

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 Humans
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

Ensheng Dong



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