

SARDAR PATEL UNIVERSITY
Programme: BSC (ZOOLOGY)
Semester: V
Syllabus with effect from: June 2013

Paper Code: US05CZOO04	Total Credit: 3
Title Of Paper: Physiology	

Unit	Description in detail	Weighting (%)
1	Types of muscle tissue Properties of muscle tissue Types of muscle protein Mechanism of muscle contraction Muscle metabolism	
2	General organization of nervous system Histology of nervous tissue Types of neurons Conduction of nerve impulse Neurotransmitters Signal transmission at synapses Human brain structure & function Human cranial nerves Spinal nerves Autonomous nervous system Reflex action	
3	Histology of G.I.tract , regulation & control of secretion Mouth: <ul style="list-style-type: none"> • Salivary gland • Esophagus • Stomach • Intestine • Liver • Pancreas Physiology of digestion, Absorption Assimilation, Defecation	
4	Endocrine gland, Hormone activity Mechanisms of hormone action, Control of hormone secretion Pituitary gland, Thyroid gland, Parathyroid gland, Adrenal gland	

Basic Text & Reference Books:

- Animal physiology - A.K.Berry
- Animal physiology - M.P. Arora
- Principal of anatomy & physiology-Tortora
- Human physiology - C.C,Chettergi
- Animal physiology - Guyton

