

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

Term-End Examination

June, 2016

MSD-014 : ECOLOGICAL ECONOMICS

Time : 3 hours

Maximum Marks : 100

Note : Answer all questions as per the instructions given in each question.

1. Attempt any ten questions. Answer the following questions in about 100 words each. Each question carries 2 marks. 10x2=20
- (a) Define 'Green Economics'.
 - (b) What is 'value in use' and 'value in exchange' ?
 - (c) State the 'second law of thermodynamics'.
 - (d) Write the basic concept behind 'the tragedy of the commons'.
 - (e) Explain I≡PAT.
 - (f) How economists defined the Renewable and Non-renewable resources ?
 - (g) What is 'Fund-Service resource' ?
 - (h) Differentiate between 'Human Capital' and 'Intellectual Capital'.
 - (i) Define the term Internationalization.
 - (j) What is human energy equivalent ?

- (k) What are the four types of natural resources based on the relationships between resources and its users ?
- (l) Explain the 'Poverty-Environment-Hypothesis'.
- (m) What is the basic objective of ecosystem valuation ?
- (n) What are the three broad policy instruments to control and regulate pollution ?
- (o) What is the basic concept behind 'carbon market' ?

2. Attempt **any eight** questions. Write short notes on the following in about **300** words each. Each question carries **5** marks. **8x5=40**

- (a) Environmental Kuznet hypothesis
- (b) Total Economic value of Ecosystem Services
- (c) Advantages of Hedonic Pricing Method
- (d) Market based instruments
- (e) Carbon offsets
- (f) Net National Product
- (g) Trade and Natural Resource policies link
- (h) Economic theories of non-renewable resources
- (i) Waste absorption capacity as economic characteristics
- (j) Living Planet Index (LPI)
- (k) Urban Solid Waste
- (l) Chipko movement

3. Attempt **any four** questions. Answer the following questions in about **500** words each. Each question carries **10** marks. **4x10=40**
- (a) Write an essay on 'ecological scarcity and the issue of sustainability'.
 - (b) Will the environment's ability to process wastes limit the economic growth ? Comment.
 - (c) Explain how globalization and international trade lead to overexploitation of local resources.
 - (d) Briefly discuss the impact of economic activity on climate change.
 - (e) Write an essay on 'Green accounting and sustainable development'.
 - (f) Briefly explain the concept of Total Economic Values of Ecosystem Services with suitable example in India.
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