

Bachelor of Science (B.Sc.) (Part-III) Sixth Semester  
**B.Sc. 4522 - Environmental Science Paper-II**  
**(Environmental Restoration)**

P. Pages : 2

Time : Three Hours



**GUG/W/18/1348**

Max. Marks : 50

- Notes :
1. All questions are compulsory and carry equal marks.
  2. Illustrate the answers with suitable diagrams and examples.

1. State major tools used in restoration. Describe biological methods for restoration. 10

**OR**

Describe phyto volatilization and rhizosphere bioremediation methods to restore environment. 10

2. Explain in detail how restoration of mine affected land w.r.t. coal mine and manganese mine is carried out. 10

**OR**

What is biological diversity? Explain how restoration of wetland can be carried out. 10

- 3.
- a) What are strategies for restoration? 2½
  - b) How selection of plant species for Eco-restoration is carried out? 2½
  - c) Describe the method for groundwater restoration. 2½
  - d) State benefits of restoration to local inhabitants. 2½

**OR**

- e) Discuss the concept of natural healing potential. 2½
- f) What are the components involved in eco-restoration? 2½
- g) How restoration of degraded land is carried out? 2½
- h) Explain acceleration of ecological succession. 2½

- 4.
- a) State the necessity of eco-restoration. 2½
  - b) Discuss the new methods of plantation. 2½
  - c) How flood affecting area can be restored? 2½
  - d) State socioeconomic issues of lake beautification. 2½

**OR**

- e) Explain how indigenous knowledge helps in restoration. 2½
- f) Describe restoration monitoring indicators. 2½
- g) How fertility of soil can be restored? 2½
- h) Discuss the role of IIFM in restoration of natural resources. 2½

**5.** Answer in 2-3 lines **any ten.** **10**

- a) What is restoration ecology?
- b) Write principles of eco restoration.
- c) What is chemical restoration?
- d) Define bioremediation.
- e) How seed collection is carried out?
- f) What is biophysical analysis?
- g) Name the plants absorbing air pollutants.
- h) What are dunes?
- i) What is green belt?
- j) What is environmental education?
- k) What is gene pool?
- l) State reasons for man-animal conflicts.

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