

**CSM : 14**

**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 “Silviculture”? What are the ecological and physiological factors influencing vegetation? **(5+15=20)**
  
3. Discuss the following silvicultural system: **(4×5=20)**
  - (a) Coppice
  - (b) Thinning
  - (c) Aerial seeding
  - (d) Shelterwood selection
  
3. What are the characteristics of a cold desert? Explain the importance of Willow cultivation in cold desert ecosystem. **(10+10=20)**
  
4. Describe the silvicultural characteristics and artificial regeneration of the following species: **(4×5=20)**
  - (a) *Tectona grandis*
  - (b) *Shorea robusta*
  - (c) *Emblica officinalis*
  - (d) *Anogeissus latifolia*

**PART B**

5. Define social forestry. Write the objectives, scope and people's participation in social forestry. **(5+15=20)**
6. Explain the following: **(4×5=20)**
- (a) Role of forest in conserving soils
  - (b) Reclamation of saline and alkaline soil
  - (c) VAM
  - (d) Water log
7. Write short notes on the following: **(4×5=20)**
- (a) Green house effect
  - (b) Sustainable development
  - (c) Noise pollution
  - (d) Environmental Impact Assessment (EIA)
8. Write short notes on the following: **(4×5=20)**
- (a) Provenance trial
  - (b) Seed production areas
  - (c) Methods of Plus tree selection
  - (d) Methods of breeding for disease resistance

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