SARDAR PATEL UNIVERSITY Programme: BSC (ZOOLOGY)

Semester: III

Syllabus with effect from: June 2012

Paper Code: US03EZOO01	Total Credit: 3
Title Of Paper: Invertebrate, Physiology, Biotechnology & Parasitology	Total Credit: 3

Unit	Description in detail	Weighting (%)
1	Type Study of	
	Nereis	
	Liverfluke	
2	Circulation:	
	Circulatory media, Types of Ciculatory system, Types of heart, Structure and	
	working of human heart, structure of blood vessels, Anticogulants.	
	Blood groups - 'ABO' system, Rh factor, Blood transfusion, lymph & lymphatic	
	system.	
3	Endocrinology:	
	Hormones - Introduction, Classification of hormone, mechanism of action (lipid	
	and water soluble hormone) Structural features and hormonal secretions of	
	Pituitary gland	
	Thyroid gland	
	Adrenal gland	
	Parathyroid gland	
4	Biotechnology & Parasitology	
	Labo.fascilities for tissue culture, types of culture media for cells & tissue,	
	culture procedure, Transgenic animals, forensic medicine.	
	Parasitology: Structure, pathogenecity, prevention and control of following	
	parasites.	
	Protozoa : Balantidium coli, Trypanosoma gambiense	
	Helminthes: Ancylostoma, pin-worm,	
	Diseases : AIDS, STD, Coronary heart diseases.	

Basic Text & Reference Books:

- > Invertebrate zoology: R.L. Kotpal
- ➤ Invertebrate zoology: H.C.Nigam
- > Invertebrate zoology: Jordan & Verma
- > Animal Physiology: A.K.Berry
- > Animal Physiology: Verma, Tyagi, Agarwal
- ➤ Elements of Biotechnology : P.K.Gupta
- > Economic Zoology: Sukla & Upadhyay
- Medical parasitology: Dey and Dey

