

U.G. 4th Semester Examination - 2022

ENVIRONMENTAL SCIENCE

[HONOURS]

**Course Code : ENVS-H-CC-L-9
(Natural Resource Management
and Sustainability)**

Full Marks : 40 Time : $2\frac{1}{2}$ Hours

The figures in the right-hand margin indicate marks.

*Candidates are required to give their answers in
their own words as far as practicable.*

1. Answer any **five** of the following: $2 \times 5 = 10$
- a) What is the need of natural resource management?
 - b) Define sustainability.
 - c) What is meant by soil conservation?
 - d) What is strip mining?
 - e) Distinguish between renewable and non-renewable resources.
 - f) What are the aims of the Jawaharlal Nehru National Solar Mission?
 - g) Classify mineral resources.
 - h) What was the main focus of Stockholm Convention?

2. Write short notes on any **two** of the following: $5 \times 2 = 10$
- a) Green Revolution
 - b) Economic dimension of resource management
 - c) Renewable energy status in India
 - d) Geothermal energy and its environmental impacts
3. Answer any **two** of the following: $10 \times 2 = 20$
- a) What are the characteristics of resources? How does radioactive waste affect groundwater? State the methods of treatment and disposal of radioactive wastes. $2+4+4$
 - b) Define sustainable development. Give an account of different approaches for achieving sustainable development. What is sustainability assessment framework? $2+6+2$
 - c) What are the different types of mining? Discuss different surface mining techniques. How does underground mining affect the environment? $3+4+3$
 - d) What is meant by energy efficiency? What is hydropower digitalization? Mention the advantages of hydropower energy. What is the future potential of hydropower in India? $2+2+3+3$