

Tissue Types and Functions in the Human Body

Biology · Answer Key · 20 Questions

1. What is the primary function of connective tissue?

- A) To transmit nerve impulses
- B) To connect different tissues and organs**
- C) To form glands and cover surfaces
- D) To contract and produce movement

2. Which type of fiber in connective tissue provides strength and support?

- A) Elastic fibers
- B) Reticular fibers
- C) Collagen fibers**
- D) All of the above

3. What is the most abundant and widely distributed tissue system in the body?

- A) Epithelial tissue
- B) Nervous tissue
- C) Connective tissue**
- D) Muscle tissue

4. What are the two main components of connective tissue?

- A) Neurons and glial cells
- B) Epithelial cells and basement membrane
- C) Fibers and ground substance**
- D) Muscle fibers and sarcomeres

5. Which type of connective tissue stores fat for future use?

- A) Areolar connective tissue
- B) Adipose connective tissue**
- C) Reticular connective tissue
- D) Dense connective tissue

6. What is the main function of nervous tissue?

- A) To store energy
- B) To receive and transmit nerve impulses**
- C) To provide shape and support
- D) To secrete hormones

7. Nervous tissue is made up of which two types of cells?

- A) Fibroblasts and adipocytes
- B) Neurons and neuroglial cells**
- C) Epithelial cells and goblet cells
- D) Chondrocytes and osteocytes

8. What part of a neuron transmits impulses away from the cell body?

- A) Dendrite
- B) Axon**
- C) Cell body
- D) Nucleus

9. What is the function of neuroglial cells?

- A) To receive sensory information
- B) To support, protect, and nourish neurons**
- C) To produce movement
- D) To absorb nutrients

10. Epithelial tissue is also known as:

- A) Connective tissue
- B) Nervous tissue
- C) Epithelium**
- D) Muscle tissue

11. Where is epithelial tissue found in the body?

- A) Deep within organs
- B) Connecting bones
- C) Covering body surfaces, lining cavities, and forming glands**
- D) Within blood vessels only

12. Epithelial tissues are classified into two major types based on cell layers. What are they?

- A) Simple and complex
- B) Loose and dense
- C) Areolar and adipose
- D) Simple and stratified**

13. Which type of epithelial tissue consists of a single layer of cube-shaped cells?

- A) Simple squamous epithelium
- B) Simple columnar epithelium
- C) Simple cuboidal epithelium**
- D) Stratified squamous epithelium

14. Where is simple cuboidal epithelium primarily found?

- A) Lining the heart and blood vessels**
- B) Lining kidney tubules and glands
- C) Lining the digestive tract
- D) The skin

15. Which type of epithelial tissue has a single layer of flat cells arranged on a basement membrane?

- A) Simple cuboidal epithelium
- B) Simple columnar epithelium
- C) Simple squamous epithelium**
- D) Stratified cuboidal epithelium

16. What is the primary function of simple squamous epithelium?

- A) Protection and secretion
- B) Absorption and filtration**
- C) Contraction and movement
- D) Nerve impulse transmission

17. Which type of epithelial tissue consists of several layers of rectangular-shaped cells?

- A) Simple columnar epithelium
- B) Stratified cuboidal epithelium
- C) Stratified squamous epithelium
- D) Stratified columnar epithelium**

18. Where is stratified squamous epithelium typically found?

- A) Lining kidney tubules**
- B) Lining the digestive tract
- C) Skin, mouth, and throat
- D) Glands and ducts

19. What is a key function of epithelial tissue related to protection?

- A) Producing movement
- B) Transmitting nerve impulses
- C) Collecting sensory information
- D) Protecting underlying tissues from injury**

20. Which function of epithelial tissue involves the elimination of waste products?

- A) Secretion
- B) Absorption
- C) Excretion**
- D) Protection