

Time : 1 hour 30 Minute

STD 9 Science
Chapter Based Test

Total Marks : 50

section A

* Choose the correct option from the given options [7]

1. A group of similar cells with the same functions and origin is called _____?
(A) Organ (B) Organelle (C) Tissue (D) Organ system
2. The term tissue was given by:
(A) Robert Hooke (B) Mayer (C) Bichat (D) Leeuwenhoek
3. In the stratified epithelium, the basement membrane is in contact with:
(A) The uppermost layer of cells. (B) The second layer of cells from base. (C) The second layer of cells from the top. (D) The basal most layer of cells.
4. Haversian canals are present in:
(A) Cartilage. (B) Ligament. (C) Bone. (D) Tendon.
5. Collenchyma mainly forms _____.
(A) Hypodermis (B) Epidermis (C) Phloem (D) Inner cortex
6. Stomata are enclosed by:
(A) Guard cells (B) Stomatal cells (C) Tissues (D) Capsules
7. Presence of which tissue made it possible for survival of plants in terrestrial environment?
(A) Protective tissue. (B) Parenchymatous tissue. (C) Permanent tissue. (D) Conducting tissue.

* Fill in the blank with correct answer [3]

8. Fill in the blanks.
Husk of coconut is made of _____.
9. Fill in the blanks.
Cork cells possesses _____ on their walls that makes it impervious to gases and water.
10. A nerve impulse passes from one neuron to another across a _____.

* Do as directed [3]

11. Which type of tissues are more common in plants.
12. Which type of WBC is most abundant in lymph?
13. What is the function of companion cells?

section B

*** Answer the Questions in brief**

[10]

1. What types of functions does the single cell of multicellular organism perform?
2. Name the protein is found in white fibre and yellow fibre.
3. Specify any two parts of the plant, where these tissues are present.
4. What is the function of meristematic tissues (meristem)?
5. Name the type of muscles that accomplish peristalsis.

section C

*** Answer the Questions in detail**

[12]

1. The functional combination of nerve and muscle tissue is fundamental to most animals. Comment.
2. What is neuron? Define it?
3. Why is blood called a connective tissue?
4. What is muscular tissue? Describe structure and function of striated muscle fibres.

section D

*** Answer the Questions in detail [5 marks each]**

[15]

1. What do you know about complex tissue Classify and explain its different types in plants with suitable diagrams.
2. Differentiate between sclerenchyma and parenchyma tissue. Draw well labelled diagram.
3. What will happen if:
 - a. Apical meristem is damaged or cut?
 - b. Cork is not formed in older stems and roots.
 - c. Lymph is not returned to blood?

॥ ज्ञानं एव श्रमस्य पुंजः ॥