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TOPIC 3: THALAMOCORTICAL PROCESSING OF SOMATOSENSORY INFORMATION; 8: The Visual System; TOPIC 1: PHOTOTRANSDUCTION; TOPIC 2: SYNAPTIC ORGANIZATION OF THE RETINA; TOPIC 3: HIGHER VISUAL PROCESSING; 9: The Auditory System; TOPIC 1: HAIR CELLS AND THE COCHLEA; TOPIC 2: THE AUDITORY SYSTEM OF THE BRAIN; 10: Chemical Senses; TOPIC 1: THE OLFACTORY SYSTEM; TOPIC 2: THE GUSTATORY SYSTEM; EXAM: First Midterm Exam; Unit IV: MOTOR CONTROL SYSTEMS; 11: Neural Control of Muscle Contraction; TOPIC 1: EXCITATION-CONTRACTION COUPLING; TOPIC 2: NEURAL CONTROL OF MUSCLE CONTRACTION; 12: Spinal Cord Motor Mechanisms; TOPIC 1: REFLEXES CONTROLLING MUSCLE LENGTH, MUSCLE TENSION, AND LIMB POSITION; TOPIC 2: SPINAL CIRCUITS CONTROLLING LOCOMOTION; 13: Brain Motor Mechanisms; TOPIC 1: CORTICAL AND BRAIN STEM MOTOR SYSTEMS; TOPIC 2: BASAL GANGLIA, THALAMUS, AND CEREBELLUM; 14: The Autonomic Nervous System; TOPIC 1: SYMPATHETIC AND PARASYMPATHETIC DIVISIONS OF THE AUTONOMIC NERVOUS SYSTEM; TOPIC 2: BRAIN SYSTEMS CONTROLLING THE AUTONOMIC NERVOUS SYSTEM; 15: Translating Sensory Information into Motor Signals; TOPIC 1: VESTIBULO-OCULAR REFLEX; TOPIC 2: BRAIN SYSTEMS CONTROLLING VOLUNTARY EYE MOVEMENTS; Unit V: HIGHER NEURAL FUNCTIONS; 16: The Limbic System: Homeostasis, Motivation, and Emotion; TOPIC 1: ANATOMY OF THE LIMBIC SYSTEM; TOPIC 2: FUNCTIONAL ROLES OF THE HYPOTHALAMUS; 17: Language and Cognition; TOPIC 1: LANGUAGE; TOPIC 2: OTHER COGNITIVE FUNCTIONS; 18: Learning and Memory; TOPIC 1: LONG-TERM POTENTIATION IN THE HIPPOCAMPUS; TOPIC 2: MODIFICATION OF SYNAPTIC STRENGTH IN REFLEX CIRCUITS; Unit VI: MOLECULAR NEUROSCIENCE; 19: Molecular Aspects of Neural Development; TOPIC 1: CELL ADHESION MOLECULES AND NEURITE OUTGROWTH; TOPIC 2: NEUROTROPHIC FACTORS AND SYNAPSE FORMATION

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