

NAME _____

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Human Reflex Physiology

The Reflex Arc

1. Define *reflex*. A rapid, predictable, involuntary motor response to a stimulus that is mediated over a neural pathway called a reflex arc.
2. Name five essential components of a reflex arc: receptor, sensory neuron, integration center, motor neuron, and effector.
3. In general, what is the importance of reflex testing in a routine physical examination? Allows the condition of the nervous system to be assessed. Pathology is indicated by exaggeration, distortion, or absence of reflexes normally present.

Somatic and Autonomic Reflexes

4. Use the key terms to complete the statements given below.

Key: a. abdominal reflex d. corneal reflex g. patellar reflex
 b. Achilles reflex e. crossed-extensor reflex h. plantar reflex
 c. ciliospinal reflex f. gag reflex i. pupillary light reflex

Reflexes classified as somatic reflexes include the a, b, d, e, f, g, h, and i.

Of these, the simple stretch reflexes are b and e, and the superficial cord reflexes are d and h.

Reflexes classified as autonomic reflexes include c and i.

5. Name two cord-mediated reflexes. Achilles reflex and patellar reflex (crossed-extensor reflex is also cord mediated)

Name two somatic reflexes in which the higher brain centers participate. abdominal
and plantar (also the corneal and gag reflexes)

6. Can the stretch reflex be elicited in a pithed animal (that is, an animal in which the brain has been destroyed)? Yes, in a singly pithed frog in which the cord is intact.

Explain your answer. It is a cord-mediated reflex (initiated and executed at the spinal cord level).

Human Reflex Physiology Lab Answers Exercise 22

F.G. Zak, W. Lawson



Human Reflex Physiology Lab Answers Exercise 22:

Anatomy & Physiology Laboratory Manual and E-Labs E-Book Kevin T. Patton, 2018-01-24 Using an approach that is geared toward developing solid logical habits in dissection and identification the Laboratory Manual for Anatomy and coloring exercises offer a kinesthetic experience useful in retention of content User friendly spiral binding allows for hands free viewing in the lab setting Step by step dissection instructions with accompanying illustrations and photos cover anatomical models and fresh or preserved specimens and provide needed guidance during dissection labs The dissection of tissues organs and entire organisms clarifies anatomical and functional relationships 250 illustrations including common histology slides and depictions of proper procedures accentuate the lab manual s usefulness by providing clear visuals and guidance Easy to evaluate tear out Lab Reports contain checklists drawing exercises and questions that help you demonstrate your understanding of the labs you have participated in They also allow instructors to efficiently check student progress or assign grades Learning objectives presented at the beginning of each exercise offer a straightforward framework for learning Content and concept review questions throughout the manual provide tools for you to reinforce and apply knowledge of anatomy and function Complete lists of materials for each exercise give you and your instructor a thorough checklist for planning and setting up laboratory activities allowing for easy and efficient preparation Modern anatomical imaging techniques such as computed tomography CT magnetic resonance imaging MRI and ultrasonography are introduced where appropriate to give future health professionals a taste for and awareness of how new technologies are changing and shaping health care Boxed hints throughout provide you with special tips on handling specimens using equipment and managing lab activities Evolve site includes activities and features for students as well as resources for instructors *Part - Anatomy & Physiology Laboratory Manual - E-Book* Kevin T Patton, PhD, 2014-12-02 Effectively master various physiology dissection identification and anatomic explorations in the laboratory setting with the Anatomy Physiology Laboratory Manual 9th Edition This practical full color lab manual contains 55 different A P lab exercises that cover labeling anatomy identification dissection physiological experiments computerized experiments and more The manual also includes safety tips a comprehensive instruction and preparation guide for the laboratory and tear out worksheets for each of the 55 exercises In addition 8 e Lab modules offer authentic 3D lab experiences online for virtual lab instruction 8 interactive eLabs further your laboratory experience in the digital environment Complete list of materials for each exercise offers a thorough checklist for planning and setting up laboratory activities Over 250 illustrations depict proper procedures and common histology slides Step by step guidance for dissection of anatomical models and fresh or preserved specimens with accompanying illustrations helps you become acclimated to the lab environment Physiology experiments centering on functional processes of the human body offer immediate and exciting examples of physiological concepts Easy to evaluate tear out lab reports contain checklists drawing exercises and questions that help you demonstrate your understanding of the labs they have participated in Reader

