

B.Sc. (Part-III) (with Credits)-Regular-Semester 2012 Sem VI
B.Sc. 4522 - Environmental Science Paper-II (Environmental Restoration)

P. Pages : 2

Time : Three Hours



GUG/S/18/5639

Max. Marks : 50

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

1. Discuss in brief the chemical and biological methods of restoration. **10**

OR

Discuss restoration w.r.t. seed collection and nursery process. Add a note on method of sowing plants.

2. Discuss in brief the restoration of coal and uranium mine affected lands. **10**

OR

Discuss restoration of forest and range land.

3. a) Explain the principles of restoration. **2½x4 =10**
b) Describe biophysical analysis of restoration.
c) How damaged dunes are restored?
d) Write an informative note on restoration of wetland by mangroves.

OR

- e) Discuss long term strategies of restoration.
f) Mention restoration monitoring indicators.
g) Write explanatory note on restoration of soil fertility.
h) What are the issues about conservation of wild buffaloes in Buster?
4. a) What are the benefits of public participation in restoration? **2½x4 =10**
b) Briefly explain rhizosphere bioremediation. Method of Eco restoration.
c) How gold mine affected land is restored?
d) Write socioeconomic issues related with declaration of wildlife sanctuaries.

OR

- e) Explain the role of NGOs in conservation and restoration.

- f) Describe new methods of plantation.
- g) Write a short note on eco restoration of groundwater.
- h) Explain the role of environmental education in conservation and restoration.

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

1x10
=10

- a) Define restoration ecology.
- b) What is the meaning of holistic approach in restoration?
- c) Enlist physical methods of restoration.
- d) What is phytoextraction?
- e) Which plant species are selected for eco restoration?
- f) Define Phyto transformation.
- g) Mention any two methods for restoration of wasteland.
- h) Give list of air pollutant absorbing plants.
- i) Suggest suitable method for restoration of volcano affected areas.
- j) What is the full form of IIFM?
- k) Where one horned rhinoceros is found in India?
- l) What is the aim of gene pool campaign?
