

<b>CSM – 31/20</b>
<b>Forestry</b>
<b>Paper – II</b>

*Time : 3 hours*

*Full Marks : 300*

*The figures in the right-hand margin indicate marks.*

*Candidates should attempt Q. No. 1 from  
Section – A and Q. No. 5 from Section – B  
which are compulsory and any three of  
the remaining questions, selecting  
at least one from each Section.*

### **SECTION – A**

1. Answer any **three** of the following :    20×3 = 60
  - (a) Write down the characteristics of MPTs suitable for agroforestry system.
  - (b) What do you know about Taungya system ?
  - (c) Explain the Odisha Forest (Grazing of Cattle) Rules, 1980.

- (d) Write notes on ICFRE and National Wasteful Development Board.
2. (a) Write on major characteristics of agroecological regions of India. 20
- (b) Discuss the various tools used in forestry extension for fire management. 20
- (c) Write down the basic objectives and aim of National Forest Policy, 1988. 20
3. (a) Discuss the impact of forest fire as a fire management tool. 20
- (b) Write in detail on hedgerow intercropping. 20
- (c) Explain the constitution and duties of Wildlife Advisory Board under Wildlife (Protection) Act, 1972. 20
4. (a) Discuss the impact of deforestation on forest health. 20
- (b) Explain the benefits of social forestry. 20
- (c) Write on salient features and drawbacks of Indian Forest Policy 1894. 20

## SECTION – B

5. Answer any three of the following :  $20 \times 3 = 60$

- (a) What is defect ? Explain natural defects of wood.
- (b) Explain the mechanical properties of wood.
- (c) Write on processing and grading of beedi leaves. How the production of beedi leaves can be increased ?
- (d) Discuss various rules which govern breast height measurements. Justify your answer with suitable diagrams.

6. (a) Why NTFPs could not be exploited to the extent possible by the forest managers ? 20

- (b) Explain commonly used methods of vegetative propagation for tree improvement.

20

- (c) What is form factor ? Write, in detail, on types and uses of form factors. 20

7. (a) What is composite wood ? Discuss the process of manufacturing plywood. 20

- (b) Write short notes on following : 20
- (i) Progeny testing
  - (ii) Solar kiln
- (c) Write, in detail, on Christen's hypsometer, its principle, methods of graduation, advantages and disadvantages. 20
8. (a) Discuss different methods of resin tapping along with their advantages and disadvantages. 20
- (b) Discuss various trigonometric principles used to determine the height of trees. 20
- (c) Write down the properties and uses of tannins. Discuss various tannins and their sources. 20

