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? 

2. Write in details:
   (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.

4. Write notes on the following:
   (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 *Albizzia lebbeck*

5. Write short notes on the following:
   (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

* * * * * * *