

00491

**POST GRADUATE DIPLOMA IN
SUSTAINABILITY SCIENCE (PGDSS)**

Term-End Examination

December, 2018

MSD-014 : ECOLOGICAL ECONOMICS

Time : 3 hours

Maximum Marks : 100

Note : (i) Attempt any ten questions.

(ii) All questions carry equal marks.

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| 1. | (a) | Define ecological economics. | 3 |
| | (b) | What is excludable and rival resources ? | 3 |
| | (c) | Write briefly about ozone shield rupture. | 4 |
| 2. | (a) | Briefly explain about the IPAT identity. | 5 |
| | (b) | Differentiate between biotic and abiotic resources. | 5 |
| 3. | (a) | Briefly explain about the Pareto-optimality allocation in the market. | 4 |
| | (b) | Write short note on factor endowment hypothesis. | 3 |
| | (c) | Write a brief note on women's pro-environmental attitudes. | 3 |
| 4. | (a) | What are the economic compulsions of women for ecological conservation ? | 5 |
| | (b) | What are the scope of applying Travel Cost Method in estimating economic value ? | 5 |

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| 5. | (a) | Briefly explain the laws of thermodynamics. | 5 |
| | (b) | Describe about the carrying capacity of earth for humans. | 5 |
| 6. | (a) | Illustrate the statement : "Environment's ability to process wastes limit economic growth." | 5 |
| | (b) | Classify the resources based on time references. | 5 |
| 7. | (a) | Describe about the man-made capital. | 5 |
| | (b) | Explain how externalities affects the allocation of resources and functioning of the market. | 5 |
| 8. | (a) | Differentiate between contingent valuation method and contingent choice method. | 5 |
| | (b) | Explain about various market based instruments for environment improvement. | 5 |
| 9. | | Describe the conceptual framework and application of an environment-economy model. | 10 |
| 10. | | Explain the environmental Kuznets hypothesis with examples of evidences. | 10 |
| 11. | | Discuss the relationship between the non-renewable resources and the flow of services from them. | 10 |
| 12. | | What do you understand by eco-system services? State the important eco-system services. | 10 |
| 13. | | Define Common Pool Resources (CPR). Describe the factors responsible for degradation of CRR. | 10 |
| 14. | | Describe what constitutes total economic value of eco-system services. | 10 |