

UGANDA MARTYRS UNIVERSITY

NKOZI

UNIVERSITY EXAMINATIONS
FACULTY OF BUSINESS ADMINISTRATION
DEPARTMENT OF ECONOMICS

INDUSTRIAL ECOLOGY

ENM 1203

BSC. ECONOMICS AND NATURAL RESOURCES MANAGEMENT

DATE: Monday 12 December 2022

TIME: 09:30AM – 12:30PM

Instructions:

1. Attempt any **FOUR (04)** questions
 2. All questions carry equal marks
 3. Do not write anything on the questions paper.
 4. Carefully read through ALL the questions before attempting.
 5. **Maps, diagrams and illustrations should be used wherever appropriate**
 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 1

- a) Assess the goals of industrial ecology (12 marks)
- b) Examine the fundamentals of industrial ecology (13 marks)

Question 2

- a) Explain the drivers for sustainability as used in industrial ecology (12 marks)
- b) Discuss the relevance of the drivers for sustainability in the studies of industrial ecology (13 marks)

Question 3

Examine the sustainability indicators as applied in industrial ecology (25 marks)

Question 4

Write shorts about any **five** (05) of the following terms;

- | | |
|-----------------------------|---------------------------------|
| a) Sustainability Framework | b) Industrial Ecology Framework |
| c) Industrial Metabolism | d) Life Cycle Assessment (LCA) |
| e) Sustainable Systems | f) Sustainable Mobility |
| g) Systems analysis | h) Energy flows |
- (5 marks each)

Question 5

Discuss the application of systems approach to assimilate industrial systems into natural systems as used in the study of industrial ecology. (25 marks)

Question 6

- a) Define the term food webs as used in Industrial ecology (7 marks)
- b) Discuss the goals of food web analysis as used in industrial ecology (18 marks)

Question 7

To what extent has the Kyoto Protocol's Clean Development Mechanism fulfilled this objective? (25 marks)

END