

MAJOR BASED ELECTIVE I – MEDICAL BOTANY

Unit I

Importance and Relevance of Herbal drugs in Indian system of Medicine, Pharmacognosy – Aim and scope: Branches of Pharmacognosy – Phytochemicals – Reserve materials: Secretory materials: Excretory materials

Unit II

Medicinal gardening – Gardens in the Hills and plains: House gardens, plants for gardening – Poisonous plants – Types of plant poison: action of poisons: treatments for poisons; some poisonous plants; their toxicity and action

Unit III

Adulteration of crude drugs and its detection – methods of adulteration; types of adulteration. Medicinal plants of export values; Rejuvenating herbs; Medicinal uses of Non-flowering plants

Unit IV

Botanical description and active principles of Root drugs, Rhizomes woods and bark drugs (Two examples for each plant organs).

Unit V

Botanical description and active principles of leaves; Flowers, Fruits seed and entire plants ad drugs. Taxonomic study of some selected herbals (Two examples for each plant organs)

Books for Study:

1. Somasundaram S. 1997, Medicinal Botany (Maruthuvath Thavaraviyal) – (Tamil Medium Book)
2. Wallis, T.E. 1967, Text Books of Pharmacognosy
3. Jain S.K. Medicinal Plants
4. Srivastave A.K. 2006, Medicinal Plants, International Book distributors, Dehradun

Books for Reference:

1. Agarwal, O.P. 1985, Vol. II Chemistry of Organic – Natural products
2. Gamble, J. S. and Fisher, 1921, CEC I, II, III Flora of the Presidency of Madras Volumes
3. Mathew K.M., 1988, Flora of the Tamilnadu and Carnatic
4. nair N.c. and Henry a.M., 1983, Flora of Tamil Nadu, India Botanical Survey of India
5. Chopra r.N. Nagar S.L. and Chopra I.c., 1956, Glosary of Indian Medicinal Plants
6. Chopra R.N., Chopra I.C., Handa K.L. and Kapur L.D., 1994 Indigenous drugs of India
7. Chopra R.N. Badhuvar R.L. & Gosh G. 1965, Poisonous plants of India