

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