

1. The establishment and care of forests play a crucial role in increasing the forest cover. Elucidate the scope of silviculture. (5 Marks)
2. Locality factors play a crucial role in vegetation growth and development. Pronounce the effects of biotic factors on vegetation. (5 Marks)
3. The influence of forests on the environment is well-documented. Describe the influence of forests on temperature, rainfall, relative humidity and wind. (5 Marks)
4. Forests can be established naturally. Enlighten the factors affecting natural regeneration of the forests. (5 Marks)
5. Kerala has both even aged and uneven aged forests. Elucidate even aged and uneven aged forests with suitable example. (5 Marks)
6. Explain simple coppice system with suitable example. (5 Marks)
7. The selection of appropriate species for successful plantation establishment is important. Elucidate the factors affecting choice of species in establishment of forest plantation. (5 Marks)
8. Write quality planting material in forest nursery and its relevance in tree cover of the nation. (5 Marks)
9. Vegetative propagation techniques fulfill the need of large-scale production of seedlings of forest trees, justify the statement. (5 Marks)
10. Write silvicultural characters of timber yielding tree species and its importance in timber production. (5 Marks)
11. Criteria for fast growing tree species and its importance in timber marketing species like Ailanthus, Casuarina and Melia dubia. (5 Marks)

12. Write origin and general description and regeneration techniques of *Tectona grandis* and *Dalbergia sissoo*. (5 Marks)
13. Write in detail about Industrial Agroforestry and industrial linkages in the recent years. (5 Marks)
14. Write limitations and land capability classification. (5 Marks)
15. Agroforestry enhances socio-economic and ecological aspects of the nation, justify the statement. (5 Marks)
16. Explain the causes and management of forest fires in the present context. List some initiatives from government to control forest fire. (5 Marks)
17. List some invasive weed species found in Indian forests and how do they affect forest ecosystems. (5 Marks)
18. Briefly explain forest nursery diseases and their management. (5 Marks)
19. Briefly explain pests in nursery and their management. List some pests of *Tectona grandis*, *Shorea robusta*. (5 Marks)
20. Define site quality and briefly explain methods to estimate site quality. (5 Marks)
21. Enumerate briefly about different kinds of sampling methods used in forest inventory. (5 Marks)
22. Define volume table and write its classification. (5 Marks)
23. What is forest rotation? Describe the different types of rotation. (5 Marks)
24. How does the Joint Forest Management (JFM) program contribute to the conservation and protection of forest ecosystems? (5 Marks)

25. Write short note on relationship between Current Annual Increment (CAI) and Mean Annual Increment (MAI) with graphical representation. (5 Marks)
26. What is wood preservation? How are the wood preservatives classified? Give an example of each type. (5 Marks)
27. What are the objectives of wood seasoning? (5 Marks)
28. What are the various mechanical properties of wood? (5 Marks)
29. What are the advantages of Kiln Seasoning? What are the different types of Kilns used? (5 Marks)
30. What are seed orchards? How are they made and managed? Compare merits and demerits of SSO vs CSO. (5 Marks)
31. What is exotic forestry? What are the pros and cons of exotic forestry? (5 Marks)
32. What is a mating design in tree breeding? Describe one example of incomplete and complete pedigree design. (5 Marks)
33. List out atleast five Non-Timber Forest Products (NTFPs) obtained from Indian forests with suitable examples and their end use. (5 Marks)
34. What are gums? List out their uses along with important gums of India with their respective source trees. (5 Marks)
35. Enumerate and explain the major wildlife values and justify their importance in wildlife management and conservation strategies. (5 Marks)
36. Explain pellet count and pugmark methods used in wildlife census. (5 Marks)

37. Discuss the role of zoological parks in wildlife conservation and education. (5 Marks)
38. Write brief account on the following :
- (a) National Forest Policies of India
 - (b) Applications of Indian Penal Code in forestry
 - (c) Salient features of Biological Diversity Act. (5 Marks)
39. What are the legal provisions indicated in the Indian Forest Act, 1927 for the following :
- (a) Seizure and Confiscation
 - (b) Penal Provisions
 - (c) Powers of Forest Officers. (5 Marks)
40. How have the amendments to the Forest (Conservation) Act strengthened forest conservation in India? (5 Marks)
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