

## **PRACTICAL SYLLABUS FOR II YEAR BOTANY (w.e.f.2013-14)**

### **PART – I (To be performed by students)**

1. Study of Osmosis by Potato Osmoscope.
2. Study of Plasmolysis in epidermal peels.
3. Comparative study of the rates of transpiration in the upper and lower surfaces of leaves. (by  $\text{COCl}_2$  method)
4. Separation of plant pigments through paper chromatography.
5. Study of plant population density and frequency by quadrant method.
6. Preparation of temporary mount of monocot and dicot root and monocot and dicot stem.

### **PART – II (To be Demonstrated by Teacher)**

7. Study of distribution of Stomata in the upper and lower surfaces of leaf.
8. Study of aerobic respiration
9. Study of imbibition in seeds.
10. Observe and comment on the following:
  - A. Anaerobic respiration.
  - B. Phototropism.
  - C. Apical bud removal
  - D. Suction due to transpiration pull.
11. Exercise on controlled pollination - Emasculation, tagging and bagging (Activity).

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