

CHUKA

UNIVERSITY



UNIVERSITY EXAMINATIONS

**EXAMINATION FOR THE AWARD OF DEGREE OF MASTER OF SCIENCE
IN ENVIRONMENTAL SCIENCE**

ENSC 822: ENERGY AND SUSTAINABLE DEVELOPMENT

STREAMS: ENSC (Y1S1)

TIME: 3 HOURS

DAY/DATE: WEDNESDAY 23/04/2025

2.30 P.M. – 5.30 P.M.

INSTRUCTIONS

- Answer **SECTION A** and any two questions in section **B**
- Do not write anything on the question paper

SECTION A: (20 MARKS)

- Q1. Briefly discuss tall chimney concept in emission. [5 marks]
- Q2. “Termites serves as a model future bio-refinery” briefly discuss [5 marks]
- Q3. Briefly discuss the socio-economic impacts of wind energy [5 marks]
- Q4. Highlight various drawbacks of renewable energy [5 marks]

SECTION B: (40 MARKS)

- Q5. Discuss the roles of energy in sustainable development. [20 marks]
- Q6. Discuss major geopolitical issues that’s impact energy availability and pricing [20 marks]
- Q7. Discuss various renewable energy conversion processes. [20 marks]
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