

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

Term-End Examination

June, 2015

00382

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. $10 \times 2 = 20$
- (i) “Sustainable Development should address the five basic Hierarchy of Needs proposed by Maslow.” Elaborate the statement.
- (ii) How are the Gandhian agriculture and the concept of ‘Sarvodaya’ related ?
- (iii) What are the major strategies for sustainable social system ?

- (iv) What is 'Pressure-State-Response' model indicator ?
- (v) What are the four major categories of ecosystem services described by Millennium Ecosystem Assessment ?
- (vi) Why does India need production by masses and not mass production ?
- (vii) Define the term 'Peak Oil Point'.
- (viii) Differentiate between Green revolution and Evergreen revolution.
- (ix) What is Protection of Plant Varieties and Farmers' Rights Act, 2001 ?
- (x) What are the two major categories of Natural Resources which are classified on the basis of stage of development ?
- (xi) Define the term 'Watershed'.
- (xii) What is Agenda-21 ?
- (xiii) What are the tools for effective utilization of communication ?
- (xiv) Briefly discuss the lifestyle of 'global consumer class'.
- (xv) Elaborate the concept 'global environmental ethics'.

2. Attempt any **eight** questions. Explain the following terms with suitable examples in about 300 words each. Each question carries 5 marks.

$8 \times 5 = 40$

- (i) Veblen Effect
- (ii) Pseudo Satisfiers
- (iii) Industrial Revolution
- (iv) Ecological Footprint
- (v) Human Development Index (HDI)
- (vi) Jobless Economic Growth
- (vii) Climate Change
- (viii) Community Based Natural Resource Management (CBNRM)
- (ix) Watershed Management
- (x) Participatory Rural Appraisal (PRA)
- (xi) Ecofriendly Lifestyle
- (xii) Environmental Awareness

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 Education.
- (ii) Elaborate the links of changing lifestyle and issues of sustainability in the 21st century.

- (iii) Briefly discuss any three chapters of Agenda-21 which are directly related to Watershed Management issue.
 - (iv) What are the major challenges in achieving Sustainable Development ?
 - (v) What are the three major pillars of sustainability ? Briefly discuss.
 - (vi) “Sustainability Science should have an in-built ‘ethical pull’ to ‘technological push’.” Justify this statement.
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