**ST JOSEPH’S UNIVERSITY, BENGALURU - 27**

Registration Number:

Date & session:

**ENVIRONMENTAL SCIENCE – 4th SEMESTER**

**SEMESTER EXAMINATION: APRIL 2024**

**(Examination conducted in May / June 2024)**

**ES 422 – NATURAL RESOURCES AND MANAGEMENT**

**(For current and supplementary (2021-22 onwards) batch students)**

**Time: 2 Hours Max Marks: 60**

1. **This paper contains ONE printed pages and THREE parts**
2. **Draw diagrams wherever necessary**

**PART – A**

**Answer any SIX of the following 6q X 2m = 12m**

1. What is Jeavon’s paradox?
2. List any two causes of droughts.
3. Mention any two types of soil erosion due to wind.
4. Define and cite an example of a captive plantations.
5. What are sacred groves? Mention their ecological benefits.
6. Differentiate major and minor forest products.
7. Mention any four types of coal.
8. What is quarrying? List any two ecological effects.

**PART – B**

**Write explanatory notes on any FOUR of the following 4q X 7m = 28m**

1. Groundwater depletion and rainwater harvesting
2. Ocean as a resource
3. Types of forest fire and their control
4. Ecotourism and its impacts
5. Biogas: converting waste to energy
6. Solar photovoltaic energy and its implications.

**PART – C**

**Answer ALL the questions 2q X 10m = 20m**

1. Classify natural resources based on origin, renewability and utility. (3+4+3)

**OR**

Discuss the impacts of agriculture on groundwater.

1. Chipko and Appiko movements are of significance in forest conservation – Justify.

**OR**

Discuss the ecological conflicts of mineral extraction.