FORESTRY

PAPER-I


Silvicultural systems—clear felling uniform, shelterwood, selection and coppice. Choice of silvicultural system.

Binomial nomenclature, systems of classification. Growth habitats and silvicultural characters, phenology and regeneration method of Cedrus deodara, pinus roxburghil, picea, smithiana, Abies pindrow, quercous spp. Shore a, Rubusta, Crewia optiva Celtis australis, Dalberuias issoo, Tectona, Grandis, Acacia, catechu, Bauhinia varivegala and Bamboo spp.

Social Forestry—Objectives, scope and necessity, place of social forestry in the National forest policy. Species for social forestry. Utilisation of products derived from social forestry plantations. Social forestry in Himachal Pradesh. Van Mahotsva and Chipko movement.

Classification of forest, soils, their physical and chemical properties. Soil erosion—process and factors responsible. Soil conservation methods. Watershed management and water harvesting structure. Role of forests in watershed management. Soil survey and land capability classes. Problems of forest soil and their improvement.


PAPER-II


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Insect, pests and diseases responsible for damaging forest nurseries. Problems of weeds in forest nursery and plantation. Weed control. Forest fire- its harmful and beneficial effects. Fire control methods. Fire fighting devices and extinguishing chemicals. Modern methods of forest fire control.

Forestry extension education in community development. Organisational set up of forestry development. Publicity of forestry works and its role in the implementation of forestry projects.

Cost benefit analysis of forest operations. Socio-economic analysis of forest productivity, Relationship between tribals and forests. Determination of optimal rotation of forests crops. Marketing of forest products and its role in economy. Market analysis of forest produce.
