

CSM—32/24
PART—II/PAPER—VI
FORESTRY
PAPER—I

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Time : 3 Hours

Full Marks : 250

*The question paper contains 18 (Eighteen) questions
in GROUP—A, (12) and GROUP—B, (06) together.*

GROUP—A

Candidates to attempt 10 (ten) questions within word limit of 250.

Each question carries 15 marks.

1. Write the physiognomy, phenology and silvicultural characteristics of *Acacia auriculiformis* and *Casuarina equisetifolia*.
2. How are forests classified on the basis of administration? Write a brief note.
3. What is thinning in forestry? Explain in detail about thinning, types and methods of thinning and the factors affecting thinning.
4. List out the edaphic factors and their effects on forests.
5. What is *in-vitro* culture? What are the roles of *in-vitro* culture in forest regeneration?
6. What are the potential roles of microclimate and soil temperature on forest ecosystems? List out the factors influencing microclimate and soil temperature in forests.

7. Write a detailed note on the three major classifications of forests (based on latitude) with their sub-classifications.
8. Write the criteria followed for delineating forest types in India and Odisha.
9. Define pruning. Write a detailed note on the types of pruning and the classification of pruning based on the agency of removal.
10. Write the silvicultural practices followed in *Acacia nilotica* and *Cassia siamea*.
11. Write a comparative note on natural and artificial regeneration of forest. List out the factors affecting the artificial regeneration of forest.
12. Write a brief note on mangrove forests and list the mangrove species present in India. Why is it called mangroves? Where do we have mangrove forests in India?

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GROUP—B

Candidates to attempt 05 (five) questions within word limit of 300.

Each question carries 20 marks.

13. What is greenhouse effect and GWP? Write in detail about global warming, its causes, effects and control measures.
14. How do you protect the forest from illicit felling and encroachment, grazing and lopping?
15. Write an elaborate note on the coppice system : single coppice system, coppice with standard system, coppice with reserve system.
16. What is succession? What are the types of succession? Elaborate.

17. What is production forestry? Write a detailed note on the components of production forestry, captive plantation and socio-industrial plantation.

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18. What is forest fire? What are the types of forest fire? How do you protect forests from forest fire?

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SPACE FOR ROUGH WORK

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