

SARDAR PATEL UNIVERSITY
Programme: BSC (ZOOLOGY)
Semester: IV
Syllabus with effect from: November 2012

Paper Code: US04CZOO02	Total Credit: 3
Title Of Paper: Physiology, Economic Zoology, Toxicology and Wild Life.	

Unit	Description in detail	Weighting (%)
1	Human Reproduction Male and Female Reproductive Orgens. Female Reproductive Cycle. Fertilization and Implantation of Embryo. Embryonic and fetal Development (BRIEF) Maternal Changes During Pregnancy Labor Methods of Birth Control.	
2	Lymphatic System of Human and Structure and Function of Spleen. Immunology. Non Specific Resistance to Diseases. Specific Resistance (Immunity, Maturation of T Cell, B-Cell, Antigen, Types of Immune Response, Pathway of Antigen Process) Cell Mediated and Antibody Mediated Immunity.	
3	Economic Zoology - Apiculture, Lac Culture, Seri Culture and Prawn Culture. Toxicology. Introduction, Scope, Division and Goal of Toxicology. Toxic Chemicals: Fertilizers, Pesticides, Automobile, Heavy Metals.	
4	Wild Life. Introduction, Brief History of Gujarat wild life. Importance of Wild Life. Vanishing of Wild Life. Conservation of Wild Life. Santuary and National Park of Gujarat. Concept of Thretended Species. Wild Life Organisation.	

Basic Text & Reference Books:

- A Text Book of Animal Physiology by A K Berry.
- Animal Physiology by M. P. Arora.
- Principles of Anatomy and Physiology by Tortora Grabowski
- Zoology for IAS by Satguru Prasad.
- Animal Ecology by M.P.Arora.
- Economic Zoology by Shukla and Upadhyay.
- Toxicology by P.D. Sharma.
- Immunology by Kube

