

Gujarat University, Ahmedabad

Elective paper: Forestry

Unit-I: Forest types and management

Types, role and necessity, Agroforestry, Plantation Forestry, Social Forestry, Joint Forest Management , Modern Nursery Technology

Unit-II: Silviculture

General Principles, Systems, Natural and Artificial regeneration of Forest, Tree Physiology and Breeding, Silviculture for Mangroves and Shoreline Vegetation, Traditional and recent advances

Unit-III: Ecology of Soils and Hydrology

Forest Soils, Soil conservation, Watershed management, Reclamation of degraded problem areas and integrated technology for eroded soils.

Unit-IV: Conservation and utility

Environmental forestry and conservation, Forest Ecology and Ethnobotany, Forest Resources and Utilization, Forest Protection and Wildlife Biology, Forest Economics and Legislation

Suggested Readings:

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