

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

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| 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.**

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| 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 |
