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H.P.A.S. (Main)—2011

FORESTRY

Paper I

Time : 3 Hours

Maximum Marks : 150

Note :— Attempt *Five* questions in all. Question No. 1 is compulsory. Answer any *four* questions from the rest. *All* questions carry equal marks.

1. Differentiate between the following : 30
- (a) Selection system and Uniform system
 - (b) Mechanical thinning and Ordinary thinning
 - (c) Current annual increment and Mean annual increment
 - (d) Crown width and Crown length
 - (e) Pioneer species and Climax species
 - (f) Genotypic variation and Phenotypic variation

P.T.O.

2. Write short notes on any *five* of the following : 30

(a) Place of Social Forestry in the National Forest

Policy

(b) Use of remote sensing

(c) Chipko movement

(d) Role of biotechnology in forestry

(e) Soil texture

(f) Taungya

(g) Selection thinning

(h) Improvement felling.

3. What are the main features of Himalayan moist

temperate forests ? Discuss the main features of various

forest types found in this group.

4. Discuss briefly the distribution, phenology and silvicultural characters of the following tree species :

(a) *Pinus roxburghii*

(b) *Dalbergia sissoo*. 30

5. What are the factors to be kept in view while establishing a good forest nursery ? Describe a schedule of operation to raise a good nursery. 30

6. What is plant succession ? Describe the causes which are responsible for plant succession. 30

7. Describe the various methods used for measurement of girth of trees. 30

8. (a) What are the basic issues that govern the National Forest Policy, 1988 ? Discuss. 15
- (b) What are the different soil types found in India ? Discuss in brief. 15