

## TISSUES

- (i) Tissue is a group of cells similar in structure and function.
- (ii) Tissues can be wassified into plant and animal tissues.

## PLANT TISSUES

- (i) Plant tissues are of two main types. They are mountstematic and permanent tissues.
- (ii) Manisternatic tissues are dividing tissues present in the growing regions of the plant.
- (iii) Apical meristem plays a vital role in the primary growth of the plants. It increases the length of the plant while lateral meristem increases the diameter on thickness of the plant. It plays a vital role during secondary growth in dicot plants.
- (iv) Permanent tissues are derived from meristen tissues when they lose the ability to divide. They are classified as simple and complex tissues.
- (v) Parenchyma, collenchyma and sclerenchyma are three types of simple tissues. Xylem and Phloem are types of complex tissues.
- (vi) The outermost and protective layer of the plant cell is called epidermis.
- (vii) The small pones present in the epidermis of leaf our called stomata.
- (Viii) The grand cells, subsidiary cells and stomatal pore constitute stomatal apparatus.



(ix) Stomata regulate the exchange of gases and transpiration.

(x) Xylem is a water conducting tissue. It is made of sleve tubes, companion calls, phloam parenchyma and phloem scienes chyma.

## ANIMAL TISSUES

- (i) Animal tissues can be epithelial, connective, muscular and newous tissue.
- (ii) Depending upon the shape and function, epithalial tissue is classified as squamous, cuboidal, columnal, ciliated and glandular.

(iii) The different types of connective tissue in own body include areolax tissue, adipose tissue, bone, tendon, signment, cartilage and blood.

(iv) Bone is 170n-flexible connective tissue and forms the framework that supports the body. It is made of calcium and phosphonus compounds.

(V) Blood is a fluid connective tisque. The planma contains RBCs, WBCs, and platelets.

(vi) Striated, smooth and cardiac one three types of muscle tissues.

(Vii) Newvous tissue is made of newvons that receive and conduct impulses.

viii) Nerve smpulses pass between newtons through the synapse through newtotransmitter.



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