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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

**Ensheng Dong**



## **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 -**

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