

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

**Term-End Examination**

**June, 2015**

00030

**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.  $10 \times 2 = 20$ 
  - (i) What is the concept behind the 'theory of comparative advantage' ? Explain with a suitable example.
  - (ii) What is thermodynamics ? State any two of the three laws of thermodynamics.
  - (iii) Explain the relationship between human capital and natural capital.
  - (iv) Explain  $I = PAT$ .

- (v) Briefly explain the concept 'Excludability'.
- (vi) Differentiate between Globalization and Internationalization.
- (vii) Explain the concept 'human energy equivalent'.
- (viii) Privatization of common property resources in the fragile ecosystem deepens environmental degradation. Elaborate.
- (ix) What is Disability-Adjusted Life Years (DALYs) ? What is India's status in global scenarios ?
- (x) Explain the concept 'Tragedy of Commons' with suitable example.
- (xi) Indigenous women are custodians of local biodiversity. Do you agree ? Justify.
- (xii) Briefly explain the concept 'Option Value'.
- (xiii) What are the three major policy instruments for sustainable management of ecological resources ?
- (xiv) Explain the concept 'Carbon offset' .
- (xv) Define Net Domestic Product and Net National Product.

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

- (i) Kuznets' Hypothesis
- (ii) Bio-economic model
- (iii) Public Goods
- (iv) Pollution Haven Hypothesis
- (v) Ecological Overshoot
- (vi) IS Curve
- (vii) Urban Water Pollution
- (viii) Solid Waste
- (ix) Hedonic Price Method
- (x) Contingent Valuation Method
- (xi) Carbon Trading
- (xii) Green Accounting in India

3. Attempt any **four** questions. Answer the following questions in about 500 words each. Each question carries 10 marks. 4×10=40

- (i) Discuss the links between environment and economy, with suitable examples.
- (ii) Explain the economic theories of non-renewable resources.

- (iii) Write an essay on the impact of economic activity on climate change.
  - (iv) What is eco-feminism ? Briefly discuss.
  - (v) Write an essay on the economic value of ecosystem services by giving a suitable example from India.
  - (vi) Briefly discuss the flexibility provisions of Kyoto Protocol.
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