

Class 9th Tissue

1. Which of the following is a simple permanent tissue in plants?
 - a) Xylem
 - b) Phloem
 - c) Parenchyma
 - d) Cambium
2. Which tissue in plants is responsible for the transport of water?
 - a) Phloem
 - b) Xylem
 - c) Parenchyma
 - d) Collenchyma
3. Xylem consists of all the following elements except:
 - a) Tracheids
 - b) Vessels
 - c) Sieve tubes
 - d) Xylem parenchyma
4. Which plant tissue provides mechanical support and flexibility?
 - a) Parenchyma
 - b) Collenchyma
 - c) Xylem
 - d) Phloem
5. The main function of phloem in plants is:
 - a) Transport of water
 - b) Transport of food
 - c) Providing support
 - d) Preventing water loss
6. Which type of meristematic tissue is found at the tips of roots and shoots?
 - a) Apical meristem
 - b) Lateral meristem
 - c) Intercalary meristem
 - d) Epidermis
7. Which of the following plant tissues has dead cells?
 - a) Parenchyma
 - b) Collenchyma
 - c) Sclerenchyma
 - d) Phloem
8. Which plant tissue is responsible for secondary growth?
 - a) Parenchyma
 - b) Cambium
 - c) Epidermis
 - d) Collenchyma
9. Which among the following is a protective tissue in plants?
 - a) Xylem
 - b) Phloem

- c) Epidermis
 - d) Sclerenchyma
10. Which plant tissue stores food and nutrients?
- a) Xylem
 - b) Phloem
 - c) Parenchyma
 - d) Sclerenchyma
11. Which of the following is an example of connective tissue?
- a) Muscle
 - b) Nerve
 - c) Bone
 - d) Skin
12. The basic unit of nervous tissue is:
- a) Axon
 - b) Neuron
 - c) Dendrite
 - d) Synapse
13. Which tissue connects muscles to bones in animals?
- a) Ligament
 - b) Tendon
 - c) Cartilage
 - d) Bone
14. Which muscle tissue is involuntary and found in internal organs?
- a) Skeletal muscle
 - b) Smooth muscle
 - c) Cardiac muscle
 - d) None of these
15. Which type of epithelial tissue is found in the lining of blood vessels?
- a) Cuboidal epithelium
 - b) Columnar epithelium
 - c) Squamous epithelium
 - d) Ciliated epithelium
16. Which connective tissue acts as a shock absorber in joints?
- a) Ligament
 - b) Cartilage
 - c) Bone
 - d) Blood
17. Which tissue helps in the movement of the body?
- a) Connective tissue
 - b) Muscular tissue
 - c) Nervous tissue
 - d) Epithelial tissue
18. Which type of muscle is found only in the heart?
- a) Skeletal muscle
 - b) Smooth muscle

- c) Cardiac muscle
 - d) Voluntary muscle
19. Which of the following is a liquid connective tissue?
- a) Bone
 - b) Cartilage
 - c) Blood
 - d) Ligament
20. Which part of a neuron receives signals?
- a) Axon
 - b) Dendrites
 - c) Synapse
 - d) Myelin sheath

Answers Key:

- 1. c) Parenchyma
- 2. b) Xylem
- 3. c) Sieve tubes
- 4. b) Collenchyma
- 5. b) Transport of food
- 6. a) Apical meristem
- 7. c) Sclerenchyma
- 8. b) Cambium
- 9. c) Epidermis
- 10. c) Parenchyma
- 11. c) Bone
- 12. b) Neuron
- 13. b) Tendon
- 14. b) Smooth muscle
- 15. c) Squamous epithelium
- 16. b) Cartilage
- 17. b) Muscular tissue
- 18. c) Cardiac muscle
- 19. c) Blood
- 20. b) Dendrites

• **What is a tissue?**

Answer: A tissue is a group of similar cells that work together to perform a specific function.

• **What are the two main types of tissues in living organisms?**

Answer: The two main types of tissues are:

- **Plant tissues** (e.g., meristematic and permanent tissues)
- **Animal tissues** (e.g., epithelial, connective, muscular, and nervous tissues)

- **What is the function of xylem in plants?**

Answer: Xylem transports water and minerals from the roots to other parts of the plant. It also provides mechanical support.

- **What are the different types of simple permanent tissues in plants?**

Answer: The three types of simple permanent tissues are:

- **Parenchyma** (stores food and helps in photosynthesis)
- **Collenchyma** (provides flexibility and mechanical support)
- **Sclerenchyma** (provides strength and rigidity)

- **What is the function of phloem in plants?**

Answer: Phloem transports food (mainly sucrose) from the leaves to all parts of the plant.

- **What are the three types of muscle tissues in animals?**

Answer:

- **Skeletal muscle** (voluntary, attached to bones)
- **Smooth muscle** (involuntary, found in internal organs)
- **Cardiac muscle** (involuntary, found in the heart)

- **Which connective tissue connects bones to muscles and bones to bones?**

Answer:

- **Tendons** connect muscles to bones.
- **Ligaments** connect bones to bones.

- **What is the function of epithelial tissue?**

Answer: Epithelial tissue covers and protects body surfaces, lines organs, and helps in absorption, secretion, and sensation.

- **What is the role of nervous tissue in animals?**

Answer: Nervous tissue transmits signals between the brain, spinal cord, and other parts of the body, helping in coordination and response.

- **What is the function of meristematic tissue in plants?**

Answer: Meristematic tissue is responsible for plant growth. It contains actively dividing cells and is found in root tips, shoot tips, and between vascular tissues (cambium).