

# Proposed Practical Syllabus Botany for B.Sc. Part I

Maximum Marks – 50

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

**Fungi:** **04 Marks**

## **Mastigomycotina:**

*Albugo*- V.S. of Infected Leaf for conidial stage

*Pythium*- V.S. of Infected Leaf for asexual stage

*Phytophthora*- V.S. of Infected Leaf for asexual stage

## **Ascomycotina:**

*Aspergillus*; Study of asexual stage of the material

*Morchella*; T.S. gills

## **Basidiomycotina :**

*Ustilago* – Study of spores,

*Puccinia*- Study of Uredo and Teleuto stage,

*Agaricus*-T.S. of gill.

## **Deuteromycotina:**

*Alternaria*- T.S. of infected leaf for asexual stage.

**Algae:** **04 Marks**

## **Cyanophyta:**

*Microcystis*- Study of external morphology

*Oscillatoria*- Study of external morphology.

**Chlorophyta:**

*Volvox*, - Study of external morphology

*Hydrodictyon*- Study of external morphology

*Oedogonium*- Study of external morphology

*Coleochaete*- Study of external morphology

*Chara*- Study of external morphology

**Bacillariophyta:**

*Navicula*- Study of external morphology.

**Xanthopyta:**

*Vaucheria*- Study of external morphology

**Phaeophyta:**

*Ectocarpus*- Study of external morphology

*Sargassum*- Study of external morphology

**Rhodophyta:**

*Polysiphonia*- Study of external morphology

**Bryophytes:**

**04 Marks**

**Bryopsida:**

*Sphagnum*-Study of external morphology and T.S. of axis

**Anthocerotopsida:**

*Anthoceros*- Study of external morphology and V.T.S. of Thallus

**Hepaticopsida :**

*Riccia*- Study of external morphology and V.T.S. of Thallus

*Marchantia*- Study of external morphology and V.T.S. of Thallus through gemma cup.

**Pteridophytes:**

**06 Marks**

**Lycopsidea:**

*Lycopodium*-T.S. of stem, L.S. of cone

*Selaginella*- T.S. of stem, L.S. of cone

**Filicopsida:**

*Pteridium*-V.T.S of microsporophyll

*Marsilea*-T.S. of rhizome and petiole

**Gymnosperms:**

**06 Marks**

**Cycadales:**

*Cycas*-T.S.Coralloid root,

T.S. of Rachis

T.S. of Leaflet

**Coniferales:**

*Pinus*-T.S. of Needle

**Gnetales:**

*Ephedra*-T.S. of Stem

Comments upon spots 1-8

**08 Marks**

Viva-voce

**06 Marks**

Collection /Chart

**06 Marks**

Practical Record

**06 Marks**