

## **Proposed Practical Syllabus Botany for B.Sc. Part II**

**Maximum Marks – 50**

The details of various exercises and marks distribution covering entire syllabus will be as follows

Description of flower of important plants available in the localities belonging to following families- **05 Marks**

### **Dicots.**

Ranunculaceae

Malvaceae

Brassicaceae

Cucurbitaceae

Rosaceae

Fabaceae

Rutaceae

Apiaceae

Apocynaceae

Solanaceae

Convolvulaceae

Acanthaceae

Lamiaceae

Asteraceae

Rubiaceae

Euphorbiaceae

### **Monocots.**

Poaceae,

Liliaceae.

**Anatomical study of abnormal characters of following materials:**

**05 Marks**

*Cucurbita* stem

*Nycanthes* stem

*Achranthes* stem

*Boerhaavia* stem

*Bougainvillea* stem

*Mirabilis* stem

*Leptadenia* stem

*Bignonia* stem

*Salvadora* stem

*Dracena* stem

**Cytology:**

**03 Marks**

Cell division Mitosis & Meiosis Experiments

**Genetics:**

**03 Marks**

Problems based on Mendel's law

**Plant Breeding:**

**03 Marks**

Emasculation experiments on selected flowers of locality

**Plant Physiology:**

**05 Marks**

Experiments on

1. Water Relation

2. Photosynthesis

3. Respiration

**Biochemistry:** **03 Marks**

1. Test for protein
2. Test for reducing sugar
3. Test for phosphorus
4. Test for casein

Comments upon spots 1-8 **08 Marks**

Viva-voce **05 Marks**

Collection /Chart **05 Marks**

Practical Record **05 Marks**