

**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
IV D		Experiments
	20. D1	Study of Pollen germination on a slide
	21. D2	Study of pH of different types of soil
	22. D3	Isolation of DNA from plant materials
V E		Economic Importance of Plants
	23. E1	Sesame or Gingelly oil
	24. E2	Rubber
	25. E3	Polished Rice or Aval
	26. E4	Henna Powder
	27. E5	Alum Gull

# Standard 12 Botany Practical Manual

**SA Dillow**



## Standard 12 Botany Practical Manual:

M.Sc. BOTANY PRACTICAL BOOK (NEP 2020) (SEM 1, SEM 2, SEM 3 and SEM 4) Dr. Shikha Saxena, Dr. Adarsh Pandey, Akanksha Kaithwar, Dr. Shubhra Shukla, Dr. Amit Vaish, Dr. Somnath Kar, Dr. Mumtaz Husain, Dr. Keshav Shukla, 2024-11-10 The M Sc Botany Practical Book aligned with the NEP 2020 offers a hands on approach to botanical studies across four semesters Starting with plant morphology life cycles and structures it covers essential lab techniques like microscopy and centrifugation It then delves into cellular biology and biochemical analyses including DNA isolation and secondary growth Ecological and reproductive botany are explored through ecosystems soil characteristics reproductive structures and photosynthetic pigment analysis Advanced molecular biology techniques such as spectrophotometry and chromatography are introduced with essential lab skills reinforced throughout The book is crafted by seasoned botanists and educators this book combines foundational concepts with advanced experimental techniques providing a comprehensive and engaging learning experience It equips M Sc Botany students with the expertise needed to address future challenges and contribute to sustainable development *Publishers' Circular and General Record of British and Foreign Literature, and Booksellers' Record*, 1897 *The Publishers' Trade List Annual*, 1877 **First Book of Chemistry** Mary Shaw Brewster, 1887 **Publishers' circular and booksellers' record**, 1893 **The English Catalogue of Books** Sampson Low, 1898 Volumes for 1898 1968 include a directory of publishers **The English Catalogue of Books: v. [1]. 1835-1863** Sampson Low, James Douglas Stewart, 1914 **The Bookseller**, 1914 The English Catalogue of Books, 1914 The Gardeners' Chronicle and Agricultural Gazette, 1852 **Catalogue of the Library of the Arnold Arboretum of Harvard University: Serial publications - Authors and titles** Arnold Arboretum. Library, 1914 The Hop; Its Culture and Cure, Marketing and Manufacture Herbert Myrick, 1899 U.S. Environmental Protection Agency Library System Book Catalog Holdings as of July 1973 United States. Environmental Protection Agency. Library Systems Branch, 1974 **American Agriculturist**, 1896 **Gardeners' Chronicle**, 1852 **The Lancet London**, 1848 *The Lancet*, 1863 **The Publishers' Circular and Booksellers' Record of British and Foreign Literature**, 1893 **The English Catalogue of Books [annual]**, 1892 Vols for 1898 1968 include a directory of publishers *The Massachusetts Teacher and Journal of Home and School Education*, 1857

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