MB-08 PLANT RESOURCE UTILIZATION AND CONSERVATION

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nce species nel stands. Prod.	Plant biodiversity: Concept, status in India, utilization and concerns. Sustainable development: Basic concepts.
	Origins of agriculture. World centres of primary diversity of domesticated plants: The Indo Burmese centre; plant introductions and secondary centres.
ll anone	Origin, evolution, botany, cultivation and uses of (i) Food, forage and fodder crops; (ii) fibre crops, (iii) medicinal and aromatic plants, and (iv) vegetable oil-yielding crops.
	Important fire - wood and timber-yielding plants and non-wood forest products (NWFPs) such as bamboos, rattans, raw materials for paper making, gums, tannins dyes, resins and fruits.
belo so smit	Green revolution: Benefits and adverse consequences.
	Innovations for meeting world food demands.
	Plant used as avenue trees for shade, pollution control and aesthetics. Principles of conservation; extinctions; environmental status of plants based on International Union for Conservation of Nature.
IV	Strategies for conservation - in situ conservation: International efforts and Indian initiatives; protected areas in India - sanctuaries, national parks, biosphere reserves, wetlands, mangroves and coral reefs for conservation of wild biodiversity.
٧	Strategies for conservation - ex situ conservation: Principles and practices; botanical gardens, field gene banks, seed banks, in vitro repositories, cryobanks; general account of the activities of Botanical Survey of India (BSI), National Bureau of Plant Genetic Resources (NBPGR), Indian Council of Agricultural Research (ICAR), Council of Scientific & Industrial Research (CSIR), and the Department of Biotechnology (DBT) for conservation, nonformal conservation efforts.