

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

**THIRD YEAR EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF
SCIENCE IN NATURAL RESOURCE MANAGEMENT**

NARE 322: RENEWABLE AND NON RENEWABLE ENERGY

STREAMS: NARE Y3S1

TIME: 2 HOURS

DAY/DATE: TUESDAY 11/12/2018

8.30 A.M. – 10.30 A.M.

INSTRUCTIONS:

- Answer all questions in section A and any other two questions in section B.
- Do not write anything on the question paper.

SECTION A: (30 MARKS)

1. Explain how energy resources are classified. (6 marks)
2. Explain the methods used in carbon sequestration. (6 marks)
3. Briefly discuss the effects of drought on renewable energy sources? (6 marks)
4. Explain the factors that make an energy source sustainable. (6 marks)
5. Describe the role of government in the energy sector. (6 marks)

SECTION B (40 MARKS)

6. (a) Discuss five factors that prevent renewable energy sources from contributing a greater percentage of primary energy consumption in the Kenyan households. (10 marks)
(b) Discuss the role of energy in the economic development of Kenya. (10 marks)
7. You have been hired as an Energy and Natural Resource Expert by County X which is located in Arid and Semi-Arid Areas to advise them on energy issues. Discuss the viable energy options that you would recommend for adoption by the county. (20 marks)

8. (a) Discuss advantages and disadvantages of hydro energy. (10 marks)
- (b) Discuss the environmental impacts associated with exploitation of Non-Renewable energy. (10 marks)
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