

MB-10
OPTION (D). FOREST BIOLOGY
FOREST VEGETATION OF INDIA AND MANAGEMENT
OF FOREST RESOURCES

Max. Marks - 80

Units	Topics
I	Forest and National Development. Forest composition, Forest produce. Forests in our national policy, Forest influences; Forest and climate, Forest & soil conditions, Forest & floods; Forest & erosion, Forest & Man, Ethnobotany in relation to Forest.
II	Locality factors of the forests: Climate: temperature, forest clouds, monsoon in India. light and wind. Edaphic and Biotic factors, Forest fire and control, Distribution of epiphytes and the factors controlling them. Roots system of trees.
III	Floral types of India, Classifications of forest, Classification of forests of M.P. Forest vegetation on Pachmarhi and Baster area, Locality factors of the forest, Functional processes with in forest. a) Energy and organic matter dynamics. b) Minerals and nutrient turn over. c) Diversity and theories of Diversity.
IV	Natural and artificial regeneration of Forest. Afforestation and impact of afforestation on global climate, Greenhouse effect, Afforestation on special sites applied forestry, Social forestry, Farm Forestry, Waste land reclamation theory, Forest growth and forest resource management, Forest in National economy.
V	Environmental Laws, UNEP, IUCN, ICRAF. Ecology of Sal and Teak. Wild life Management: Silviculture approach and the management of Forest, Principles of forest protection - protection against fire, Grazing and human interferences, Important fire wood and timber yielding plants, Important non-wood forest products (NWFPs) such as bamboos, rattans, raw materials for paper makings, gums, tannins, dyes, Resins and fruits.