

CSM – 31/18
Forestry
Paper – II

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 three of the remaining questions, selecting at least one from each Section.

SECTION – A

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1. Attempt any **three** from the following :
 - (a) Give brief account on choice of species for an agroforestry system. 20
 - (b) How biotic factors are responsible for deforestation ? Discuss. 20
 - (c) Why wild life conservation ? Comment. 20
 - (d) Explain Odisha Forest Act, 1972. 20

2. (a) How different landuse patterns have influenced the forest cover in Odisha ? Explain. **Techofworld.in** 20
- (b) What is the role of non-wood forest products in agroforestry ? Give detailed comments on different components. 20
- (c) How will you estimate the demand and supply of any forest product ? 20
3. (a) What is the role of different tribes in conservation of forest wealth ? Explain. 20
- (b) Describe Odisha timber and forest produce transit rules, 1980. 20
- (c) Summarise food, fodder and fuelwood security under extension forestry. 20
4. (a) Compare Indian Forest Policies of 1952 and 1988. 20
- (b) Give brief account of common game animals and birds. Give references from Odisha. 20
- (c) Explain different agroforestry systems under different agroecological zones. 20

SECTION – B

5. Attempt any three from the following :
- (a) How will you proceed for volume determination of a stand ? Explain in detail.
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 - (b) Compare anatomical features of softwoods and hardwoods. Support with suitable diagrams. 20
 - (c) What are tans and dyes ? List the important tan and dye yielding species. 20
 - (d) What are seed orchards ? Explain the different kinds of forest seed orchards. 20
6. (a) Discuss the different sampling methods used for forest enumeration. 20
- (b) What is polyploidy ? Discuss it in relation to tree crops. 20
 - (c) Describe the natural defects in timber. 20
7. (a) Why scientific logging is important ? Explain general rules for felling of trees in a forest. 20

(b) What is the role of yield tables in forestry ?

Explain.

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(c) Enlist different methods of forest surveying.

Explain plane table method in detail. 20

8. (a) Enlist different physical and mechanical properties of wood and the factors influencing wood strength. 20

(b) What is the importance of maps in forestry ?

Explain.

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(c) Compare composite and improved woods.

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