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HPAS (Main)—2012

FORESTRY

Paper I

Time : 3 Hours

Maximum Marks : 150

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

1. Differentiate between the following : 30
  - (a) Candidate plus trees and Elite trees
  - (b) Seeding felling and Secondary felling
  - (c) Thinning and Pruning
  - (d) Canopy density and Stand density
  - (e) Nurse crop and Cover crop
  - (f) Yield table and Volume table
  
2. Write short notes on the following : 30
  - (a) Soil texture
  - (b) Seed orchard

P.T.O.

- (c) Binomial system of nomenclature
  - (d) Role of forests in watershed management
  - (e) Salient features of National Forest Policy, 1952
  - (f) Utilization products derived from Social Forestry.
3. What are the advantages of raising nursery ? Discuss the layout and essential features of forest nursery. 30
4. Why natural regeneration of banj oak (*Quercus leucotrichophora*) is poor ? Describe the silvicultural characteristics and methods of its successful regeneration. 30
5. How does high forest system differ from coppice system ? Discuss the various factors which affect the choice of silvicultural systems by giving suitable examples. 30
6. What are the standard rules which govern D.B.H. measurement in a sample plot ? Discuss with suitable illustrations. 30

7. Describe the various causes responsible for primary and secondary plant succession. Also discuss the different stages of riverain succession. 30

*Or*

What are the problems of forest soils ? Discuss the management practices to improve the fertility of forest soils. 30

8. Give the features of "Forest Conservation Act, 1980". How far the act has been effective in achieving its main objectives, particularly in Himachal Pradesh ? 30