

4. (a) What is REDD+? Discuss its various components and its role in ecosystem Restoration in detail. (7.5)
- (b) Discuss various parameters of soil properties as indicators of land degradation. (7.5)
5. (a) Give a detailed account of Bioremediation and phytoremediation. (10)
- (b) Discuss the role of legume- Rhizobium interaction on ecosystem restoration. (5)
6. (a) Explain the role of green spaces in improvement of air quality? (8)
- (b) Describe UN decade on ecosystem restoration in detail. (7)

(500)

[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 5819

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Unique Paper Code : 2164002007

Name of the Paper : Environmental Monitoring and Ecosystem Restoration

Name of the Course : **Generic Elective : Botany**

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. Attempt **four** questions in all including Question No. 1 which is compulsory.
3. **All** parts of questions must be answered together.
4. **All** Questions carry equal marks.

1. (a) Define the following terms (**any five**) : (1×5=5)

(i) Soil erosion

(ii) Ecosystem

(iii) Eutrophication

(iv) Phytoextraction

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(v) Rhizofiltration

(vi) Sustainability

(vii) Reclamation

(b) Fill in the blanks : (1×5=5)

(i) Unlimited number of resources available in nature is called _____.

(ii) Air in motion is called _____.

(iii) Temporary hardness of water is due to _____ and _____.

(iv) _____ is an instrument used to determine heavy metals concentration.

(v) The total number of sustainable development goals are _____.

(c) Give full form following (any five) : (1×5=5)

(i) REDD+

(ii) JFM

(iii) SDG

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(iv) TDS

(v) AQI

(vi) DO

(vii) pH

2. Differentiate between the following (any five) :
(3×5=15)

(i) Renewable and non-renewable resources

(ii) COD and BOD

(iii) Salinity and hardness

(iv) Temporary and permanent hardness

(v) Rhizobium and Mycorrhiza

(vi) Restoration and Rehabilitation

3. Write short notes on the following (any three) :
(5×3=15)

(i) Desertification

(ii) Bioremediation

(iii) Ecological engineering

(iv) Effects of wind on ecosystem degradation

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