

Name: _____

Date: _____

Warm-Up: Overview of Anatomy & Physiology C (p 2-7)

Multiple Choice: *Identify the choice that best completes the statement or answers the question.*

- _____ 1. Which of the following activities does NOT represent an anatomical study:
- Ⓐ making a section through the heart to observe its interior
 - Ⓑ examining the surface of a bone
 - Ⓒ viewing muscle tissue through a microscope
 - Ⓓ studying how the nerves conduct electrical impulses
 - Ⓔ observing the parts of a reproducing cell
- _____ 2. Which of the following is the correct sequence, going from simplest to most complex, in the levels of structural organization of the human body:
- Ⓐ chemical level, cellular level, tissue level, organ level, organ system level, organismal level
 - Ⓑ chemical level, tissue level, cellular level, organ system level, organ level, organismal level
 - Ⓒ cellular level, chemical level, tissue level, organ level, organ system level, organismal level
 - Ⓓ cellular level, tissue level, chemical level, organ level, organ system level, organismal level
 - Ⓔ cellular level, chemical level, tissue level, organ system level, organismal level, organ level
- _____ 3. The main function of the respiratory system is:
- Ⓐ transport oxygen, nutrients, and wastes to and from body cells and tissues
 - Ⓑ produce sperm and eggs
 - Ⓒ supply the body with oxygen and remove carbon dioxide
 - Ⓓ control body activities through hormones released into the blood
 - Ⓔ break down food and deliver the products to the blood for dispersal
- _____ 4. The muscular system consists of the:
- Ⓐ skeletal muscles
 - Ⓑ muscles of the heart
 - Ⓒ muscles in the walls of hollow organs
 - Ⓓ skeletal muscles and the muscles of the heart
 - Ⓔ muscles of the heart and those in the walls of the hollow organs
- _____ 5. Which two organ systems include the pancreas:
- Ⓐ digestive and endocrine systems
 - Ⓑ urinary and respiratory systems
 - Ⓒ reproductive and urinary systems
 - Ⓓ digestive and respiratory systems
 - Ⓔ endocrine and respiratory systems

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- _____ 6. Which system covers the external surface of the body and protects deeper tissues:
- Ⓐ endocrine system
 - Ⓑ integumentary system
 - Ⓒ nervous system
 - Ⓓ lymphatic system
 - Ⓔ skeletal system
- _____ 7. What is the major function of the urinary system:
- Ⓐ return leaked fluids back to the cardiovascular system
 - Ⓑ produce offspring
 - Ⓒ eliminate nitrogen-containing metabolic wastes from the body
 - Ⓓ break down food into absorbable units
 - Ⓔ secrete hormones to regulate body processes such as growth and reproduction
- _____ 8. Which of the following systems is matched most accurately to the life function it provides:
- Ⓐ integumentary system - movement
 - Ⓑ nervous system - excretion
 - Ⓒ muscular system - maintaining boundaries
 - Ⓓ nervous system - responsiveness
 - Ⓔ respiratory system - digestion

Essay

9. Distinguish between *anatomy* and *physiology*.

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10. List, and briefly define, the human body's organization levels from smallest to largest.