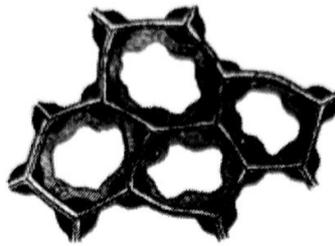


1. Which of the following meristems helps to increase girth of the stem?  
 (a) Apical meristem (b) Lateral meristem  
 (c) Intercalary meristem (d) Vertical meristem
2. Parenchyma cells containing air cavities are called  
 (a) aerenchyma (b) sclerenchyma (c) chlorenchyma (d) parenchyma.
3. The husk of coconut is made up of  
 (a) collenchyma tissue (b) parenchyma tissue  
 (c) aerenchyma tissue (d) sclerenchyma tissue.
4. Which of the following statements regarding apical meristem is incorrect?  
 (a) It brings about increase in length of the root and stem.  
 (b) It develops by differentiation of permanent tissues.  
 (c) It constitutes primary meristem.  
 (d) None of these
5. The tissue shown in the given figure is



- (a) collenchyma, in which wall thickenings are present at the angles.
- (b) sclerenchyma, in which uniform wall thickenings are present.
- (c) xylem fibres with narrow central lumen.
- (d) phloem parenchyma with abundant food reserve.
6. Which of the following statements is correct regarding protective tissue, epidermis?  
 (a) In desert plants, epidermis has a waxy coating of cutin on its outer surface to reduce transpiration.  
 (b) The epidermis of the leaf contains small pores called stomata that help in the exchange of gases.  
 (c) The epidermis of the root contains long hair-like structure that help to increase surface area for absorption of water.  
 (d) All of these
7. Cardiac muscles are  
 (a) smooth, spindle shaped and involuntary (b) striated, syncytial and involuntary  
 (c) striated, syncytial and voluntary (d) striated, cross-connected and involuntary.
8. Read the following statements.  
 (i) It forms a thick barrier and protects the underlying tissues in the skin.  
 (ii) It is present in the sense organs and helps to receive various stimuli from the atmosphere.  
 (iii) It is present in glands and helps in secretion.  
 (iv) It also helps in absorption of nutrients.  
 Which one of the following exhibits the above mentioned functions?  
 (a) Epithelial tissue (b) Connective tissue  
 (c) Muscular tissue (d) Nervous tissue

9. Girth of stem increases due to  
(a) apical meristem (b) lateral meristem  
(c) intercalary meristem (d) vertical meristem.
10. A person met with an accident in which two long bones of hand were dislocated. Which among the following may be the possible reason?  
(a) Tendon break (b) Break of skeletal muscle  
(c) Ligament break (d) Areolar tissue break
11. Select the incorrect sentence.  
(a) Blood has matrix containing proteins, salts and hormones.  
(b) Two bones are connected with ligament.  
(c) Tendons are non-fibrous tissue and fragile.  
(d) Cartilage is a form of connective tissue.
12. Which of the following cells is found in the cartilaginous tissue of the body?  
(a) Mast cells (b) Basophils (c) Osteocytes (d) Chondrocytes
13. Which of the following does not lose their nucleus at maturity?  
(a) Companion cells (b) Red blood cells (c) Vessel (d) Sieve tube cells
14. If the tip of sugarcane plant is removed from the field, even then it keeps on growing in length. It is due to the presence of  
(a) cambium (b) apical meristem (c) lateral meristem (d) intercalary meristem.
15. Flexibility in plants is due to  
(a) collenchyma (b) sclerenchyma (c) parenchyma (d) chlorenchyma.
16. Choose the wrong statement.  
(a) The nature of matrix differs according to the function of the tissue.  
(b) Fats are stored below the skin and in between the internal organs.  
(c) Epithelial tissues have intercellular spaces between them.  
(d) Cells of striated muscles are multinucleate and unbranched.

**Assertion-Reason Codes:**

- (a) If both Assertion and Reason are true and Reason is the correct explanation of Assertion.  
(b) If both Assertion and Reason are true and Reason is not the correct explanation of Assertion.  
(c) If Assertion is true but Reason is false.  
(d) If both Assertion and Reason are false.
17. Assertion: The combination of nerve and muscle tissue enable animals to move rapidly in response to stimuli.  
Reason: The cells of both nerve and muscle tissue are highly specialized for being stimulated and transmitting stimulus from one place to another in the body.
18. Assertion: Surface of skin is impervious to water.  
Reason: Surface of skin is covered by stratified cuboidal epithelium.
19. Assertion: The inner lining of intestine has tall epithelial cells.  
Reason: Columnar epithelium facilitates absorption and secretion.
20. Assertion: Parenchyma and collenchyma tissues act as mechanical tissue to plants.  
Reason: They form an important part of the bark of trees.
21. Assertion: Intercalated discs are important regions of cardiac muscle cells.  
Reason: Intercalated discs function as boosters for muscle contraction waves.