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BOOK JACKET Hole's Human Anatomy & Physiology David Shier, Jackie Butler, Ricki Lewis, 1996 The early 20th century in Italy was a crucial period in its history This book surveys the important issues and topics of the period including the origins and rise of fascism Mussolini as prime minister and dictator the totalitarian state foreign policy and World War II It also examines how Italian fascism compared to other inter war dictatorships **Cerebrovascular Bibliography** , 1972

Cumulated Index Medicus , 1994 Research Awards Index , **Research Grants Index** National Institutes of Health (U.S.). Division of Research Grants, 1972 **Bibliography of Medical Reviews** , 1966 Index Medicus , 2004 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings U.S. Government Research Reports , 1963 Report , 1969 Quarterly Cumulative Index to Current Medical Literature. V. 1-12; 1916-26 , 1924 **Human Factors Engineering Bibliographic Series** , 1965 **Physical Fitness/sports Medicine** , 1986 Rhinology and Skull Base Surgery Christos Georgalas, Wytke J. Fokkens, 2019-04-04 Incorporating advanced up to date basic science with current clinical knowledge to set a new standard in the field This major new reference offers the most complete and balanced coverage of modern rhinology and skull base surgery available today by integrating key advances in the basic sciences with modern clinical developments From the role of genetics allergy and immunology in rhinologic disorders to new evidence based medical and surgical approaches the book covers all aspects of this dynamic multidisciplinary specialty A DVD with nearly 80 videos complements the book Special Features Highlights basic science developments in anatomy embryology pathophysiology immunology genetics and investigative rhinology Includes more than 900 full color photographs and 120 drawings illustrating state of the art sinus surgery and endoscopic skull base and rhinoplasty surgical techniques Structured on evidence based medicine principles and based on current evidence based guidelines including the EPOS 2012 and Endoscopic Skull Base Tumors consensus document Shares the medical and surgical expertise of a truly international team of more than 100 clinicians and scientists from 17 countries A learning focused textbook with structured chapters each one

including tips and tricks important notes key points summary and self assessment questions The only textbook tailored to the curriculum of the British Intercollegiate FRCS ORL HNS American Board of Otolaryngology and European Academy exams A world class clinical reference as well as a comprehensive textbook Rhinology and Skull Base Surgery is unrivalled for its breadth of coverage from basic science breakthroughs to the newest diagnostic tools to the most advanced endoscopic treatment techniques A book that all practicing rhinologists otolaryngologists skull base surgeons as well as residents and fellows in otolaryngology will find indispensable for expanding their surgical and medical expertise as well as gaining a full understanding of the basic science framework of their multifaceted specialty *The Paraganglionic Chemoreceptor System* F.G. Zak,W. Lawson,2012-12-06 One would rarely have the opportunity to augment his medical library with a more exhaustive examination of the subject matter than is contained herein Would only that all areas of one s professional responsibilities be available in such a complete didactic written form Having a decided interest in the subject of head and neck paragangliomas for the past decade I have had the opportunity to explore the subject through published medical literature and personal investigation and feel qualified to commend Doctors Zak and Lawson on their dedication accuracy and thoroughness in this presentation One seeking any particular aspect of knowledge from historical to an up to date concept on the subject of paragangliomas will find his answer here Vincent J Hyams CAPT MC USN Chairman Otolaryngic Pathology Department Armed Forces Institute of Pathology Washington D C Preface One of us F G Z initially became interested in the paraganglionic system when as a resident in pathology at The Mount Sinai Hospital he performed an autopsy on an elderly woman with an intracranial tumor of the posterior fossa which extended through the jugular foramen into the neck in a dumbbell fashion *U.S. Government Research & Development Reports* ,1971 **National Library of Medicine Current Catalog** National Library of Medicine (U.S.),1968 **Current Catalog** National Library of Medicine (U.S.),1968 First multi year cumulation covers six years 1965 70

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