



17-12-16

**DOON UNIVERSITY, DEHRADUN**  
**Semester Final Examination, I Semester, 2016**  
**School of Environment & Natural Resources**

**M.Sc. (Environmental Studies)**  
**Course: EES – 511: Ecology & Environment**

*Time Allowed: 3 Hours*

*Maximum Marks: 50*

*Note: Attempt All Questions from Sections A,B,C*

**SECTION: A Short Answer Type Questions. Attempt all questions.**

*(Marks 10 x 1= 10)*

1. Define term biodiversity.
2. What is an Ecad ?
3. Will you consider space as an ecosystem.
4. Name the Biosphere Reserve in Uttarakhand.
5. What is Sere.
6. What are hotspots of biodiversity.
7. Flow of energy in the ecosystem is-----.
8. What are the primary producers in the freshwater ecosystem.
9. What is Biosphere 2?
10. What is passamosere.

**SECTION: B Attempt any FIVE questions.**

*(Marks: 5 x 4=20)*

1. Explain thermal stratification in lakes.
2. Discuss the factors affecting dispersal of organism.
3. Write short notes on the following :
  - (a) Nudation
  - (b) Commensalism
4. Differentiate between K- selected species and r-selected species.

5. Explain flow of energy in an ecosystem.

6. Discuss the IUCN categories of threat.

7. Explain the following

(a) Species diversity

(b) Age pyramids

**SECTION: C Attempt any TWO Questions.**

*(Marks: 10 x 2= 20)*

1. What is an Ecological Succession? Describe the causes, trends and basic types of succession.

2. Discuss the Gaseous cycles in an Ecosystem ?

3. What do you mean by Population Growth. Discuss in detail the theories of population growth.