

B.Sc.4522 - Environmental Science Paper-II : Environmental Restoration

P. Pages : 2

Time : Three Hours



GUG/S/19/1348

Max. Marks : 50

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

1. Discuss physical and chemical methods of restoration. **10**

OR

Discuss following methods of Eco-restoration by plants.

- i) Phytoextraction. ii) Phytotransformation.

2. Discuss restoration measures undertaken in manganese and uranium mine affected Lands. **10**

OR

Briefly describe measures adopted for restoration of forest land and range land.

3. a) Explain principles of restoration ecology. **2½x4 =10**
b) Describe restoration monitoring indicators.
c) Explain role of local biodiversity management committee for restoration.
d) Write elaborative note on acceleration of ecological succession.

OR

- e) What are types of restoration?
f) Explain new methods of plantation.
g) Describe various Eco-restoration measures adopted for flood affected areas.
h) Explain socioeconomic issues of lake beautification.

4. a) What are benefits of public participation in restoration? **2½x4 =10**
b) Briefly explain nursery process for plantation.
c) Write explanatory note on restoration of non mineral extracted plains and hills.
d) Explain various reasons of Man-Animal conflict in India.

OR

- e) Describe biological methods of restoration.
- f) Write brief note on rhizosphere bioremediation.
- g) Explain measures undertaken for restoration of surface water.
- h) What are issues about conservation of wild buffaloes in Buser?

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

**2½x4
=10**

- a) Explain holistic approach in restoration.
- b) Mention NGOs in conservation and restoration.
- c) What is conservation biology?
- d) Mention parameters of biophysical analysis.
- e) Define Phyto-Volatilization.
- f) Mention steps in Eco-Restoration.
- g) How damaged dunes are restored?
- h) What is the meaning of carbon sequestration?
- i) Mention names of air pollutants absorbing plants.
- j) Explain gene pool campaign.
- k) What are mangroves?
- l) Mention location of Great Indian Bustard (GIB) in Maharashtra.
