

BRAIN INTERNATIONAL SCHOOL

Biology Assignment

Class: IX

OCT'24

CHAPTER 6: TISSUES

1. MULTIPLE CHOICE QUESTIONS :

1. Write the name of permanent tissue which has chlorophyll?
(a) Sclerenchyma (b) Chlorenchyma (c) Aerenchyma (d)None of these
2. Which cell does not have perforated cell wall?
(a) Tracheids (b) Companion cells (c) Sieve tubes (d) Vessels
3. A person met with an accident in which two long bones of the 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

2. This question consists of two statements-ASSERTION (A) and REASON(R), answer the question selecting the appropriate option given below

- a) Both A and R are true and R is the correct explanation for A
- b) Both A and R are true and R is not the correct explanation for A
- c) A is true but R is false
- d) A is false but R is true

ASSERTION (A): Compound epithelium covers surface exposed to mechanical or chemical abrasions.

REASON(R): Protection of underlying tissues is the major function of simple epithelium.

3. Read the following paragraph and answer the following questions :

In simple terms, tissue can be defined as a group of cells with similar shape and function are termed as tissues. They form a cellular organizational level, intermediate between the cells and organ system. Organs are then created by combining the functional groups of tissues. The study of tissue is known as histology and study of disease-related to tissue is known as histopathology. The standard tools for studying tissues is by embedding and sectioning using the paraffin block. Animal tissues are grouped into four types:

#Connective Tissue #Muscle Tissue #Nervous Tissue #Epithelial Tissue

The collection of tissues are joined in structural units to serve a standard function of organs. The primary purpose of these four types of tissue differs depending on the type of organism. For example, the origin of the cells comprising a particular tissue type also differs.

- (i) Intestine absorbs the digested food materials. What type of epithelial cells are responsible for that?
- (a) Stratified squamous epithelium (b) Columnar epithelium
(c) Spindle fibres (d) Cuboidal epithelium
- (ii) While doing work and running, you move your organs Like hands, legs etc. Which among the following is correct?
- (a) Smooth muscles contract and pull the ligament to move the bones.
(b) Smooth muscles contract and pull the tendons to move the bones.
(c) Skeletal muscles contract and pull the ligament to move the bones.
(d) Skeletal muscles contract and pull the tendon to move the bones.
- (iii) Select the incorrect sentence.
- (a) Blood has a matrix containing proteins, salts and hormones
(b) Two bones are connected by ligament
(c) Tendons are non-fibrous tissue and fragile
(d) Cartilage is a form of connective tissue
- (iv) Which tissue is called loose connective tissue?
- (v) Draw a neat labeled diagram of nervous tissue.

4. Answer the following questions :

1. Identify the types of tissue in the following: skin ,bark of tree, bone, lining of kidney tubule and vascular bundle .
2. Draw well labeled diagrams of various types of muscles found in human body .
3. State the features of cardiac muscle which makes it unique .
4. The tissue is under the control of a will .What is this type of tissue called? Name it .
5. Write the difference between ligament and tendon.