



**DOON UNIVERSITY, DEHRADUN**  
**Mid Semester Examination, September 2014**  
**School of Environment & Natural Resources**  
**M.Sc Environmental Science (NRM): Third Semester**  
**Course: ENR -<sup>SS3</sup> RESTORATION ECOLOGY**

*Time Allowed:-2 Hours*

*Maximum Marks: 30*

**SECTION: A (Short Answer Type Questions to be answered in about 250 words.  
Attempt any Four Questions.**

*(Marks: 4x4=16)*

1. What is Ecological Restoration? Differentiate between Restoration Ecology and Eco-restoration.
2. What are the challenges of the ecological restoration
3. What are the ecological principles of ecosystem recovery after disturbance?
4. What are biofertilizers? Discuss the role of any two biofertilizers in ecosystem recovery.
5. Discuss the mechanism in which microbes contribute in restoring the soil fertility.

**SECTION: B (Long Answer Type Questions to be answered in about 750 words. Attempt any  
TWO Questions.**

*(Marks: 7x2=14)*

1. Discuss the processes of forest degradation and list the consequences of forest degradation.
2. Discuss how micropropagation and mycorrhizae can be exploited in restoration of degraded lands.
3. Discuss the role of leguminous and non-leguminous plants in recovery of degraded ecosystems.