

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

Term-End Examination

June, 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) | Describe environment - economy model. | 4 |
| | (b) | Define elasticity of substitution. | 3 |
| | (c) | What is global warming ? | 3 |
| 2. | (a) | Explain the operational principles of sustainable development identified by Herman Daly. | 4 |
| | (b) | Distinguish between renewable and non renewable resources. | 4 |
| | (c) | What is non-rival resources ? | 2 |
| 3. | (a) | Describe Pollution Haven Hypothesis (PHH). | 5 |
| | (b) | Give an account of the effect of climate change on the Indian Himalayan region. | 5 |
| 4. | (a) | State the need of CPR Institutions. | 3 |
| | (b) | What is valuation of eco-system services ? Explain. | 4 |
| | (c) | Briefly describe the Hedonic Pricing Method of estimating economic values. | 3 |

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| 5. | (a) | Give your comments on "Resource Depletion limit growth". | 5 |
| | (b) | What is Resource Curse Hypothesis ? Explain it by giving suitable examples. | 5 |
| 6. | (a) | Explain how exhaustion of non-renewable resources limit the economic growth. | 5 |
| | (b) | Briefly explain the economics of waste generation. | 5 |
| 7. | (a) | Discuss the causal relationship between poverty and environmental degradation in a fragile eco-system. | 5 |
| | (b) | What is Common Pool Resources ? What are their important contributions ? | 5 |
| 8. | (a) | Explain the need and significance of valuing eco-system services. | 5 |
| | (b) | What is Contingent Valuation Method (CVM) ? Describe its advantages and disadvantages in estimating economic value of eco-system and environmental services. | 5 |
| 9. | | Explain the model of sustainable development. | 10 |
| 10. | | Describe the steady-state bio-economic equilibrium with a focus on Fishery. | 10 |
| 11. | | Explain the concept of sustainable extraction. | 10 |
| 12. | | Enumerate the reasons for wet land losses in India. | 10 |
| 13. | | Describe various types and volumes of Solid wastes. | 10 |
| 14. | | Illustrate the benefits of women's participation in natural resource management. | 10 |