

PRAMUKH SWAMI SCIENCE & H.D.PATEL ARTS COLLEGE, KADI
DEPARTMENT OF BIOLOGY
BOTANY PRACTICAL INDEX

No.	Experiment	Page No.	Date of Experiment	Date of Report	Signature
Unit : 1 : Cell Biology					
1	To study the various shape of cells. (a) Amoeba Cell (b) Paramecium Cell (c) Human RBC Cell (d) Nerve Cell (e) Spirogyra Cell (f) Onion Leaf scale				
2	To study the various types of cells on the basis of Nucleus through micrographs. (a) Akaryota-Bacteryophage (b) Prokaryta-Cyanophycean Cell (c) Eukaryota-typical animal & plant Cell				
3	To study the Structure of Plasmodesmata.				
4	To study the ultra structure of Nucleus and Chromosomes.				
Unit : 2 : Biology of Cryptogams					
5	To study the Life history of <i>Spirogyra</i> - Thallus and Reproductive Structure.				
6	To study the Life history of <i>Mucor</i> – (a) <i>Mycelium</i> (b) <i>Asexual</i> (c) <i>Sexual Reproductive structure</i>				
Unit : 3 : Plant Anatomy					
7	To study the various types of Simple Tissues in sunflower stem. (parenchyma, collenchyma and sclerenchyma)				
8	To Study The Various Types of Complex tissues in Cucurbita stems.(T.S and L.S) Thickenings in vessels, tracheids & sieve tube				
9	To study Uniseriate epidermis(Sunflower Leaf) and Multiseriate epidermis(Nerium Leaf)				

PRAMUKH SWAMI SCIENCE & H.D.PATEL ARTS COLLEGE, KADI
DEPARTMENT OF BIOLOGY
BOTANY PRACTICAL INDEX

10	To Study the Structure of Stomata. Dicot-Hibiscus & Monocot-Maize.				
11	To study Different type of Trichomes. Unicellular stellet :Abutilon, Multicellular unbranchched:Tridax&branched:Withania,Glandular:Dhatuara				
12	To study Motor cells in Maize leaf.				
13	To study Cystolith in Banyan leaf.				
14	To study Sphaeroraphides in <i>Nerium</i> leaf				
15	To study Velamen tissue in aerial root of Orchid.				
16	To study Permanent slides of Periderm and Lenticel structure- <i>Tinospora</i> .				
Unit : 4 : Environmental Biology					
17	To study of Biotic factors through specimens/charts/photographs A. Positive inter relationship <ul style="list-style-type: none"> • Symbiosis: (Mutalism:Lichens,Root nodules & Mycorrhizae) • Commensalim: (Epiphytes- Orchid.) 				
18	B. Negative Inter relationship- <ul style="list-style-type: none"> • Exploitation: Parasitism (Cuscuta, Loranthus) • Predation (Nepenthus,Utricularia) 				
19	To Study Different Pyramids of (a) Number (b) Biomass (c) Energy				