

CSM : 22

**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. Answer the following:
 - (a) What is silviculture? Describe the application of silviculture to different branches of forestry. **(10)**
 - (b) Discuss the factors which influence the choice between natural and artificial regeneration. **(10)**
2. Describe the various methods of thinning followed in regular crops. Explain the significance of mechanical and crown thinning. **(20)**
3. What do you mean by conversion? Explain the need of conversion of one silvicultural system to another. **(20)**
4. Discuss the silvicultural characteristics of *Shorea robusta* and *Tectona grandis*. **(20)**

PART - B

5. What are the tangible and intangible benefits of agroforestry? Describe the agroforestry systems under different agroecological zones. **(20)**
6. (a) Elaborate on the different soil types found in India. **(10)**
(b) Explain the role of forest in conserving soils. **(10)**
7. Discuss the major causes of ozone layer depletion. Elaborate on the ecological impact of ozone layer depletion. Comment on the Montreal protocol. **(20)**
8. What are the seed production areas and seed orchards? Discuss their importance in the Mizoram context. **(20)**

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