



COLLEGE OF HEALTH, AGRICULTURE AND NATURAL SCIENCES
NESN100: INTRODUCTION TO THE EARTH'S ENVIRONMENT
END OF FIRST SEMESTER EXAMINATIONS _AUGUST/ DECEMBER 2023

LECTURER: MS. B. BOLO

DATE: November 2023

TIME: 0900hrs - 1200hrs

DURATION: 3 HRS

INSTRUCTIONS

Answer (fully) any ONE question of your choice.

Begin your answer for each question on a new page.

Each full question carries 100 marks.

Credit is given for neat, well-written and lucid work.

QUESTION ONE [100 MARKS]

- (a) Explain how chemical and mechanical weathering turn bedrock into sediment. **(10 marks)**
- (b) Discuss in details two (2) sources of greenhouse gases. **(10 marks)**
- (c) Describe the volcanic hazards to the environment. **(10 marks)**
- (d) Explain in details the tropical waves and conditions associated with the waves **(10 marks)**
- (e) What impacts do human activities have on global climate change (such as burning hydrocarbons, greenhouse effect, and deforestation)? **(20 marks)**
- (f) Describe the sources, effects and potential control measures for the main atmospheric pollutants threatening human health today. **(20 marks)**
- (g) Outline the management objectives you would choose for a management plan for African tropical forests. Give reasons for your choices. **(20 marks)**

QUESTION TWO [100 MARKS]

- (a) Describe the volcanic hazards to the environment. **(10 marks)**
- (b) Discuss in details two (2) sources of greenhouse gases. **(10 marks)**
- (c) Define and explain in details weather and climate. **(10 marks)**
- (d) What is soil? Explain the processes by which weathering of rocks leads to soil formation **(10 marks)**
- (e) Outline the management objectives you would choose for a management plan for African tropical forests. Give reasons for your choices. **(20 marks)**
- (f) Explain in details the physical earth's environmental stress and issues. **(20 marks)**
- (g) Describe the causes of recent climate change, particularly the role of humans in the overall climate balance. **(20 marks)**

QUESTION THREE [100 MARKS]

- a) Explain how chemical and mechanical weathering turn bedrock into sediment. **(10 marks)**
- b) Discuss in details two (2) sources of greenhouse gases. **(10 marks)**
- c) What are the main limitations of Environmental Impact Assessment and what environmental management tool could you use to address these limitations? **(10 marks)**
- d) What is soil? Explain the processes by which weathering of rocks leads to soil formation **(10 marks)**
- e) What are the likely consequences of climate change on forests, deserts, and coastal regions? **(20marks)**
- f) Define environment and discuss three main types of environments; the physical, biological and social. **(20 marks)**
- g) Explain in details the physical earth's environmental stress and issues. **(20 marks)**