

[This question paper contains 2 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 2034 L

Unique Paper Code : 2182012403

Name of the Paper : Restoration Ecology (DSC-12)

Name of the Course : **B.Sc. Environmental Sciences**

Semester : IV

Duration : 2 Hours Maximum Marks : 60

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Answer any **four** questions.
3. **All** questions carry equal marks.

1. (a) Elaborate upon the concept on restoration ecology, ecosystem services, restoration planning, monitoring, and ecological threshold. (10)
(b) Explain the importance of restoration ecology in environmental management. (5)
2. Differentiate between the following : (5×3=15)
(a) Restoration and rehabilitation

P.T.O.

2034

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- (b) Resistance and resilience
(c) Planning and monitoring in restoration

3. Write short notes on the following : (3^{3/4}×4=15)
(a) History of restoration ecology
(b) Ethics and values in restoration ecology
(c) Restoration ecology and environmental policy
(d) Challenges and limitations of restoration ecology
4. (a) Explain the role of ecological succession, biodiversity and ecological interactions in restoration ecology. (8)
(b) Discuss how habitat fragmentation affects restoration success. (7)
5. (a) Describe ecological site assessment and inventory in restoration planning. (8)
(b) Explain seed collection, propagation and planting techniques used in restoration projects. (7)
6. Discuss the restoration of grasslands, forests, wetlands, agricultural landscapes, urban landscapes, mining sites and industrial sites with suitable ecological approaches. (15)

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