

**A-573**

Total Pages : 3

Roll No. ....

**ENS-508/EVS-508**

**ENVIRONMENTAL ECONOMICS AND  
SUSTAINABLE DEVELOPMENT**

**M.Sc. Environmental Science (MSCES)**

2nd Semester Examination, 2024 (June)

Time : 2:00 Hrs.

Max. Marks : 70

*Note :-* This paper is of Seventy (70) marks divided into Two (02) Sections 'A' and 'B'. Attempt the questions contained in these Sections according to the detailed instructions given therein. *Candidates should limit their answers to the questions on the given answer sheet. No additional (B) answer sheet will be issued.*

**Section-A**

**Long Answer Type Questions**      2×19=38

*Note :-* Section 'A' contains Five (05) Long-answer type questions of Nineteen (19) marks each. Learners are required to answer any *two* (02) questions only.

1. What do you understand by producer surplus ? Explain with proper diagram and an example.

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P.T.O.

2. How does environmental economics contribute to sustainable development ? Explain what role do methods of environment valuation, like stated preference methods or revealed preference methods play in evaluating the economic worth of environmental goods and services.
3. Explain the concept of cost benefit analysis (CBA) in detail and discuss its application in environmental conservation projects.
4. Explain how addressing environmental challenges such as climate change, biodiversity loss and water scarcity is interconnected with achieving other millennium development goals.
5. Evaluate the role of the United Nations Framework Convention on climate change (UNFCCC) in global efforts towards sustainability.

### **Section–B**

#### **Short Answer Type Questions**      4×8=32

**Note** :- Section ‘B’ contains Eight (08) Short-answer type questions of Eight (08) marks each. Learners are required to answer any *four* (04) questions only.

1. Explain the concept of externalities. How can positive externalities lead to market inefficiencies ?
2. Explain the concept of pareto optimality and discuss its relationship to economics welfare.

3. Explain the main sources of water pollution in rivers and oceans. How water pollution affects aquatic life and humans ?
4. Discuss the relationship between deforestation and climate change.
5. Discuss the role of environmental economics in sustainable development.
6. Explain the role of montreal protocol in phasing out the production and consumption of ozone depleting substances.
7. Write short note on any *one* of the following :
  - (a) Sustainable development
  - (b) Ecosystem goods
8. Explain the environmental impact assessment (EIA) process in India.

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