

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**