2021

ENVRIONMENTAL SCIENCE [HONOURS]

Paper: VII

Full Marks: 75 Time: 4 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: $2 \times 5 = 10$
 - i) What is meant by environmentalism?
 - ii) Define sustainable development.
 - iii) Define shifting cultivation.
 - iv) Define the term carrying capacity.
 - v) State basic principle of Darcy's law.
 - vi) What is geothermal energy?
 - vii) Write the full form of OTEC and OPEC.
 - viii) What is willigness to pay?

2. Answer any **three** of the following questions:

 $5 \times 3 = 15$

- i) Elucidate the relationship between economics
 and environmental economics.
- ii) Write a short note on Zonal Travel Cost Model.
- iii) What is meant by agro forestry? Discuss briefly regarding the various types of forest resources in India. 1+4
- iv) Provide an overview on non-renewable sources of energy.
- v) What is meant by alternative energy source? State the different types of alternative sources of energy.
- 3. Answer any **five** of the following questions:

 $10 \times 5 = 50$

- i) What is monopoly market? Critically discuss the market equilibrium in the context of environmental economics. 2+8
- Distinguish between resource and wealth.Discuss the impact of over expression of agriculture on environment.

- iii) Define wealth. Classify the major natural resources. 2+8
- iv) What is meant by marginal benefit? Provide an overview on direct and indirect valuation of environment. 2+8
- v) What are the factors responsible for energy crisis in India? Provide an overview on energy use pattern in India. 2+8
- vi) What is biodiesel? Discuss briefly on the present scenario of renewable energy use pattern in India. 2+8
- vii) What is pareto efficiency? Discuss the tragedy of common. Suggest some options to avoid this situation. 2+4+4
- viii) What is Kuznets ratio? Briefly explain the application of Kuznets curve in enviornmental studies. 3+7
