Rajasthan Board

Class 9 | Science

QUIZ-01



CHAPTER-6 | Tissues

1.	Which plant tissue is responsible for growth at the			
	tips of roots and shoots?			
	A. Collenchyma	B. Apical meristem	1	
	C. Phloem	D. Xylem	(B)	
E	Explanation • Anical meristem is located at the tips of			

Explanation: Apical meristem is located at the tips of roots and shoots and helps in increasing their length.

2. Which permanent tissue provides flexibility to plants?

A. Parenchyma

B. Collenchyma

C. Sclerenchyma

D. Xylem (B)

Explanation: Collenchyma has living cells with irregularly thickened walls, providing flexibility to parts like tendrils and stems.

3. Which plant tissue is made of dead cells with very thick lignified walls?

A. Parenchyma

B. Collenchyma

C. Sclerenchyma

D. Xylem parenchyma

(C)

Explanation: Sclerenchyma consists of dead cells with very thick lignin-rich walls, making the plant hard and stiff.

4. What is the function of guard cells in leaves?

A. Transport food

B. Provide mechanical support

C. Control opening and closing of stomata

D. Store starch (C)

Explanation: Guard cells surround stomata and regulate gas exchange and transpiration by opening and closing them.

5. Which type of connective tissue connects bones to muscles?

A. Ligament

B. Areolar tissue

C. Tendon

D. Cartilage (C)

Explanation: Tendons connect muscles to bones and are strong but have limited flexibility.

6. Which muscle tissue is involuntary and has spindleshaped cells?

A. Striated muscle

B. Cardiac muscle

C. Smooth muscle

D. Skeletal muscle

(C)

Explanation: Smooth muscles are involuntary and spindle-shaped, found in internal organs like the digestive tract.

7. Which connective tissue stores fat in the human body?

A. Cartilage

B. Adipose tissue

C. Areolar tissue

D. Bone

(B)

Explanation: Adipose tissue contains fat-filled cells and acts as an energy reservoir and insulator.

8. What type of epithelial tissue is found lining blood vessels?

A. Columnar

B. Squamous

C. Cuboidal

D. Stratified squamous

(B)

Explanation: Simple squamous epithelium is thin and flat, allowing easy diffusion, suitable for blood vessels.

9. Which connective tissue has a fluid matrix called plasma?

A. Bone

B. Cartilage

C. Ligament

D. Blood

(D)

Explanation: Blood has a fluid matrix (plasma) and transports substances like oxygen and hormones.

10. What is the function of xylem in plants?

A. Transport food

B. Store fats

C. Transport water and minerals

D. Photosynthesis

10

Explanation: Xylem consists of vessels and tracheids that transport water and minerals from roots to other parts of the plant.