

**2025/FYUG/ODD/SEM/
ECODSC-301T/420**

FYUG Odd Semester Exam., 2025

ECONOMICS

(5th Semester)

Course No. : ECODSC-301T

(Environmental Economics)

Full Marks : 70

Pass Marks : 28

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

UNIT—I

1. Answer any *two* from the following : 2×2=4

- (a) How is environmental economics differed from ecological economics?
- (b) Give two examples of environmental negative externalities.
- (c) State the law of entropy.

(2)

2. Answer any *one* from the following : 10

(a) Discuss the nature of environmental economics. Add a note on 'ecology' and 'economy' interaction. 5+5=10

(b) "In absence of transaction cost, Coasian solution to negative externalities is efficient irrespective of the decision whether initial property right is given to victims or the polluter." Discuss.

UNIT—II

3. Answer any *two* from the following : 2×2=4

(a) Define marginal cost of abatement.

(b) Put forward two justifications to defend the superiority of market-based instruments over common and control strategy to reduce pollution.

(c) Mention two market-based instruments to control environmental negative externalities.

4. Answer any *one* from the following : 10

(a) Discuss how optimal Pigouvian tax rate is determined. Make a comparative analysis of Pigouvian tax and subsidy to check negative externalities. 5+5=10

(b) Briefly discuss economic tools and strategies to control environmental pollution.

UNIT—III

5. Answer any *two* from the following : $2 \times 2 = 4$

- ✓ (a) What do you mean by transboundary pollutants? Give example.
- (b) Point out two economic consequences of climate change.
- ✓ (c) Name two significant International Environmental Summits.

6. Answer any *one* from the following : 10

- (a) Discuss the concept of transboundary pollution. How can the problem of transboundary pollution be solved? Discuss. $5+5=10$
- (b) Write short notes on : $5+5=10$
 - ✓ (i) Environmental Kuznets curve
 - (ii) Features of Kyoto protocol

UNIT—IV

7. Answer any *two* from the following : $2 \times 2 = 4$

- (a) Distinguish between non-use value and use value of environmental resource.
- ✓ (b) Mention two advantages of contingent valuation method.
- ✓ (c) Justify the significance of environmental education to resolve environmental problems.

(4)

8. Answer any *one* from the following : 10

- (a) Briefly discuss the methods for valuing non-marketed environmental resources.
- (b) What do you mean by 'risk assessment' and 'risk management'? Discuss the steps involved in risk assessment and risk management. 2+8=10

UNIT—V

9. Answer any *two* from the following : 2×2=4

- ~~(a)~~ Define sustainable development.
- (b) What is Environmental Performance Index (EPI)?
- (c) Point out two significances of e-governance to achieve Sustainable Development Goals (SDGs).

10. Answer any *one* from the following : 10

- (a) State the 'strong' and 'weak' axioms of sustainability. In this context, briefly discuss the indicators of sustainable development. 2+8=10
- (b) Write notes on the following : 5+5=10
 - (i) Green National Accounts
 - (ii) Pearce-Atkinson Measure (PAM) of sustainability

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