMATICS AND PHYSICS, BACHELOR OF SCIENCE (BIOLOGICAL AND PHYSICAL SCIENCES), BACHELOR OF SCIENCE IN BIOCHEMISTRY, BACHELOR OF SCIENCE BIOTECHNOLOGY AND BACHELOR OF SCIENCE IN ENVIRONMENTAL SCIENCE AND RESOURCE MANAGEMENT, BACHELOR OF SCIENCE (CHEMISTRY) AND BACHELOR OF SCIENCE (PHYSICS)

### SCU 3102: ENVIRONMENTAL HEALTH STUDIES AND GLOBAL MANAGEMENT

DATE: DECEMBER 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 the terms:
- (i) Environment (3 marks)
  - (ii) Nutrition (3 marks)
  - (iii) Mental health (3 marks)
- b) Match three negative environmental effects with their mitigation measures (3 marks)
- c) Explain why soil erosion is rather unnoticeable in the short term (3 marks)
- d) Describe effects of alcoholism to the community (3 marks)
- e) Outline the effects of malnutrition on health (3 marks)

- f) State any three reasons why screen time has been linked to mental health symptoms in young people (3 marks)
- g) Cite three modes of transmission of HIV (3 marks)
- h) Describe three interventions in the care and management of HIV persons (3 marks)

**QUESTION TWO (20 MARKS)**

Justify the need for inter/multidisciplinary approach of environmental communication

**QUESTION THREE (20 MARKS)**

Show the nexus between human activities and environmental degradation

**QUESTION FOUR (20 MARKS)**

Discuss how socioeconomic factors impact the mental health of individuals and communities

**QUESTION FIVE (20 MARKS)**

Discuss factors fuelling the spread of HIV infection in the Global South and mitigation measures