



NOTES ANATOMY & PHYSIOLOGY

NERVOUS SYSTEM ANATOMY & PHYSIOLOGY

THE NERVOUS SYSTEM

- Network of brain, spinal cords, nerves
- Sensory/afferent, integrative, motor/efferent functions

Sensory/afferent

- Receptors monitor external, internal environment
 - Conscious stimuli (e.g. vision, hearing, touch)
 - Unconscious stimuli (e.g. pH, blood pressure)

Integrative

- Sensory/afferent input received by central nervous system → information processed → interpreted → response initiated

Motor/efferent

- Brings motor information from central nervous system to periphery
- Controls actions of effector organs (e.g. muscles, glands)

ORGANIZATION OF THE NERVOUS SYSTEM

Central nervous system (CNS)

- Brain, spinal cord

Peripheral nervous system (PNS)

- Nerves connect PNS with CNS
- Includes 12 pairs of cranial nerves, 31 pairs of spinal nerves
- Efferent (motor), afferent (sensory) divisions

- Efferent divided into somatic (voluntary), autonomic (involuntary) nervous systems
- Autonomic nervous system comprised of sympathetic, parasympathetic nervous systems

- Sensory receptors: structure at nerve ending; detects physical, environmental stimulus; e.g. pain, temperature
- Ganglia/ganglion (plural/singular): collection of neuron cell bodies outside CNS
- Plexuses/plexus (plural/singular): network of nerves outside CNS

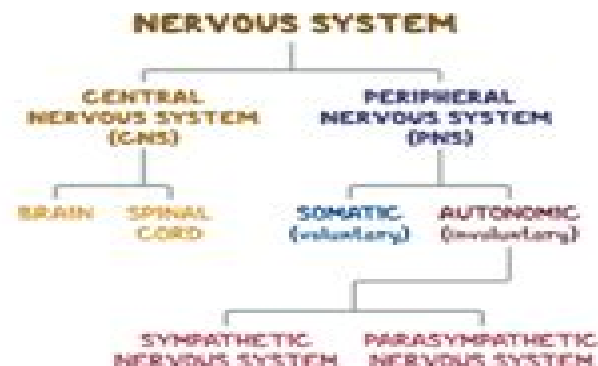


Figure 50.1 Organization of the nervous system.

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Pamela Primrose



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Examination Questions and Answers in Basic Anatomy and Physiology Martin Caon, 2016-10-11 This book provides two thousand multiple choice questions on human anatomy and physiology separated into 40 categories The answer to each question is accompanied by an explanation Each category has an introduction to set the scene for the questions to come However not all possible information is provided within these Introductions so an Anatomy and Physiology textbook is an indispensable aid to understanding the answers The questions have been used in examinations for undergraduate introductory courses and as such reflect the focus of these particular courses and are pitched at the level to challenge students that are beginning their training in anatomy and physiology The questions and answer combinations are to be used both by teachers to select questions for their next examinations and by students when studying for an upcoming test Students enrolled in the courses for which these questions were written include nursing midwifery paramedic physiotherapy occupational therapy nutrition dietetics health sciences and students taking an anatomy and physiology course as an elective

Anatomy & Physiology, Biochemistry - 2024 Akash Tiwari, 2023-12-19 *Paramedic: Anatomy & Physiology* American Academy of Orthopaedic Surgeons (AAOS), Bob Elling, Kirsten M. Elling, Mikel A. Rothenberg, 2005-07-25

Understanding Anatomy & Physiology Gale Sloan Thompson, 2019-10-16 Tackle a tough subject in bite sized pieces A seemingly huge volume of information is organized into manageable sections to make complex concepts easy to understand and remember You begin with an overview of the body including its chemical and cellular structures then progress to one of a kind portrayals of each body system grouped by function Full color illustrations figures sidebars helpful hints and easy to read descriptions make information crystal clear Each unique page spread provides an entire unit of understanding breaking down complex concepts into easy to grasp sections for today's learner NULL Lynn Fitzgerald Macksey, Kelly L. Wiltse Nicely, 2013-02-20 **All India Ayush Post Graduate Entrance Test [AIAPGET] Ayurveda Question Bank [MCQ]**

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