

Chapter 11, Fundamentals of the Nervous System and Nervous Tissue - Study Guide

Read pages 386- 394; 407-408

1. Explain the function of the nervous system.
 - a. Master control, communication and coordinating system between the different body structures and system
2. Explain what is reflected by the activity of the nervous system.
 - a. 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.
 - a. Endocrine system produces hormones
5. Identify the two different cell groups that compose the nervous system.
 - a. Neurons (nerve cells) & neuroglial cells
6. Describe the basic function of the neuron.
 - a. **Neurons**: transmit nerve impulses/signals, highly specific electrical currents
7. Briefly describe the basic function of neuroglial/glia cells.
 - a. **Neuroglial cells**: aid and protect the neurons
8. Identify the two basic divisions of the nervous system.
 - a. Central nervous system
 - b. Peripheral nervous system
9. 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
11. Identify the three general functions of the nervous system.
 - a. Sensory, motor, integrative
12. Describe the sensory division of the nervous system.
 - a. **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.
 - a. **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.
 - a. **Integrative division (associative)**: sensory impulses are integrated into the brain as perceptions. Followed by conscious or subconscious analysis and decisions.
 - i. Leads to motor functions by the effectors
 - ii. In charge of cognitive thinking, memory and problem solving
 - iii. Located between the sensory and motor divisions
15. Describe the difference between efferent and afferent nerves and nerve impulses.
 - a. **Afferent**: going TOWARDS CNS
 - b. **Efferent**: going AWAY from the CNS
16. 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)
18. 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)
 - b. **Autonomic (autonomous)**: directs control over **unconscious** control (**effectors**: involuntary/smooth glands/muscles)

Study Guide To Epidermatology

Daniel F McAuley



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Kleinbaum, Kevin M. Sullivan, Nancy D. Barker, 2007-03-11 In the nearly three years since the publication of the ActivEpi companion text the authors received several suggestions to produce an abbreviated version that narrows the discussion to the most essential principals and methods A Pocket Guide to Epidemiology contains less than half as many pages as the ActivEpi Companion Text and is a stand alone introductory text on the basic principals and concepts of epidemiology

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Teaching Epidemiology Jørn Olsen,Naomi Greene,Rodolfo Saracci,Dimitrios Trichopoulos,2015-03-26 Teaching epidemiology requires skill and knowledge combined with a clear teaching strategy and good pedagogic skills The general advice is simple if you are not an expert on a topic try to enrich your background knowledge before you start teaching The new edition of Teaching Epidemiology helps you to do this and by providing world expert teachers advice on how best to structure teaching providing a unique insight into what has worked in their hands This book will help you to tailor your own epidemiology teaching programme The fourth edition of this established text has been fully revised and updated drawing on new research findings and recently developed methods including research technologies in genetic epidemiology and method development in relation to causal analysis Analytical tools provide teachers in the field with the skills to guide students at both undergraduate and postgraduate levels Each chapter in Teaching Epidemiology comprises key concepts in epidemiology subject specific methodologies and disease specific issues to provide expert assistance in the teaching of a wide range of epidemiology courses

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Thomas C. Timmreck, 2002 This text for advanced undergraduate and graduate students can also serve as a reference for epidemiologists working in the field industrial hygienists infectious disease nurses and staff epidemiologists Coverage progresses from foundations disease concepts and epidemiological measures of health Friis' Epidemiology 101, Third Edition Scott Quinlan, 2024-03-11 Epidemiology 101 is designed for undergraduate students who have little to no prior experience with health related fields or statistics The text was written in response to a growing need for epidemiological content in undergraduate programs and curricula specifically as a liberal arts subject and emphasizes socially related determinants of health and health disparities relevant This text fulfills this need by presenting key concepts of epidemiology in a clear and precise way and uses learning objectives and study questions that make topics accessible to students who have an interest in epidemiology The text encourages problem analysis deductive and inductive reasoning and applying generalizations to a larger context all of which are key skills used in epidemiology **Epidemiology 101** Robert H. Friis, 2017-03-02 **An Introduction To Public Health And Epidemiology** Carr, Susan, Unwin, Nigel, Pless-Mulloli, Tanja, 2007-09-01 The second edition of this bestselling book provides a multi professional introduction to the key concepts in public health and epidemiology **Epidemiology 101** Robert Friis, 2010-03-25 This fourth edition of Physics for Biology and Medicine covers topics in physics as they apply to the life sciences specifically medicine physiology nursing and other applied health fields This concise introductory paperback surveys and relates basic physics to living systems It discusses biological systems that can be analyzed quantitatively and how advances in the life sciences have been aided by the knowledge of physical or engineering analysis techniques Applicable courses are biophysics and applied physics Provides practical techniques for applying knowledge of physics to the study of living systems Presents material in a straight forward manner requiring very little background in physics or biology Includes many figures examples and illustrative problems and appendices which provide convenient access to the most important concepts of mechanics electricity and optics

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web bolt torque is calculated for a flanged assembly using the following equation applied torque $t = k \cdot f \cdot d$ 12 in fps unit where t torque in ft lb k dimensionless nut factor or tightening factor f axial force in pounds d nominal bolt diameter in inches in the metric system torque applied $t = k \cdot d \cdot f \cdot 1000$ where t torque in n m f bolt load in n

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web easy handling bolt numbering shall be done clockwise around the flange with the following sequence the table below shows the torque sequence for flanges with 4 to 32 bolts number of bolt studbolt tightening sequence to follow 4 bolt flange 1 3 2 4 8 bolt flange 1 5 3 7 2 6 4 8 12 bolt flange 1 7 4 10 2 8 5 11 3 9 6 12 16 bolt

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web for flanges with 12 or more bolts 1 st round 20 percent of final torque 2 nd round 40 percent of final torque 3 rd round 80 percent of final torque 4 th round 100 percent of final torque final round clockwise or counter clockwise around the flange please take note the above bolt tightening sequences are the most

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web jan 27 2021 the gasket type and arrangement of the flange connection are both critical to choosing which tightening

sequence an assembler can use this article which is intended for supervisors engineers or anyone else who oversees bolted flange assembly or maintenance will discuss different torque sequences

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web ensure the bolt lengths allow for a minimum of 2 3 threads protruding beyond the top of the nut when tightened bolts must be tightened according to the below sequence options assemble bolts hand tight maximum 30 of final tightening torque as per below cross pattern sequences

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web step 1 liberally lubricate all load bearing surfaces including threads and flat washers then install and finger tighten all fasteners number the bolts flange according to the bolt torque sequence step 2 set the torque wrench to 1 3 of the target torque value and tighten in an order bolts 1 2 3 4 until all have been tightened

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web tightening sequence the first pass lightly tighten the first bolt then move directly across or 180 degrees for the second bolt then move 1 4 turn around the circle or 90 degrees for the third bolt and directly across for the fourth continue this sequence until all bolts are tightened when tightening a four bolt flange use a criss cross

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