#### Chapter 11, Fundamentals of the Nervous System and Nervous Tissue - Study Guide Read pages: 386-394; 407-408

- Explain the function of the nervous system.
  - Master control, communication and coordinating system between the different body structures and system
- Explain what is reflected by the activity of the nervous system.
  - Every activity, thought and emotion are a reflection of the nervous system.
- 3. Describe what type of signal the nervous system utilizes.
  - a. Electro-chemical signals
- 4. Identify another system that performs a similar function.
  - Endocrine system produces hormones
- Identify the two different cell groups that compose the nervous system.
  - a. Neurons (nerve cells) & neuroglial cells
- Describe the basic function of the neuron.
  - Neurons: transmit nerve impulses/signals, highly specific electrical currents
- Briefly describe the basic function of neuroglial/glial cells.
  - a. Neuroglial cells aid and protect the neurons
- Identify the two basic divisions of the nervous system.
  - a. Central nervous system
  - b. Peripheral nervous system
- Identify the two structures that compose the central nervous system (CNS).
  - a. Brain & spinal cord
- 10. Explain the functions of the nerves that compose the peripheral nervous system (PNS)
  - a. Nerves connect all the different body parts to the CNS.
- Identify the three general functions of the nervous system.
  - Sensory, motor, integrative
- 12. Describe the sensory division of the nervous system.
  - Sensory division (afferent) Receptors at the distal end of the peripheral nerves gather information and turn it into nerve impulses and send them to the CNS
- 13. Describe the motor division of the nervous system.
  - Motor division (efferent): Carries nerve impulses from the CNS to the effectors (muscles or glands) so that they can respond
- 14. Describe the integrative division of the nervous system.
  - Integrative division (associative): sensory impulses are integrated into the brain as perceptions.
     Followed by conscious or subconscious analysis and decisions.
    - Leads to motor functions by the effectors
    - In charge of cognitive thinking, memory and problem solving
    - iii. Located between the sensory and motor divisions
- Describe the difference between efferent and afferent nerves and nerve impulses.
  - a. Afferent going TOWARDS CNS
  - Efferent going AWAY from the CNS
- Describe and explain the function of a nerve receptor.
  - a. Gather information and turn it into nerve impulses
- 17. Explain where motor (efferent) nerve impulses originate and where they go.
  - a. Originate from the CNS and go to the effectors (muscles or glands)
- Identify the two different systems of the motor division.
  - a. Somatic and Autonomic
- 19. Describe the differences between the somatic and autonomic nervous systems.
  - a. Somatic directs structures under our conscious control (skeletal muscles)
  - Autonomic (autonomous) directs control over unconscious control (effectors involuntary/smooth glands/muscles)

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**Huangqi Zhang** 

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# **Table of Contents Ttc Study Guide Answers**

- 1. Understanding the eBook Ttc Study Guide Answers
  - The Rise of Digital Reading Ttc Study Guide Answers
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Ttc 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 Ttc Study Guide Answers
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Ttc Study Guide Answers
  - Personalized Recommendations
  - Ttc Study Guide Answers User Reviews and Ratings
  - Ttc Study Guide Answers and Bestseller Lists
- 5. Accessing Ttc Study Guide Answers Free and Paid eBooks
  - Ttc Study Guide Answers Public Domain eBooks
  - Ttc Study Guide Answers eBook Subscription Services
  - Ttc Study Guide Answers Budget-Friendly Options
- 6. Navigating Ttc Study Guide Answers eBook Formats

- o ePub, PDF, MOBI, and More
- Ttc Study Guide Answers Compatibility with Devices
- Ttc Study Guide Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - o Adjustable Fonts and Text Sizes of Ttc Study Guide Answers
  - Highlighting and Note-Taking Ttc Study Guide Answers
  - Interactive Elements Ttc Study Guide Answers
- 8. Staying Engaged with Ttc Study Guide Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Ttc Study Guide Answers
- 9. Balancing eBooks and Physical Books Ttc Study Guide Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Ttc Study Guide Answers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Ttc Study Guide Answers
  - Setting Reading Goals Ttc Study Guide Answers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ttc Study Guide Answers
  - Fact-Checking eBook Content of Ttc 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
  - Interactive and Gamified eBooks

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