

## **Proposed Practical Syllabus of Botany for B.Sc. Part III**

**Maximum Marks – 75**

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

**Plant Resources:** **06 Marks**

Comments on given plant specimen/Plant products

**Palynology:** **05 Marks**

(i) Pollen germination by hanging drop experiments

(ii) Pollen viability test

**Biostatistics:** **06 Marks**

Numerical problems on

Mean

Median

Mode

M.D.

S.D.

Chi square

**Molecular Biology** **07 Marks**

Test of the activity of enzyme amylase from germinating seeds/colour test of given sample

**Biotechnology**

**07 Marks**

Comments upon tools/instruments used in the study of molecular biology/  
biotechnology.

**Ecology:**

**07 Marks**

**Ecological adaptations on following plants:**

*Capparis* stem

*Calotropis* stem

*Asparagus* stem

*Nerium* leaf

*Casuarina* stem

*Vanda* root

*Ficus* aerial root

*Hydrilla* stem, etc.

**OR**

Calculation of density, relative density, frequency and abundance of  
vegetation by quadrat method with the help of provided data.

**Environmental Pollution:**

**04Marks**

Study of polluted water

**Plant Pathology:**

**07 Marks**

Mosaic diseases on tobacco

Yellow vein mosaic of bhindi;

Citrus canker,

Little leaf of brinjal;

Damping off of seedlings

Late blight of potato,

Red rot of sugarcane,

White rust of crucifers,

Wheat rust

Linseed rust.

**Comments upon spots 1-8**

**08 Marks**

**Viva-voce**

**06 Marks**

**Collection /Chart**

**06 Marks**

**Practical Record**

**06 Marks**