

00229

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

Term-End Examination

December, 2016

MSD-014 : ECOLOGICAL ECONOMICS

Time : 3 hours

Maximum Marks : 100

Note : Answer any ten questions. Each question carries equal marks.

1. Explain the evolution of economic thought and its relationship with ecology and economy. 10
2. (a) What are the laws of thermodynamics ?
(b) Discuss the laws of thermodynamics in the context of ecological economics. 4+6=10
3. Write a brief note on the following concepts :
(a) Entropy 5+5=10
(b) Carrying capacity
4. Discuss the characteristics of abiotic and biotic resources through the economic concepts of excludability, rivalness, stock-flow and fund-service. 10
5. Explain the Resource Curse Hypothesis. 10

6. Discuss the limitations of steady-state bio-economic model. 10
 7. (a) What are biotic resources ? 2+8=10
(b) Explain the characteristics of biotic resources with suitable examples.
 8. Give an account on ecosystem services with suitable examples. 10
 9. Write a brief account on man-made capital. 10
 10. Explain the following hypothesis : 5+5=10
(a) Pollution Haven Hypothesis
(b) Factor Endowment Hypothesis
 11. Discuss the concept of ecological footprint and trends in global ecological footprint. 10
 12. Explain the impact of climate change on crop, livestock and fisheries productivity, biomass change, human health and water resources. 2.5+2.5+2.5+2.5=10
 13. Discuss the reasons for wet land losses in India. 10
 14. (a) What are common pool resources ? 2+8=10
(b) Explain the significance of common pool resources in rural areas.
 15. Explain the methods and techniques for valuation of ecosystem services. 10
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