

Anatomy & Physiology Chapter 12 Notes: The Central Nervous System

- CNS consists of brain and spinal cord
- **Cephalization**
 - Evolutionary development of rostral (anterior) portion of CNS
 - Resulted in increased number of neurons
 - Highest level reached in human brain

12.1 Brain Development

- Embryologically, the brain and spinal cord begin as a **neural tube**
- Neural tube's anterior end expands, and constrictions form three **primary vesicles**:
 - Prosencephalon, or forebrain
 - Mesencephalon, or midbrain
 - Rhombencephalon, or hindbrain
- Posterior end becomes spinal cord
- Primary vesicles give rise to five **secondary brain vesicles**
 - Forebrain becomes **telencephalon** and **diencephalon**
 - Midbrain remains undivided
 - Hindbrain becomes **metencephalon** and **myelencephalon**
- Telencephalon gives rise to two **cerebral hemispheres**
 - Together make up the **cerebrum**
- Diencephalon becomes the **epithalamus, thalamus, hypothalamus, and retina**
- Mesencephalon remains the **midbrain**
- Metencephalon becomes the **pons** and **cerebellum**
- Myelencephalon becomes **medulla oblongata**
- Central cavity of neural tube becomes the **ventricles**
- The brain grows faster than surrounding membranous skull, so it must fold to occupy available space
 - Forebrain moves toward **brain stem** (midbrain, pons, medulla oblongata)
 - Cerebral hemispheres double back and envelop diencephalon and midbrain while creasing and folding to increase surface area

Brain Regions and Organization:

- Adult brains have four regions:
 1. Cerebral hemispheres
 2. Diencephalon
 3. Brain stem, consisting of:
 - ◆ Midbrain
 - ◆ Pons
 - ◆ Medulla
 4. Cerebellum
- Gray matter: short, nonmyelinated neurons and cell bodies
- White matter: myelinated and nonmyelinated axons
- Basic pattern found in CNS: central cavity surrounded by gray matter, with white matter external to gray matter
- Features and changes of pattern:
 1. Spinal cord exhibits this basic pattern; however, pattern changes with ascent into brain stem
 2. Brain stem has additional gray matter nuclei scattered within white matter
 3. Cerebral hemispheres (cerebrum) and cerebellum contain outer layer of gray matter called the cortex

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1. Understanding the eBook Cns Study Guide Answers
 - The Rise of Digital Reading Cns Study Guide Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Cns Study Guide Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Cns Study Guide Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Cns Study Guide Answers
 - Personalized Recommendations
 - Cns Study Guide Answers User Reviews and Ratings
 - Cns Study Guide Answers and Bestseller Lists
5. Accessing Cns Study Guide Answers Free and Paid eBooks
 - Cns Study Guide Answers Public Domain eBooks
 - Cns Study Guide Answers eBook Subscription Services
 - Cns Study Guide Answers Budget-Friendly Options
6. Navigating Cns Study Guide Answers eBook Formats

- ePub, PDF, MOBI, and More
- Cns Study Guide Answers Compatibility with Devices
- Cns Study Guide Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Cns Study Guide Answers
 - Highlighting and Note-Taking Cns Study Guide Answers
 - Interactive Elements Cns Study Guide Answers
- 8. Staying Engaged with Cns Study Guide Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Cns Study Guide Answers
- 9. Balancing eBooks and Physical Books Cns Study Guide Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Cns Study Guide Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Cns Study Guide Answers
 - Setting Reading Goals Cns Study Guide Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Cns Study Guide Answers
 - Fact-Checking eBook Content of Cns Study Guide Answers
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
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