

SARDAR PATEL UNIVERSITY
Programme: B.Sc
Semester: I
Syllabus with effect from: June-2011

Paper Code: US01CBIO03	Total Credit: 2
Title of Paper: Biology Practical	

Unit	Description in Detail	Weightage (%)
I	<p>Zoology Practicals Study of Planktons Classification of Phylum Protozoa, Porifera and Coelenterata Euglena, Plasmodium, Leucosolenia, Hyalonema, Bathsporgia, Aurelia, Physalia, Sea-anemone, Favia and Fungia and Study of permanent slides of Hydra- L.S, T.S through testis, T.S through ovary. Classification of Phylum Platyhelminthes, Nematelminthes and Annelida . Planaria, Liverfluke, Tapeworm, Ascaris, Nereis, Earthworm, Leech. Classification of Phylum Arthropoda . Peripatus, Crab, Millipede, Grasshopper, Butterfly, Spider and Metamorphosis in insects (Mosquito). Classification of Phylum Mollusca, Echinodermata and Hemichordata . Dentalium, Chiton, Pila, Bivalve, Brittlestar, Sea Cucumber, Sea Urchin, Sea Lily and Balanoglossus. Study of Parasites . Filaria, Plasmodium, Tapeworm and Trypanosoma. Dissection of Earthworm: External Characters and Digestive system with mounting of setae and Spermatheca. Dissection of Earthworm: Reproductive system with mounting of Blood glands and Septal nephridia. Dissection of Earthworm: - Nervous system with mounting of Ovary. Dissection of Cockroach: - External Characters and Digestive system with mounting of Gizzard, Cornea, Spiracles and leg. Dissection of Cockroach: - Reproductive system with mounting of Mouth parts and Salivary Glands. Dissection of Cockroach: - Nervous system with mounting of Trachea, Male and Female Gonapophysis.</p>	
II	<p>Botany Practicals. Study of Electron Micrograph. Mitochondria, Chloroplast, Nucleus, Golgi Complex. Study of various stages of Mitosis in Onion root-tip. Study of virus infected plant specimens, Study of Bacteria with help of P.S. Study of Internal Structure of Cycas leaflet (T.S) Cycas-Male Cone. Microsporophyll and Megasporophyll (specimens) Study of Leaf, Study of Inflorescence, Study of Flower. Study of aestivation and placentation. Study of family: Malvaceae, Study of family: Solanaceae. Study of family: Cucurbitaceae. Study of family: Rubiaceae.</p>	

