

## HESI ANATOMY AND PHYSIOLOGY

1. Which hormone initiates the preparation of the endometrium of the uterus for pregnancy?
  - A. FSH
  - B. Estrogen
  - C. LH
  - D. Progesterone
  
2. What is the name of the structure that prevents food from entering the airway?
  - A. trachea
  - B. esophagus
  - C. diaphragm
  - D. epiglottis
  
3. Which substance makes up the pads that provide support between the vertebrae?
  - A. bone
  - B. cartilage
  - C. tendon
  - D. fat
  
4. How many different types of tissue are there in the human body?
  - A. four
  - B. six
  - C. eight
  - D. ten

5. A tissue examined under the microscope exhibits the following characteristics: cells found on internal surface of stomach, no extracellular matrix, cells tall and thin, no blood vessels in the tissue. What type of tissue is this?

- A. Epithelial
- B. Connective
- C. Muscle
- D. Cartilage
- E. Nervous

6. Nerve tissue is composed of neurons and connective tissue cells that are referred to as which of the following?

- A. Osteoblasts
- B. Neuroglia
- C. Osteocytes
- D. Arterioles

7. What is the name of the outermost layer of skin?

- A. dermis
- B. epidermis
- C. subcutaneous tissue
- D. hypodermis

8. Which hormone stimulates milk production in the breasts during lactation?

- A. norepinephrine
- B. antidiuretic hormone
- C. prolactin
- D. oxytocin

9. Which of the following structures has the lowest blood pressure?

- A. arteries
- B. arteriole
- C. venule
- D. vein

10. What are chemical messengers that control growth, differentiation, and the metabolism of specific target cells called?

- A. Hormones
- B. Neurons
- C. Glands
- D. Second messengers

11. How much air does an adult inhale in an average breath?

- A. 500 mL
- B. 750 mL
- C. 1000 mL
- D. 1250 mL

12. Which type of cell secretes antibodies?

- A. bacterial cell
- B. viral cell
- C. lymph cell
- D. plasma cells

13. Which force motivates filtration in the kidneys?

- A. osmosis
- B. smooth muscle contraction
- C. peristalsis
- D. blood pressure