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**HPAS (Main)—2012**

**FORESTRY**

**Paper II**

*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) Cross cut saw and Ripping saw
  - (b) Tension wood and Compression wood
  - (c) Alkaline process of pulping and Acidic process of pulping
  - (d) Fibre board and Particle board
  - (e) Retaining wall and Breast wall
  - (f) Wood burning and Wood distillation
  
2. Write short notes on any *three* of the following : 30
  - (a) Modern methods of forest fire control
  - (b) Timber slides

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- (c) Zoo management
  - (d) Diseases of forest nursery and its control
  - (e) Epoxy resin adhesive
3. (a) Explain the importance and various methods of directional felling with the help of suitable diagram(s). 15
- (b) Differentiate between a saw mill and a workshop. Also classify saw mills based on various criteria. 15
4. Describe the various methods of resin tapping with their advantages and disadvantages. 30
5. What are the different accessories of plane-table ? How are these accessories used in plane-table surveying and how location of an object is determined ? 30
6. Write a note on various agencies involved in forestry extension activities in our country, stating clearly their objectives, methods and target groups. 30

7. Give the summary of Wildlife Protection Act, 1972. How far the act has been effective in protecting the wildlife in Himachal Pradesh ? 30
8. (a) What is the principle behind the separation of katha from catch ? Describe in brief the manufacturing process of catch and katha. 15
- (b) Write a note on marketing of forest products and its role in national economy. 15