

SC(MP)ACFTCE(09MY)

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: **(2×5=10)**
- (a) Thinning
 - (b) Artificial regeneration.
7. Write notes on: **(2×5=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