

Part I Basic Neuroscience

Unit I Central Nervous System

- 1 Organization of the Nervous System
- 2 Development of the Nervous System
- 3 Neurohistology
- 4 Neurophysiology

Unit II Gross Anatomy of Brain and Spinal Cord

- 5 Gross Topography of the Brain
- 6 Blood Supply of the Brain
- 7 Ventricles and Cerebrospinal Fluid (CSF)
- 8 The Meninges
- 9 Cranial Nerves
- 10 Gross Anatomy of the Spinal Cord

Unit III Sensory Systems

- 11 Anatomical Receptors and Nerve Fibers
- 12 Somatosensory Systems Part I—Somatosensory Pathways of Body
- 13 Somatosensory Systems Part II—Somatosensory Pathways of Head
- 14 Pain
- 15 Special Senses

Unit IV Motor Systems

- 16 Direct Activation Pathways
- 17 Indirect Activation Pathways
- 18 Integrated Systems

Part II Orofacial Neuroscience

Unit V Review of Orofacial Structures and Tissues

- 19 Development and Organization of Oropharyngeal Region
- 20 Overview of Orofacial Pathways Part I—Trigeminal and Facial Nerves
- 21 Overview of Orofacial Pathways Part II—Glossopharyngeal, Vagus, and Hypoglossal Nerves
- 22 Neuromuscular Control of Mastication, Swallowing, and Speech

Unit VI Dental-related Structures

- 23 Temporomandibular Joint
- 24 Salivary Glands
- 25 Teeth

Unit VII Orofacial Pain and Dental Anesthesia

- 26 Orofacial Pain
- 27 Local Anesthesia: Intraoral Injections

Appendix: Compilation of Muscles Involved in Chapter 22