SARDAR PATEL UNIVERSITY Programme: BSC (ZOOLOGY)

Semester: III

Syllabus with effect from: June 2012

Paper Code: US03CZOO02	Total Credit: 3	
Title Of Paper: Physiology and Adaptation	Total Credit: 5	

Unit	Description in detail	Weighting (%)
1	CIRCULATION	
	Circulatory media, Types of Circulatory system.	
	Formation of Blood Cells	
	Coagulation of Blood AND Types of anti Coagulants.	
	Types of Heart. Structure and Working Mechanism of Human	
	Heart.Cardiac cycle and ECG.	
	Blood Group ABO System, RH Factor and Blood.	
	Transfusion	
2	HUMAN RESPIRATORY SYSTEM.	
	Respiratory Organs.	
	Pulmonary Ventilation.	
	Lung Volumes and capacity	
	Transport of gases	
	Regulation of Respiration	
	Disorders of Respiratory system.	
3	DISEASES	
	AIDS, STD, (Gonorrhea, Syphilis, Genital Herpes)	
	Coronary Heart Diseases: Bypass, B.P, Atherosclerosis, Anemia	
	Parasitology: E.Histolytica, Balantidium coli, Trypanosoma.	
	Hook Worm (Ancylostoma), Pin Worm (Oxyuris), Trichinella spiralis,	
	Dracunculus, Schistosoma.	
4	ADAPTATION	
	Terrestrial: Desert, Burrowing, Cursoreal, Arboreal, Volant	
	Aquatic: Fresh Water, Marine Water.	
	Special: Mimicry, Camouflage, Echolocation, Electric Organ.	

Basic Text & Reference Books:

- A Text Book of animal Physiology by A K BERRY.
- Animal Physiology by M. P. ARORA.
- > Priciples of anatomy and Physiology by TORTORA GRABOWSKI.
- > Zoology for IAS by SATGURU PRASAD.
- ➤ Animal Ecology by M.P.ARORA.
- ➤ Medical Parasitology by RAJESH KARYAKARTE, AJIT DAMLE.
- Economic Zoology by SHUKLA AND UPADHYAY.

