

Bachelor of Science (B.Sc.) (Part-II) Fourth Semester  
**B.Sc. 2492 - Environmental Science Paper-II (Forest & Wildlife)**

P. Pages : 2

Time : Three Hours



**GUG/W/18/1291**

Max. Marks : 50

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

1. How diameter, girth, height and volume of trees are measured? 10

**OR**

Describe methods and techniques for tree improvement.

2. Describe ex-situ and in-situ methods for conservation of wildlife. 10

**OR**

Discuss contribution of NGO in environmental protection.

3. a) State need and scope of forest science. 2½

b) Describe ecological and physiological factors influencing vegetation. 2½

c) What are the threats to wildlife? 2½

d) Explain importance of sustainable resource management. 2½

**OR**

e) Describe the method for forest cover monitoring through remote sensing. 2½

f) Give salient features of forest (Conservation) Act, 1980. 2½

g) Write a note on project Tiger. 2½

h) What is the central idea of self sufficient villages? 2½

4. a) Discuss dams and their effects on forest. 2½

b) Describe advanced methods for silviculture of trees. 2½

c) Briefly discuss categories of threatened species. 2½

d) How scope of livelihood generation under JFM can be enhanced? 2½

**OR**

e) How forest survey is being carried out? 2½

- f) Explain forest as a carbon sink. 2½
- g) Give salient features of Wildlife Protection Act 1972. 2½
- h) Write a note on Joint Forest Management. 2½

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

- a) What is nutrient cycling? 1
- b) Give types of forest fires. 1
- c) What are the causes of deforestation? 1
- d) Give full form of NFP. 1
- e) What is social forestry? 1
- f) What is van Mahotsav? 1
- g) Define wildlife. 1
- h) Give examples of national parks in India. 1
- i) Name any two protected wildlife species. 1
- j) What are eco-villages? 1
- k) Give full form of IUCN. 1
- l) Mention any two non-timber forest produce. 1

\*\*\*\*\*