

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN ENVIRONMENTAL SCIENCE

ENSC 471: CLIMATE CHANGE AND ENVIRONMENT

STREAMS: BSC ENSC (Y4S1)

TIME: 2

HOURS

DAY/DATE: THURSDAY 23/09/2021

11.30 A.M – 1.30 P.M.

INSTRUCTIONS:

- Answer ALL questions in section A and ANY TWO in section B.
- DO NOT WRITE ANYTHING on the question paper.

SECTION A (30 MARKS) ANSWER ALL QUESTIONS

1. Write short notes on the meaning of the following concepts: Climate, climate variability and climate change. (6 marks)
2. Describe any six elements that are the basis of statistical analysis of climate change. (6 marks)
3. Explain the necessity of understanding studies in climate and climate change. (6 marks)
4. With the aid of a diagram, describe the interconnectedness of the earth's climate and environmental systems. (6 marks)
5. Explain how any two natural processes have controlled climate change trends through geological history. (6 marks)

SECTION B (40 MARKS) ANSWER ANY TWO QUESTIONS

6. Assess the role played by any four anthropogenic factors in causing and controlling contemporary trends in climate change globally. (20 marks)
7. Discuss any five environmental challenges posed by climate change and suggest appropriate adaptation strategies that can be applied to ameliorate their respective impacts.

8. Evaluate the applicability of Kenya's Climate Change action plan in addressing effects of climate change and ensuring sustainable development. (20 marks)
- (20 marks)
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