SARDAR PATEL UNIVERSITY

Programme: B.Sc (Home Science)

Semester: I

Syllabus with effect from: June-2011

Contents:

Plant body: Life processes, economic importance, cell and tissue.

Animal cell and tissue, useful and harmful organisms, Micro-organisms, Genetics,

Health and diseases.

Theory

Paper Code: UH01CBIO03	Total Credits 2
Title Of Paper: Biology	Total Credit: 2

Unit	Description in detail	Weighting (%)
I	Biological Science: Introduction, major branches of Biology, its significance.	
	Elementary study of plant and animal cell.	
	Composition of protoplasm.	25%
	Brief study of cell division.	
	Study of plant and animal tissues.	
II	Form, structure and functions of vegetative and reproductive parts of seed	
	Bearing plants.	
	Study of unisexual and bisexual flowers.	25%
	Elementary study of pollination, fertilization and reproduction in plants.	
	Plant metabolism: Transpiration, Photosynthesis and respiration.	
III	Heredity and variations.	25%
	Sex determination in man and multiple birth.	
	General Health care and common diseases in human.	
	Economic importance of plants and animals.	
IV	Transport of materials in living systems;	
	Diffusion	
	Exchange of substances between cells and their environment.	
	Intracellular exchange of substances.	25%
	Water and food transport	
	Brief account of Virus, Bacteria and yeast, Commercial importance of	
	Microbes.	

Basic Text & Reference Books

- Dutta A.C.,(1980) 'A class book of Botany' John Brown, oxford university press. Faraday House, Calcutta- 13.
- Apsangikar D.K. and Rane K.T.(1975): 'Introduction to Botany': Popular Publication Surat.
- ➤ Sharma V.K. (1990) 'Biology class XI'Publishers 23, Daryaganj New Delhi-110002.
- Sankaram M.S.(1990) 'Biology for Class XII'Tata McGraw-Hill Publishing Company Limited 4/12 Asaf Ali Road New Delhi.
- ➤ Gujarat State Board of school Text books (1994) 'Biology Standard 12': old assembly Building Sector 17, Gandhinagar.
- ➤ Gujarat State Board of school Text books (1996) 'Biology Standard 12': old assembly Building Sector 17, Gandhinagar.
- Maheshwari P.Manoharlal (1996) 'Biology Part 1-7' NCERT New Delhi.

