THIRD SEMESTER B.Sc. ZOOLOGY COMPLEMENTARY COURSE

Theory Course- III

PHYSIOLOGY AND ETHOLOGY

Code: ZOL3C03T

[54 hrs] [3 hours/week] [2 credits]

COURSE OUTCOMES [COs]

COs	Course Outcome Statements
CO1	Describe the structure of plasma membrane and the various trans-membrane transport mechanisms (3 hrs)
CO2	Enumerate the constituents of normal diet and the mechanism of digestion and absorption of carbohydrates, proteins and lipids and the regulation of gastrointestinal function (4 hrs)
CO3	Explain the mechanism of transport of respiratory gases, control of respiration, respiratory problems and artificial ventilation (6 hrs)
CO4	Explain the structure and working of human heart and mechanism of regulation of heart beat; constituents of human blood and blood transfusion and cardiovascular problems (7 hrs)
CO5	Illustrate the structure of human kidney, the mechanism of urine formation, hormonal control of kidney function and kidney disorders; osmoregulation and urea cycle (6 hrs)
CO6	Enumerate the structure of myofibrils and myofilaments; muscle contractile and regulatory proteins and mechanism of muscle contraction (7 hrs)
CO7	Explain different types of nerve cells and glial cells, maintenance of resting membrane potential, generation and propagation of action potential and synaptic transmission (7 hrs)
CO8	Describe innate behavior, learned behavior, patterns of behavior and factors that affect behavior (8 hrs)
CO9	Enumerate biological rhythms, communication in animals and social organization in mammals (6 hrs)