

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

Term-End Examination

00359 December, 2014

MSD-011 : SUSTAINABILITY SCIENCE

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. *10×2=20*
- (i) What are the five levels of needs in Maslow's 5-stage Hierarchy of Needs ?
 - (ii) Differentiate between pristine and artificial ecosystem.
 - (iii) What do you mean by the term 'Anthropocene' ?
 - (iv) Define the term 'Index of Sustainable Economic Welfare' (ISEW).
 - (v) Briefly explain the concept behind the term 'Feminization of poverty'.
 - (vi) What are the major environmental consequences of Green Revolution in India ?

- (vii) Define the term 'Tipping point'.
- (viii) Define the term 'Evergreen Revolution'.
- (ix) What is conservation continuum ?
- (x) What are the major categories of natural resources which are classified based on the kind and right of stakeholders ?
- (xi) What is 'Landscape' ? Explain with suitable examples.
- (xii) Briefly discuss the concept of 'Sectoral approach of watershed management'.
- (xiii) What are the two different types of co-ordinations ?
- (xiv) Define the term 'lifestyle'.
- (xv) What are the three major types of 'ethics' ?

2. Attempt any **eight** questions. Answer the following questions in about 300 words each.

Each question carries 5 marks.

$8 \times 5 = 40$

Briefly discuss the following terms with suitable examples :

- (i) Causal Chain Analysis
- (ii) The Cost Benefit Analysis
- (iii) Sustainable Development
- (iv) Limits to Growth
- (v) Intra-Generational Equity

- (vi) Global Hunger Index
- (vii) Components of Evergreen Revolution
- (viii) Integrated Natural Resource Management
- (ix) Landscape Ecology
- (x) Interpersonal Communication Tool
- (xi) Gross National Happiness
- (xii) Environmental Education

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

- (i) Write briefly on 'Environmental Ethics'.
- (ii) Briefly discuss the concept of Sustainable Technology with suitable examples.
- (iii) How is the concept of landscape ecology closely linked with Natural Resource Management ?
- (iv) The definition of Sustainable Development by WCED is an 'oxymoron'. Justify the statement.
- (v) "Technology as an ally and enemy of livelihood in India." — Elaborate.
- (vi) Write briefly on Social Contract for Sustainability Science.