# **CSM : 16**

## FORESTRY

## PAPER - I

Time Allowed: 3 hours

Full Marks : 100

 $(4 \times 5 = 20)$ 

Marks for each question is indicated against it.

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

### PARTA

- 1. (a) What are the main processes involved in natural regeneration by seed? Discuss in brief the factors responsible for the establishment of the seedings. (10)
  - (b) What is thinning? Explain the effects of thinning on physiological and mensurational aspects of tree growth. (10)
- Define the term silvicultural system. Explain the objectives of formulating a silvicultural system for a forest stand. Discuss the salient features of Selection system with its merits and demerits.
  (3+3+4+5+5=20)
- Give a detailed account of establishment and rehabilitation of degraded mangrove formations in India. (10+10=20)
- **4.** Write notes on the following:
  - (a) Method of propagation and economic importance of *Tectona grandis*. (10)
  - (b) Nursery practices and management of *Shorea robusta*. (10)

#### PART B

- **5.** Write short notes on the following:
  - (a) Environmental services of Urban Forestry
  - (b) Status of Joint Forest Management in Mizoram
  - (c) Integration of livestock in agroforestry
  - (d) Role of forests in tribal livelihood
- 6. Discuss in detail how forests help in building up of soil organic matter, soil conservation and ground water recharge. (20)

7. Write short notes on the following:

- (a) Acid rain and its impact on forest vegetation
- (b) Seed orchards and management
- (c) Concept of sustainable development
- (d) Environmental Impact Assessment
- 8. Give a brief account of different methods of *in-situ* and *ex-situ* conservation of forest species. (20)

\* \* \* \* \* \* \*