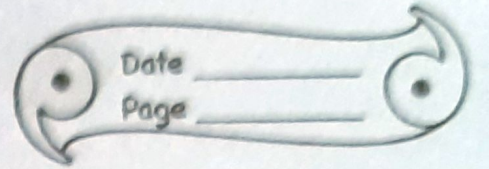


HW

8/7/2021

TISSUES



1. Define the term "tissue".

Group of cells that are similar in structure & perform same function is called a tissue.

2. How many types of elements together make up the xylem tissue?
Name them.

The xylem is made up of vessels, tracheids, xylem fibers & xylem parenchyma.

Q5. What are the functions of stomata?

The outermost layer of the cell is called epidermis and is very porous. These pores are called stomata. These stomata help in transpiration.

7. What is the specific function of the cardiac muscle?

- i) Cardiac muscles cells are cylindrical, branched & uninucleated.
- ii) They are involuntary muscles
- iii) They show rhythmically contraction & relaxation throughout life.
- iv) Their rhythmic contraction & relaxation helps in pumping action of heart.

8. Differentiate between striated, unstriated & cardiac muscles on the basis of their structure & location in the body.

1. Shape

⇒ Striated muscle :- Cells are long cylindrical, non tapering & are unbranched.

⇒ Smooth Muscles

Cells are long with tapering ends and are unbranched.

⇒ Cardiac Muscle

Cells are non tapering & cylindrical in shape & are branched.

2. Location in body :-

Striated muscles → In hands, leg & skeletal muscles.

Unstriated ~~the~~ muscles → The wall of stomach, intestine, ureter & bronchi etc.

Cardiac muscle → In heart

3. Light & dark bands :-

Straited muscle → Present

Unstraited muscle → Absent

Cardiac Muscle → Present but less prominent

10. i) Tissue that forms the inner lining of our mouth.

Ans → Squamous epithelium

ii) Tissue that connect muscle to bone in humans.

Ans - Tendons

iii) Tissue that trans-ports food in plants.

Ans - Phloem

iv) Tissue that is found in our body.

Ans. Areolar tissue

v) Connective tissue with a fluid matrix.

Ans - Blood

vi) ~~Nervous tissue~~ Tissue present in the brain

Ans -> Nervous tissue

11. Identify the type of tissue in the following: Skin, bark of tree, bone, lining of kidney tubule, vascular bundle.

a) Skin - Stratified squamous epithelium

b) Bark of tree - Cork protective tissue

c) Bone - Connective tissue

d) Lining of kidney tubule - Cuboidal epithelium tissue

12. Name the regions in which parenchyma tissue is present.

~~In the pith of the roots~~ In the pith of the roots and stems - when it contains chlorophyll, its

called chlorenchyma, found in
green leaves. In aquatic plants,
parenchyma contains large air
cavities & help them to float