

## Sample Final Exam

1. Structure in the living world is organized at hierarchical levels. Which of the following choices lists several of these, from least inclusive to most inclusive?
  - a. cell, organ system, tissue, organ, organism
  - b. cell, tissue, organ, organ system, organism
  - c. cell, organ, organ system, tissue, organism
  - d. tissue, cell, organ, organ system, organism
  - e. cell, tissue, organ system, organ, organism
2. Which one of the following is NOT a type of epithelial tissue?
  - a. simple squamous.
  - b. stratified squamous.
  - c. simple columnar.
  - d. adipose tissue.
  - e. simple cuboidal.
3. Skeletal muscles are
  - a. found only in the heart.
  - b. involuntary and have no striations.
  - c. voluntary and are smooth.
  - d. involuntary and have striations.
  - e. voluntary and have striations.
4. Which type of tissue forms a communication and coordination system within the body?
  - a. nervous
  - b. blood
  - c. epithelial
  - d. connective
  - e. muscle
5. A major organ system of the body is
  - a. digestive system.
  - b. lymphatic system.
  - c. endocrine system.
  - d. circulatory system.
  - e. All of the above.
6. Which of the following is one of the body's first lines of defense against infection?
  - a. normal bacteria found on the skin surface.
  - b. skin and mucus membranes.
  - c. antibodies.
  - d. macrophages.
  - e. None of the choices are correct.
7. When you cut yourself, the damaged cells immediately release which of the following chemical alarm signals?
  - a. interferon
  - b. complement
  - c. histamine
  - d. antihistamine
  - e. anti-interferon

8. When you accidentally step on a rusty nail, what is the first immune response?

- \*a. inflammation
- b. B cells
- c. antibodies
- d. several unmentionable words
- e. T helper cells

9. Hormones regulate

- a. growth.
- b. reproduction.
- c. water balance.
- d. metabolism.
- e. All of the above choices.

10. What does the hypothalamus release that activates the pituitary glands?

- a. a variety of hormones.
- b. a variety of releasing hormones.
- c. growth hormones.
- d. neurotransmitters.
- e. the hypothalamus does not release anything that affects the pituitary.

11. Which one of the following is NOT a basic function of the nervous system?

- a. integration
- b. motor output
- c. sensory output
- d. sensory input

12. \_\_\_\_\_ is/are responsible for increased speed of nervous conduction along an axon.

- a. The myelin sheath
- b. Action potentials
- c. Synapses
- d. Neurotransmitters
- e. Glial cells

13. The brainstem is made of

- a. hindbrain and cerebral cortex.
- b. cerebrum and cerebellum.
- c. midbrain and hypothalamus.
- d. midbrain and hindbrain.
- e. cerebral cortex and glial cells.

14. The cerebral cortex is divided into

- a. 4 lobes.
- b. 5 lobes.
- c. 3 lobes.
- d. 2 hemispheres.
- e. forebrain and midbrain.

15. Which of the following components of the human eye forms the iris?

- a. sclera
- b. choroid
- c. retina
- d. pupil
- e. vitreous humor

16. The autonomic nervous system

- a. integrates sensory inputs to the brain.
- b. carries signals to and from skeletal muscles.
- c. regulates the internal environment of the body.
- d. is mostly voluntary.
- e. is part of the central nervous system.

17. In mammals, blood returning from the head will pass into this chamber of the heart \_\_\_\_\_.

- a. right atrium.
- b. left atrium
- c. liver.
- d. left ventricle.
- e. aorta.

18. The largest blood vessel in the human body is the

- a. superior vena cava.
- b. vena cava.
- c. maxims artery.
- d. aorta.
- e. right atrium.

19. Which one of the following is a heart pacemaker

- a. AV valve.
- b. sinoatrial node.
- c. aorta.
- d. heart center of the brain.
- e. None of the choices are correct.

Answers:

- 1. b.
- 2. d.
- 3. e.
- 4. a.
- 5. e.
- 6. b.
- 7. c.
- 8. a.
- 9. e.
- 10. b.
- 11. c.
- 12. a.
- 13. d.
- 14. a.
- 15. b.
- 16. c.
- 17. a.
- 18. d.
- 19. b.