

CSM : 15

FORESTRY PAPER - I

Time Allowed : 3 hours

Full Marks : 100

Marks for each question is indicated against it.

Attempt any 5 (five) questions taking not more than 3 (three) questions from each Part.

PART A

1. What do you understand by the term 'regeneration'? Write an account on methods of artificial regeneration of forests. What are the advantages of artificial regeneration over natural regeneration? (3+12+5=20)
2. Write in details: (4×5=20)
 - (a) Conversion
 - (b) Choice of species
 - (c) Uniform system
 - (d) Enrichment planting
3. Describe the characteristic features of a mangrove forest. Explain in brief the forest types associated in mangrove formation with their species composition. (10+10=20)
4. Write notes on the following : (4×5=20)
 - (a) Economic importance of *Santalum album*
 - (b) Methods of propagation in *Gmelina arborea*
 - (c) Nursery practices in *Anthocephalus cadamba*
 - (d) Injuries, pests and diseases of *Albizia lebbek*

PART B

5. Write short notes on the following : (4×5=20)
 - (a) NTPFs
 - (b) Multipurpose Trees
 - (c) Joint Forest Management
 - (d) Participation of Mizo community in forestry programme

6. Why is soil and water conservation important for forestry practices? Discuss various biological and engineering approaches to watershed management in North-East India. (5+15=20)
7. Describe the role of trees and forests in environmental conservation with reference to control and prevention of air and water pollution. (10+10=20)
8. Write short notes on the following: (4×5=20)
 - (a) Quantitative and qualitative traits in tree species
 - (b) Seedling seed orchard
 - (c) Economic valuation of tree species
 - (d) Quick viability test of forest seeds

* * * * *