

# UGANDA MARTYRS UNIVERSITY

## NKOZI

### UNIVERSITY EXAMINATIONS

END OF SEMESTER TWO FINAL ASESMENT 2021/2022

Bachelors of Science in Economics & Natural Resource Management

### ENERGY AND SUSTAINABLE DEVELOPMENT

DATE: Tuesday 12 July 2022

TIME: 09:30 – 12:30PM

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**Instructions:**

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1. Answer four (04) questions
  2. **Question ONE is COMPULSORY**
  3. All questions carry equal marks
  4. Do not write anything on the questions paper.
  5. Carefully read through ALL the questions before attempting.
  6. No **names** should be written anywhere on the examination booklet.
  7. Ensure your work is **clear and readable**. Untidy work shall be penalized.
  8. Any type of examination Malpractice will lead to automatic disqualification.
  9. Ensure that your **ID number** is indicated on all pages of the examination answer booklet.
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### Question One (COMPULSORY)

Sustainable development is “development that meets the needs of the current generation without compromising the ability of future generations to meet their own needs” (The Brundtland Report, 1987)

- a) Explain the three pillars of sustainable development? Which one of the three is more important to achieving sustainable development (6 Marks)
- b) Distinguish between weak sustainability and strong sustainability (4 Marks)
- c) What are the sustainability concerns in today’s development? (10 Marks)
- d) Explain any five principle of sustainable development (10 Marks)
- e) Challenges to achieving sustainable development (10 Marks)

### Question Two

- a) SDG 11 is about “Make cities and human settlements inclusive, safe, resilient, and sustainable” Suggest way of how this can be achieved (10 Marks)
- b) Other than SDG choose one SDG and suggest way through which it can be achieved (10 Marks)

### Question Three

- a) What is the role of the environment on Sustainable Development? (10 Marks)
- b) What are the sustainable ways of managing the environment? (10 Marks)

### Question Four

- a) What is climate change? (2 Marks)
- b) Explain the various impact of climate change (10 Marks)
- c) What can be done to Combat Climate Change in the Developing World (8 Marks)

### Question Five

- a) Distinguish between energy security and energy equity (4 Marks)
- b) Problems of current energy systems in relation to sustainability (6 Marks)
- c) Explain any 5 challenges for renewable energy development (10 Marks)

### Question Six

In one of the classes, Joseph a student of Energy and Sustainable Development commented: “waste management is more than dumping waste!”

- a) What is the meaning of the term waste as used in renewable energy? (2 Marks)
- b) He suggested that business and countries should invest in improved urban Solid Waste management. Explain any four of these approaches (8 Marks)
- c) Explain the concept of a circular economy and its principles (10 Marks)

**END**