

CSM : 16

FORESTRY

PAPER - II

Time Allowed : 3 hours

Full Marks : 100

Marks for each question is indicated against it.

Attempt any 5 (five) questions taking not more than 3 (three) questions from each Part.

PART - A

1. What do you mean by yield regulation? Describe how yield can be regulated in a regular forest with clear felling system. What are the advantages and disadvantages of area based yield regulation? (3+7+5+5=20)
2. What do you mean by a Forest Working Plan? Explain the role of forest working plan on development of forest based industries and on biodiversity conservation. (20)
3. Write notes on the following: (10+10=20)
 - (a) Role of Remote Sensing and GIS in forest resource management.
 - (b) Methods of measurements of tree height on a hilly terrain.
4. Write short notes on the following: (4×5=20)
 - (a) Practical use of chain and compass survey in forestry.
 - (b) Importance of maps and map reading in forestry.
 - (c) Types of mortar and its function in building construction.
 - (d) Principles of designing roads in remote forest areas.

PART - B

5. (a) Define an ecological succession. Explain how succession proceeds in degraded jhumlands. (10)
(b) What do you mean by the term ethnobotany? List out the common ethnomedicinal and aromatic plants of Mizoram and their uses. (10)
6. Write notes on the following: (2×10=20)
 - (a) Collection, processing and disposal of lac and shellac
 - (b) Process of manufacturing bamboo matply

7. (a) Explain in brief the important pests and diseases of a forest nursery and their control measures. **(10)**
- (b) Write short notes on the following: **(2×5=10)**
- (i) Biophysical and socioeconomic impact of shifting cultivation.
 - (ii) Rotational and controlled grazing.
8. Write an essay on the history of forest development emphasising how various Forest Policies have influenced forest conservation in India. **(20)**

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