

[This question paper contains 2 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 5668

J

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) What is the relevance of ecological succession in restoration projects? Explain your view using examples from grassland restoration. (8)

(b) Restoring ecosystem services is important for sustainability. Justify with suitable examples from wetland ecosystems. (7)

2. Write short notes on the following : (3½×4=15)

(a) Ecological thresholds and restoration success

(b) Soil and water conservation techniques in restoration

(c) Challenges of restoring mining sites

(d) Integrating restoration ecology with conservation biology

3. Differentiate the following (**any three**) : (5×3=15)

(a) Passive restoration vs. Active restoration

(b) Invasive species control vs. Native species reintroduction

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- (c) Adaptive management vs. Traditional management approaches
 - (d) Biomimicry vs. Ecological engineering
4. (a) Evaluate the role of habitat connectivity considering wildlife migration corridors. (8)
- (b) Discuss the emerging interest in restoration ecology globally for achieving UN Sustainable Development Goals (SDGs). (7)
5. (a) Focusing on urban ecosystems, elaborate upon the techniques used in urban ecological restoration. (8)
- (b) Do you think restoration ecology can fully reverse the impacts of toxicants? Elaborate your answer. (7)
6. Why ecologists have recommended restoring resilience and resistance for future-proofing ecosystems? Explain. (15)