

## **Paper -II (104102) : Morphology, Taxonomy and Anatomy**

### **Morphology**

Typical Plant

Types of Inflorescence (Racemose, Cymose and Special Types)

Floral Morphology

Symmetry of Flower, Parts of Flower, Modifications of Calyx and Corolla, Aestivation, Placentation

Floral Formula

### **Angiosperms**

Systems of Classifications: Artificial, Natural and Phylogenetic,

Binomial Nomenclature

Bentham and Hooker's System of classification up to orders[family] with respect to the following prescribed families:

*Annonaceae, Cruciferae, Malvaceae, Leguminosae* (All the Three Sub-Families),  
*Asteraceae, Solanaceae, Acanthaceae, Euphorbiaceae, Liliaceae.*

### **Anatomy**

Introduction of various Tissue Systems in Plants.

Epidermal Tissue System- Epidermal Outgrowth, Stomata(Typical Dicot and Monocot Stomata);

Study of the Primary Structure of Dicotyledonous and Monocotyledonous Stem, Root and Leaf.