

ALLIED BOTNY PRACTICLALS

I. Study of the following genera through slides and specimen

1. Chlamydomonas, Dictyota, Spirulina, Saccharomyces, Agaricus, Red rot of Sugarcane.
2. Funaria, Lycopodium, Cycas
3. Simple and Complex tissues.
4. Hydrophyte, Xerophyte, Halophyte

II. Identification and technical description of the plants belonging to families Annonaceae, Cucurbitaceae, Apocynaceae, Euphorbiaceae and Poaceae.

III. Sectioning of the following materials

Lycopodium stem, Cycas leaf let
Young Dicot Stem, monocot stem,
Dicot stem with normal secondary thickening

IV Experiments to demonstrate

1. Potato Osmoscope
2. Ganong's potometer
3. Transpiration Pull
4. Evolution of oxygen during photosynthesis
5. Ganong's light screen experiment
6. Mohl's Experiment

V. Study of the following with the specimen or chart

1. Cutting
2. Simple Layering
3. Grafting – approach
4. Ginger, vasaka, curcuma
5. Vinca, Aloe

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Time: 3Hrs

Max.Marks:30

1. Refer Specimen A to the respective families giving reasons 1x2=2 Marks
2. Describe the specimen B in technical terms. Draw floral diagrams 1x3=3 Marks
3. Comment on C with its medicinal value 1x2=2 Marks
4. Cut transverse section of D and E. Identify giving reasons.
Draw diagrams. 2x3=6 Marks
5. Identify f, G, H, I and J giving reasons. 5x2=10 Marks
6. Comment on the set up K. Draw sketches 1x2=2 Marks

25 Marks

Record 5 Marks

Total 30 Marks

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KEY

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| 1. A Taxonomy (Identification – 1, Reasons -1) | 1x2=2 Marks |
| 2. B – Taxonomy (Identification -1, Sketch & F, D – 1, Notes -1) | 1x3=3 Marks |
| 3. C – Medicinal Botany (Identification -1, Medicinal Value -1) | 1x2=2 Marks |
| 4. D –Pteridophytes / Gymnosperms | |
| E – Anatomy(Identification & Sketch-1, Notes-1 Slide-1) | 2x2=4 Marks |
| 5. F – Alage | |
| G – Fungi | |
| H– Pteridophytes / Gymnosperms | |
| I – Horticulture | |
| J – Ecology (Identification & Sketch -1, Notes -1) | 5x2=10 Marks |
| 6. K – Physiology (Identification & Sketch -1, Notes -1) | 1x2=2 Marks |

25 Marks

Record 5 Marks

Total 30 Marks
