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End Semester Examination, December 2024
BSc (H) Chemistry with research – 3rd Semester
NATURAL RESOURCES MANAGEMENT AND SUSTAINABILITY (UEV103)

Time: 2.5 hrs.

Max Marks: **50**

Note: *All Questions are compulsory. Marks are indicated against each question.*

PART-A

Q.1

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| (a) What is the impact of human activities on marine resources? | [CO-1] [L-1] 2 |
| (b) Define renewable and non-renewable resources with examples. | [CO-1] [L-1] 2 |
| (c) How was coal formed? | [CO-1] [L-1,2] 2 |
| (d) What is the effect of industrialization on resource depletion? | [CO-1] [L-1,2] 2 |
| (e) Define the surface mining and underground mining. | [CO-1] [L-1,2] 2 |
| (f) What are fossil fuels. | [CO-1] [L-1] 2 |
| (g) What are the main causes of deforestation? | [CO-1] [L-1,2] 2 |

2x5

PART-B

- Q.2 What is the significance of soil as a resource? Discuss soil conservation strategies and their importance in maintaining soil health for agricultural production. [CO-2] [L-3] **10**

OR

Explain the global food problem and the key strategies to increase food production. How did the Green Revolution contribute to addressing world food shortages? [CO-2] [L-3] **10**

- Q.3 Examine the environmental impacts of non-renewable energy sources such as oil, coal, and natural gas. How does the consumption of these energy sources contribute to global warming and climate change? [CO-3] [L-4] **10**

OR

Analyze the environmental impacts of mineral extraction and mining. Discuss the role of individuals in conservation of minerals. [CO-3] [L-4] **10**

- Q.4 Illustrate the basic operating principle of solar cell and solar cooker. [CO-4] [L-5] **10**

OR

Explain the concept of nuclear fission and nuclear fission with reactions. [CO- 4] [L-5] **10**

- Q.5 Discuss the concept of resource degradation. How does human activity contribute to the degradation of land, water, and mineral resources? Suggest ways to mitigate the impact of human activities on these resources. [CO-4] [L-5] **10**

OR

Discuss energy conservation principles (e.g., reducing waste, improving efficiency) and propose an integrated approach to reduce energy consumption across different sectors, including residential, commercial, and industrial sectors. [CO- 4] [L-5] **10**