

Anatomy/Physiology Test (Introduction)

Science Olympiad Anatomy and Physiology

Name _____

Directions: *Select the best answer to each question.*

- _____ 1. The reflex arc most directly affects which body system?
- a. muscular
 - b. nervous
 - c. skeletal
 - d. integumentary
- _____ 2. Which body system is responsible for transporting hormones?
- a. endocrine
 - b. cardiovascular
 - c. immune
 - d. lymphatic
- _____ 3. Mammary glands belong to which body system?
- a. integumentary
 - b. endocrine
 - c. reproductive
 - d. both b and c
- _____ 4. Which of the following is not part of the sensory system?
- a. sensory effectors
 - b. neural pathways
 - c. perceptual parts of the brain
 - d. none of the above
- _____ 5. Which of the following is not a characteristic of anatomical position?
- a. standing upright
 - b. forearms supine
 - c. palms abducted
 - d. none of the above
- _____ 6. The occipital bone is what to the frontal bone?
- a. distal
 - b. proximal
 - c. anterior
 - d. posterior

- _____ 7. The midbrain is what to the pons?
- a. superior
 - b. inferior
 - c. lateral
 - d. medial
- _____ 8. Which anatomical plane divides the body into front and back portions?
- a. sagittal
 - b. transverse
 - c. coronal
 - d. none of the above
- _____ 9. The brachiocephalic trunk ultimately supplies blood to which regions of the body?
- a. trachea and right lung
 - b. right arm and right lung
 - c. right lung and right side of head
 - d. right arm and right side of head
- _____ 10. Orbital refers to what part of the body?
- a. mouth
 - b. head
 - c. ear
 - d. eye
- _____ 11. What are the two main cavities of the human body?
- a. anterior and ventral
 - b. frontal and dorsal
 - c. dorsal and anterior
 - d. posterior and frontal
- _____ 12. In which body cavity is the thymus gland located?
- a. cervical
 - b. thoracic
 - c. vertebral
 - d. endocrine
- _____ 13. The cranial cavity houses which of the following?
- a. brain
 - b. spinal cord
 - c. peripheral nerves
 - d. all of the above

- _____ 14. The body quadrants further divide which body cavity?
- a. abdominal
 - b. pelvic
 - c. dorsal
 - d. both a and b
- _____ 15. In which body quadrant is the right adrenal gland found?
- a. I
 - b. II
 - c. III
 - d. IV
- _____ 16. What is the lowest level of organization to exhibit life?
- a. organelle
 - b. chemical
 - c. tissue
 - d. cell
- _____ 17. What level of organization do ribosomes fall under?
- a. chemical
 - b. cell
 - c. organelle
 - d. tissue
- _____ 18. What role does the hypothalamus play in human homeostasis?
- a. effector
 - b. receptor
 - c. integrator
 - d. none of the above
- _____ 19. What component of homeostatic mechanisms most utilizes afferent pathways?
- a. receptor
 - b. effector
 - c. integrator
 - d. both a and c
- _____ 20. Which of the following is not regulated by negative feedback?
- a. systolic pressure
 - b. blood glucose levels
 - c. vascular diameter
 - d. none of the above