

D 121004

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Name.....

Reg. No.....

**FOURTH SEMESTER M.A. DEGREE (REGULAR/SUPPLEMENTARY)
EXAMINATION, APRIL 2025**

(CBCSS)

Economics

ECO 4E 04—ENVIRONMENTAL ECONOMICS

(2019 Admission onwards)

Time : Three Hours

Maximum : 30 Weightage

Part A*Answer **all** questions.**Each bunch of **five** questions carries a weightage of 1.*

1. The Article “The Tragedy of the Commons” is associated with :
(A) Garret Hardin. (B) Ronald Coase.
(C) Charles Kolsted. (C) A. C. Pigou.
2. Which among the following is a problem that can arise with common property resources ?
(A) Overuse. (B) Underuse.
(C) Pollution. (D) All of the above.
3. Which among the following is a ‘use value’ of the environment ?
(A) The value of a forest for providing timber.
(B) The value of a lake for recreation.
(C) The value of a wetland for flood control.
(D) All of the above.

Turn over

4. Which among the following is NOT a key principle of sustainable development ?
- (A) Intergenerational equity.
 - (B) Intragenerational equity.
 - (C) Economic growth.
 - (D) Environmental protection.
5. What is meant by “Our Common Future” ?
- (A) A novel by a renowned environmentalist.
 - (B) An international treaty on climate change.
 - (C) A report by the Brundtland Commission on sustainable development.
 - (D) A documentary on environmental conservation.
6. Key principles outlined in the Stockholm Declaration were :
- (A) The responsibility to protect the environment for future generations.
 - (B) The separation of human and natural environments.
 - (C) The right to unrestricted resource extraction.
 - (D) The prioritization of economic growth over environmental protection.
7. Marginal external cost is equal to :
- (A) Marginal social cost minus the marginal private cost.
 - (B) Marginal social cost - marginal social benefit.
 - (C) Marginal private cost plus the marginal social cost.
 - (D) Marginal private cost minus marginal social benefit.
8. What is a Pigouvian tax ?
- (A) A tax on luxury goods.
 - (B) A tax imposed on harmful activities to internalize external costs.
 - (C) A tax on income to fund government programs.
 - (D) A tax on exports to protect domestic industries.

9. What is the second-best theory in environmental economics ?
- (A) A theory about market equilibrium.
 - (B) A theory about the best possible solutions to environmental problems.
 - (C) A theory about suboptimal outcomes in the presence of constraints.
 - (D) A theory about the advantages of government intervention.
10. How does the command and control method typically enforce environmental regulations ?
- (A) By offering financial incentives to compliant companies.
 - (B) By providing information and education to the public.
 - (C) By imposing penalties and fines on non-compliant entities.
 - (D) By encouraging voluntary actions without penalties.
11. The hedonic pricing method in environmental economics denotes :
- (A) A method for calculating market equilibrium prices.
 - (B) A technique that focuses on maximizing utility for consumers.
 - (C) A strategy that relies on government subsidies to promote green products.
 - (D) An approach that estimates the value of environmental attributes based on their influence on market prices.
12. How does the Contingent Valuation Method handle non-use values of environmental resources ?
- (A) It ignores non-use values and focuses solely on use values.
 - (B) It relies on market prices to estimate non-use values.
 - (C) It uses stated preferences to estimate both use and non-use values.
 - (D) It only considers non-use values when calculating willingness to pay.
13. What does the term “Agenda 21” refer to in the context of the Rio Conference ?
- (A) A comprehensive plan of action for sustainable development
 - (B) The conference schedule and timetable.
 - (C) A list of participants in the conference.
 - (D) A declaration of global peace and security.

Turn over

14. What is the discount rate used for in cost-benefit analysis ?
- (A) To calculate only the costs of a project.
 - (B) To convert future costs and benefits into present values.
 - (C) To ensure that all environmental benefits are considered.
 - (D) To adjust for inflation without affecting costs and benefits.
15. How does the aversion behaviour approach contribute to decision-making in environmental policy ?
- (A) It offers a comprehensive model for predicting environmental outcomes.
 - (B) It focuses solely on punitive measures to prevent negative environmental outcomes.
 - (C) It provides insights into how individuals value avoiding environmental harm.
 - (D) It advocates for market-based solutions to environmental problems.

(15 × 1/5 = 3 weightage)

Part B (Very Short Answer Questions)

*Answer any **five** questions.*

Each question carries a weightage of 1.

- 16. Polluter pays principle.
- 17. Non-use value of the environment.
- 18. Sink function of the environment.
- 19. Marginal External Cost.
- 20. Pollution subsidies.
- 21. Economic incentives for environment management.
- 22. Environmental federation.
- 23. Weak complementarity.

(5 × 1 = 5 weightage)

Part C (Short Answer Questions)

*Answer any **seven** questions.*

Each question carries a weightage of 2.

24. What is the primary cause of ozone depletion, and how do human activities contribute to this phenomenon ?
25. Explain the role of market failures and externalities in highlighting the need for environmental economics as a framework for policy analysis.
26. How can contingent valuation studies provide insights into the non-use values of the environment ?
27. How does the concept of the “double dividend” relate to Pigouvian taxes, and what are the potential economic benefits that can result from their implementation ?
28. How does legal liability serve as an economic instrument to deter environmentally harmful behaviour by holding individuals, businesses, and industries accountable for their actions ?
29. Explain the basic steps involved in conducting a cost-benefit analysis for an environmental project.
30. How does the operational meaning of sustainability empower organizations to make environmentally responsible decisions ?
31. Explain how economic activities and decisions impact the environment, and vice versa ?
32. What is the command and control method in environmental regulation, and how does it differ from market-based approaches ?
33. What is the hedonic pricing method, and how does it contribute to estimating the economic value of environmental attributes and amenities ?

(7 × 2 = 14 weightage)

Part D (Essay Questions)

*Answer any **two** questions.*

Each question carries a weightage of 4.

34. What are the indirect methods of environmental valuation, and how do they help estimate the economic value of environmental resources and ecosystem services ?

Turn over

35. What is sustainable development, and how does it balance the needs of the present with the well being of future generations ?
36. What is the Coase Theorem, and how does it propose that efficient outcomes can be achieved through negotiation and bargaining among parties with conflicting property rights and externalities ?
37. How might the introduction of tradable pollution permits create economic incentives for industries to reduce pollution levels while fostering efficient resource allocation ?

(2 × 4 = 8 weightage)