SILVICULTURE

Time Allowed : 3 hours Full Marks : 100

The figures in the margin indicate full marks for the questions.

Attempt 10 (ten) questions taking 5 (five) questions from each section.

SECTION - A

1. Define Silviculture and its scope. Write in detail the extent and need of forest conservation in India. (4+6=10)

2. What is a forest type? Classify the forest of India into major forest type as per Champion and Seth Classification (1968). (2+8=10)

3. Discuss in detail the major soil forming process. (10)

4. Describe the importance of soil for forest management. (10)

5. What do you mean by Natural Regeneration? Explain the merits and demerits of natural regeneration. (3+7=10)

(Contd. 2)
6. Write notes on: \(2 \times 5 = 10\)
   (a) Thinning
   (b) Artificial regeneration.

7. Write notes on: \(2 \times 5 = 10\)
   (a) Factors affecting soil information.
   (b) Plant Succession.

SECTION - B

8. Write the silvics of *Cedrus deodara* under the following heads: \(2 + 3 + 3 + 2 = 10\)
   (a) Distribution and morphology
   (b) Silviculture characters
   (c) Silvicultural system of management
   (d) Utilization

9. Write the silvics of *Pinus kesiya* under the following heads: \(2 + 3 + 3 + 2 = 10\)
   (a) Distribution and morphology
   (b) Silviculture characters
   (c) Silvicultural system of management
   (d) Utilization

(Contd. 3)
10. What is Clear felling system? Discuss in detail the alternate strip system. (3+7=10)

11. Write notes on: (2×5=10)
   (a) Indian Shelterwood system
   (b) Coppice with standard system

12. Write notes on: (2×5=10)
   (a) Culm selection system in bamboo
   (b) Pollarding

13. Write the silvics of *Toona ciliata* under the following heads: (2+3+3+2=10)
   (a) Distribution
   (b) Silviculture characters
   (c) Methods of regeneration
   (d) Utilization

14. Write the silvics of *Tectona grandis* under the following heads: (2+3=3=2=10)
   (a) Distribution
   (b) Silviculture characters
   (c) Methods of Regeneration
   (d) Utilization

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