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

Term-End Examination

December, 2015

**MSD-012 : ECOSYSTEM AND NATURAL
RESOURCES**

Time : 3 hours

Maximum Marks : 100

Note : (i) Attempt *any five* of the following questions.
(ii) All questions carry *equal* marks.

1. (a) Write short notes on **any five** of the followings in about **100** words : **5x2=10**
- (i) Trophic organization
 - (ii) Ecological services provided by biodiversity
 - (iii) Need to conserve biodiversity
 - (iv) Various categories of IUCN Red list species
 - (v) Convention of Biological Diversity
 - (vi) Important National Parks, Sanctuaries and gene banks of India
 - (vii) Role of biodiversity hotspots in biodiversity conservation
- (b) What do you understand by biodiversity ? **10**
Explain different approaches to biodiversity conservation.

2. (a) Discuss various International and National efforts to conserve the biodiversity. **10**
- (b) Explain various levels of studying biodiversity. Discuss how loss of biodiversity may impact achievement of Millenium Development Goals. **5+5=10**
3. (a) What are the major reasons of land degradation ? Describe constraints of Integrated Land Management. **5+5=10**
- (b) Draw a well labelled diagram of soil profile showing different soil horizons and parent material. Discuss various strategies for the management of soil fertility. **5+5=10**
4. (a) Explain water cycle with the help of a well labelled diagram. Discuss the role of vegetation in hydrological cycle. **5+5=10**
- (b) Classify different types of water pollution. Discuss Trans-boundary impact of water pollution. **5+5=10**
5. Write short notes on **any four** of the following in about **300** words : **4x5=20**
- (a) Nuclear energy
- (b) Solar energy
- (c) Wind energy
- (d) Energy from biomass
- (e) Earth wisdom society
- (f) Renewable resources