

### 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 Human
III		Solving the Problems
	C5	Chromosomal Aberration - Deletion
IV		Experiments
	B2	Study of pH of different types of soil
V		Economic Importance of Plants
	B4	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
	B2	Insect Pollinated Flowers - Entomophily
	B3	Dicot seed
	B4	Leaf cloning vector (pBR 322)
	B5	Plant Tissue Culture - Callus with plantlets
	B6	Pyramid of Number
	B7	Pyramid of Biomass
	B8	Pyramid of Energy
III C		Solving the Problems
	9. C1	To verify the Mendel's Monohybrid Cross
	10. C2	Analysis of seed sample to study Mendelian Dihybrid Cross
	11. C3	Flow of energy and Ten percent law
	12. C4	Determination of Population density and Percentage frequency by Quadrat method
	13. C5	Chromosomal Aberration - Deletion
	C6	Chromosomal Aberration - Duplication
	C7	Chromosomal Aberration - Inversion
	14. C8	Genetic - linkage map
IV D		Experiments
	15. D1	Study of Pollen germination on a slide
	16. D2	Study of pH of different types of soil
	17. D3	Isolation of DNA from plant materials
V E		Economic Importance of Plants
	18. E1	Seeds of Unguiculy oil
	E2	Rubber
	E3	Flaked Rice or Arai
	E4	Henna Powder
	E5	Alar Gel

# Standard 12 Botany Practical Manual

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Ranyard, Wilfred Mark Webb**

## Standard 12 Botany Practical Manual:

Publishers' Circular and General Record of British and Foreign Literature, and Booksellers' Record ,1897     *The Publishers' Trade List Annual* ,1877     **U.S. Environmental Protection Agency Library System Book Catalog Holdings as of July 1973** United States. Environmental Protection Agency. Library Systems Branch,1974     **First Book of Chemistry** Mary Shaw Brewster,1887     *Report* New Zealand. Department of Education,1899     **Appendix to the Journal of the House of the Representatives** New Zealand. Legislature. House of Representatives,1913     *The Bookseller* ,1883 Official organ of the book trade of the United Kingdom     **The English Catalogue of Books [annual]** ,1891 Vols 1898 include a directory of publishers     The United States Catalog ,1925     **Knowledge...** Edwin Sharpe Grew,Baden Fletcher Smyth Baden-Powell,Arthur Cowper Ranyard,Wilfred Mark Webb,1912     **The Athenaeum** ,1906     The Cumulative Book Index ,1914     Publishers' circular and booksellers' record ,1881     **The English Catalogue of Books** ,1894     **The Bookseller, Newsdealer and Stationer** ,1899     **The Publishers' Circular and General Record of British and Foreign Literature** ,1889     *Publishers' Circular and Booksellers' Record of British and Foreign Literature* ,1893     **The English Catalogue of Books** Sampson Low,1898 Volumes for 1898 1968 include a directory of publishers     Appendix to the Journals of the House of Representatives of New Zealand New Zealand. Parliament. House of Representatives,1913     House documents ,1887

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## **Table of Contents Standard 12 Botany Practical Manual**

1. Understanding the eBook Standard 12 Botany Practical Manual
  - The Rise of Digital Reading Standard 12 Botany Practical Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Standard 12 Botany Practical Manual
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Standard 12 Botany Practical Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Standard 12 Botany Practical Manual
  - Personalized Recommendations
  - Standard 12 Botany Practical Manual User Reviews and Ratings
  - Standard 12 Botany Practical Manual and Bestseller Lists
5. Accessing Standard 12 Botany Practical Manual Free and Paid eBooks
  - Standard 12 Botany Practical Manual Public Domain eBooks
  - Standard 12 Botany Practical Manual eBook Subscription Services

- Standard 12 Botany Practical Manual Budget-Friendly Options
- 6. Navigating Standard 12 Botany Practical Manual eBook Formats
  - ePub, PDF, MOBI, and More
  - Standard 12 Botany Practical Manual Compatibility with Devices
  - Standard 12 Botany Practical Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Standard 12 Botany Practical Manual
  - Highlighting and Note-Taking Standard 12 Botany Practical Manual
  - Interactive Elements Standard 12 Botany Practical Manual
- 8. Staying Engaged with Standard 12 Botany Practical Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Standard 12 Botany Practical Manual
- 9. Balancing eBooks and Physical Books Standard 12 Botany Practical Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Standard 12 Botany Practical Manual
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Standard 12 Botany Practical Manual
  - Setting Reading Goals Standard 12 Botany Practical Manual
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Standard 12 Botany Practical Manual
  - Fact-Checking eBook Content of Standard 12 Botany Practical Manual
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

### **Standard 12 Botany Practical Manual Introduction**

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