

**12th standard Bio-Botany Practical notes**

2022-23

Name: \_\_\_\_\_

Reg.No: \_\_\_\_\_

Subject: \_\_\_\_\_

Class: \_\_\_\_\_ Section: \_\_\_\_\_

Date: \_\_\_\_\_ Batch: \_\_\_\_\_

Session: \_\_\_\_\_ Time: \_\_\_\_\_

IDENTIFICATION		
Q.No.	Ex.No.	Content
I		Preparation and Demonstration of Slides
	A1	T.S. of Mature Anther
II		Fresh or preserved specimens/Models/Photographs/Charts
	B7	Pyramid of Biomass
III		Solving the Problems
	C5	Chromosomal Aberration - Deletion
IV		Experiments
	B2	Study of pH of different types of soil
V		Economic Importance of Plants
	E4	Henna Powder

Q.No.	Ex.No.	Content
I A		Preparation and Demonstration of Slides
	1. A1	T.S. of Anther Diagnostic Features
	2. A2	T.S. of an Angiosperm ovule
	3. A3	T.S. of Nervous Tissue
II B		Fresh or preserved specimens/Models/Photographs/Charts
	4. B1	Wind Pollinated Flowers - Anemophily
	5. B2	Insect Pollinated Flowers - Entomophily
	6. B3	Dicot seed
	7. B4	Leafy cloning vector (pBR 322)
	8. B5	Plant Tissue Culture - Callus with plantlets
	9. B6	Pyramid of Number
	10. B7	Pyramid of Biomass
	11. B8	Pyramid of Energy
III C		Solving the Problems
	12. C1	To verify the Mendel's Monohybrid Cross
	13. C2	Analysis of seed sample to study Mendelian Dihybrid Cross
	14. C3	Flow of energy and Ten percent law
	15. C4	Determination of Population density and Percentage frequency by Quadrat method
	16. C5	Chromosomal Aberration - Deletion
	17. C6	Chromosomal Aberration - Duplication
	18. C7	Chromosomal Aberration - Inversion
	19. C8	Genetic - linkage map
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	22. D3	Isolation of DNA from plant materials
V E		Economic Importance of Plants
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	25. E3	Polished Rice or Aval
	26. E4	Henna Powder
	27. E5	Alum Gull

# Standard 12 Botany Practical Manual

**Hugo Stumm, sir Charles Edward  
Howard Vincent**



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