

CSM – 31 / 15
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

1. Answer any **three** of the following : $20 \times 3 = 60$
 - (a) Write the Orissa Forest (Grazing of Cattle) Grazing Rules (1980).
 - (b) What is Global Tiger Forum (GTF) ? Describe the purpose of Global Tiger Forum. Highlight the achievements of Simlipal Tiger Research Project.
 - (c) Describe the status of Joint Forest Management (JFM) in India.

- (d) Discuss the statement "Social Forestry is an aid to environmental conservation".
2. (a) Discuss the important agro-forestry systems/ practices existing in different agro-climatic zones of the country with suitable examples. 20
- (b) Why the prescribed fire is recommended for effective forest resource management in many forests ? 20
- (c) Describe the basic objectives and salient features of National Forest Policy, 1988 and highlight the changes in current policy over 1952 policy. 20
3. (a) Mining leads to environmental problems. Discuss briefly the different environmental hazards that are created by mining along with corrective measures. 20
- (b) What are the multipurpose trees ? How different benefits are derived from such trees ? Write the characteristics and management practices of multipurpose trees suitable for agro-forestry. 20

- (c) What do you mean by the term market structure ? Explain briefly the components of market structure which determine the conduct and performance of the market. 20
4. (a) How National Park differs from a Sanctuary ? Why there is a need to establish more National Parks and Sanctuaries ? Give a brief description two National Parks and two Sanctuaries located in your state. 20
- (b) Write the present status of wildlife management in India with special reference to Odisha. 20
- (c) Describe the constitution, objectives and activities of National Wasteland Development Board. Also mention the different categories of wastelands occurring in India. 20

Section – B

5. Answer any **three** of the following $20 \times 3 = 60$
- (a) Define Non-wood forest products. Give brief notes on major essential oil yielding plants.
- (b) Write a short note on distribution and uses of common species of caves found in India.

- (c) Explain, with examples, the classification and categories of Gums and Resins.
- (d) Explain, in brief, different types of defects of wood.
6. (a) Critically discuss importance of genetic resources conservation and preservation of Biodiversity. 30
- (b) Write a short note on the role of Polyploidy and Mutation breeding in tree improvement. 30
7. (a) Explain standard rules governing breast height measurement. Also enlist instruments used for measurement of height and diameter/girth. 20
- (b) Define yield table and write the procedure of its preparation. 20
- (c) Explain Horizontal Point Sampling and enlist the instruments used in this process. 20
8. (a) Define plane-table survey and explain its advantages and disadvantages. 30
- (b) Define maps and their types. Explain contour representation of various types of slopes. 30

