

**CSM : 24**

**FORESTRY PAPER - I**

Time Allowed : 3 hours

Maximum Marks : 100

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**QUESTION PAPER SPECIFIC INSTRUCTIONS**

*(Please read each of the following instruction carefully before attempting questions)*

There are eight (8) questions - four (4) questions each in Part A & B. Each question carries 20 marks.

Marks for each question is indicated against it.

Compulsory questions :

- (a) Question No. 1 from Part-A and
- (b) Question No. 5 from Part-B

*[Compulsory questions No. 1 & 5 have 4 (four) Sub-questions carrying 5 marks each.]*

Total No. of questions to be attempted :

5 (five) questions.

*[A candidate shall attempt 2 (two) compulsory questions from Part A and B. Out of the remaining 6 (six) questions, 3 (three) are to be attempted taking at least 1 (one) but not more than 2 (two) questions from each Part]*

Word Limit:

- (a) Compulsory questions carrying 5 marks shall have a limit of 150 words.
  - (b) There shall be no word limit for the remaining questions.
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**PART - A**

1. Write notes on the following : **(4×5=20)**
  - (a) Give a brief account of silvicultural requirements and seed propagation methods of teak.
  - (b) Why the locality factors are considered important for any silvicultural operation?
  - (c) Nursery techniques.
  - (d) What is the importance of pruning in a forest plantation? Analyse briefly various reasons of plantation failures.
2. What are the main processes involved in natural regeneration by seed? Discuss various operations which help in obtaining natural regeneration of a forest tree species. **(6+14=20)**
3. Describe different grafting methods used for the forest tree species. **(20)**
4. What are the general silvicultural principles? Briefly describe tending operation in silviculture systems in India. **(5+15=20)**

**PART - B**

5. Answer the following questions : **(4×5=20)**
  - (a) What are the roles of agroforestry in soil and water conservation?
  - (b) What is the significance of symbiotic microbes in soil amelioration and plant nutrition?
  - (c) How agroforestry practice leads to increase in soil fertility?
  - (d) Social forestry and its impact in village economy.
6. Define soil conservation. Briefly describe various types, forms and consequences of soil erosion. How do forests help in conserving soils? **(2+13+5=20)**
7. Discuss the impact of forest degradation on environmental conservation. Explain the impact of various human activities on environmental conservation in India. **(10+10=20)**
8. Discuss the role of trees and forests on environmental conservation. Describe the impact and control measures of greenhouse effect and acid rain on environmental conservation. **(10+10=20)**

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