

5707

5. (a) Discuss how green spaces help in improving air quality. 8
(b) Explain Bradshaw's concept of restoration, rehabilitation, and reclamation with suitable examples. 7

[This question paper contains 4 printed pages]

Your Roll No. :

Sl. No. of Q. Paper : **5707** **I**

Unique Paper Code : 2164002007

Name of the Paper : Environmental Monitoring and Ecosystem Restoration

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

Semester : VI

Time : 2 Hours **Maximum Marks : 60**

Instructions for Candidates :

- (a) Write your Roll No. on the top immediately on receipt of this question paper.
 - (b) Attempt any **four** questions in all, **first** question is compulsory.
 - (c) **All** questions carry equal marks.
 - (d) Attempt **all** parts of the questions together.
1. (a) Give full forms of the following (any **five**):
5×1=5
- (i) AMF
 - (ii) FAO

- (iii) UNGA
 - (iv) PM
 - (v) SDG
 - (vi) UNEP
- (b) Define any **five** of the following terms: 5×1=5
- (i) Erratic natural events
 - (ii) Landfills
 - (iii) Biodiversity loss
 - (iv) Soil Health
 - (v) Soil alkalinity
 - (vi) Bioremediation
- (c) Fill in the blanks: (any **five**) 5×1=5
- (i)leads to the removal of topsoil.
 - (ii) Human-induced causes are called factors
 - (iii) There areSustainable Development Goals
 - (iv) is a secondary pollutant formed in the atmosphere.
 - (v) Legumes are associated with.....for nitrogen fixation.
 - (vi) is the process where plants absorb contaminants from soil.

- 2.** Differentiate Between following (any **five**): 5×3=15
- (i) Degradation by 'natural events' and 'anthropogenic causes'
 - (ii) Degradation of Soil and Water
 - (iii) Deforestation and Overgrazing
 - (iv) Rehabilitation and Reclamation
 - (v) Water Quality Indicators and Air Quality Indicators
 - (vi) Phytoextraction and Phytostabilization
- 3.** Write short notes on any **three** of the following: 3×5=15
- (i) Ecosystem degradation
 - (ii) Impact of forest fires on air quality
 - (iii) Objectives of the UN Decade on Ecosystem Restoration
 - (iv) Significance of AQI in environmental monitoring
- 4.** (a) Explain the role of bioindicators in assessing environmental quality. 8
- (b) Discuss the major factors responsible for loss of biodiversity. 7