

SYLLABUS :-

Nerve-Muscle Physiology: Neuron structure and function; Regeneration of nerve;;Axoplasmic flow and transport mechanism in the axons; Nature of nerve fibre excitation and interpretation of action potential; Significance of different nerve fibre types. Structural architecture of Neuro-Muscular Junction (NMJ); Neuro-muscular transmission - Electrical and Biochemical events; Drugs acting at NMJ. Protein components and contraction mechanism of muscles. B. Nervous System : Interpretative function of cerebral cortex. Aging and its effect on brain, Regulatory function of cerebellum and structure activity relationship (neural circuitry) of cerebellum, Vestibular apparatus, hypothalamus and its functions, basal ganglia, thalamo cortical projections. Non-specific sensory mechanism- Sleep and wakefulness. Behavioral functions of the brain - emotion, memory, learning and consciousness, Pharmacology and chemical transmission autonomic nervous system. C. Special Sense: Sensory modalities, Sensory receptors, Sensory circuits, and Sensory perception. Taste system , Olfactory system, Visual Sense and Auditory Senses