

Roll No. ....

Total Pages : 2

**MDQ/D-23**

**5229**

## **RESTORATION ECOLOGY**

Paper–BOT–304(c)

Time Allowed : 3 Hours]

[Maximum Marks : 80

**Note** : Attempt **five** questions in all, selecting **one** question from each Unit. Question No. **1** is compulsory. All questions carry equal marks.

### **Compulsory Question**

1. Briefly explain the following : 8×2=16
- (a) Passive restoration.
  - (b) Rehabilitation.
  - (c) Heterogeneity.
  - (d) Edge effects.
  - (e) Key- stone species.
  - (f) Ecosystem Engineers.
  - (g) Bioremediation.
  - (h) Waste water recycling.

### **UNIT-I**

2. Discuss in detail different interventions which can be employed in restoration. 16

3. Describe natural and anthropogenic disturbances, and their effects on terrestrial and aquatic ecosystems. 16

### **UNIT-II**

4. Write an essay on “Global change and Human impact on ecological systems”. 16
5. Discuss the following : 8,8
- (a) Rehabilitation of salt affected soils.
  - (b) Prevention and mitigation of invasive species.

### **UNIT-III**

6. (a) Explain various Tools of Restoration. 8  
(b) Write short notes on EIA. 8
7. Write notes on the following : 8,8
- (a) Sustainable forestry management.
  - (b) Ecosystem stability.

### **UNIT-IV**

8. Discuss briefly degradation and restoration of forest and grassland ecosystems. 16
9. Write notes on the following : 8,8
- (a) Adaptive restoration of wetlands.
  - (b) Reclamation of mining sites.