

M.Sc. - I (Environmental Science) (NEP Pattern) Semester-II
PEENV T06 / PEENV T09 Elective Paper-IX - Forest Ecology Paper-III

P. Pages : 1

Time : Three Hours



GUG/S/25/15378

Max. Marks : 80

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

1. Discuss functional relationship between climate and flora and fauna in forest ecosystem. **16**

OR

a) Describe structure and function of forest vegetation. **8**

b) Explain difference between natural and managed forests. **8**

2. Discuss composition and growth of forest floor vegetation. **16**

OR

a) Explain effects of forest management operations on soil ecosystem. **8**

b) Describe energy exchange between vegetation and atmosphere. **8**

3. Describe impacts of animals on forest structure and function. **16**

OR

a) Explain the function of fungi in forest. **8**

b) Write a note on forests and population ecology. **8**

4. Discuss impacts of forest management on biodiversity and red-listed species. **16**

OR

a) Explain importance of forest fires. **8**

b) Describe role of forest tree species in forest ecosystem. **8**

5. a) What is forest production? **4**

b) Explain concept of forests meteorology. **4**

c) State the function of insects in forest ecosystem. **4**

d) Explain forest structure. **4**
