



LESSON 6 Tissues

roup of cells that similar in structure origin (come from me parent) and form same function called tissues





Content What are tissues ? Are plant and animal tissue same ?

- Which are plant tissues?
- Types of plant tissues.
- Which are animal tissues?
- Types of animal tissues?

















TYPE OF EPITHELIUM

of Epitheliur	n Structure I	Location	Function
nous T	hin , flat , irregular its likefloor tiles	Oesophagus, lining of the mouth, alveoli, lungs,	Protects the underlying tissue from injury, exchange of gas in lings
	Cuboidal round nucleus in the centre	Kidney tubules , ducts of salivary glands	It gives mechanical Strength, at times it folds and become glandular
	Tall pillar like placed side by side. Nucleus is placed near the base	Inner lining of respiratory track cells have cillia that push the mucus	Help in absorption secretion and excretion
	Flat cells arranged in many layers o prevent wear and tear of the parts	Skin, tongue, oesophagus and inner lining of the mouth	Protection wear and tear

Connective tissue

nnects various tissues in any organs nction Binding , supporting packing of organs of the body aracteristics ; Few cells loosely packed , large intercellular spaces filled with lly like substance called matrix.

d : has fluid matrix called plasma proteins, salts and hormones in h

WBC and platelets are lying. It sports food, gases, hormone and et to different parts of the body

ments n tendons connect bones. It elastic and has strength and very matrix. Elasic tendons connects cles to bones. They are less elastic

eolar : it fills space inside the organs. elps in tissue repairs. Found between kin d muscles, around blood vessels and ne marrow Bone gives support and anchors muscles. It is strong, non flexible. In which bone cells are embedded in a hard matrix made of Phosphorous and calcium.

Cartilage is hard elastic tissue softer than bone. Matrix is solid due to the presence of protein called chondrin it can bend where as bone cannot Adipose stores fat found below skin and internal organs

Muscular tissue

ction : It helps in movements of the body

contractile protein which bring expansion and contraction of the muscles and g Movements of the body







- Il of nervous tissues are called neurons Many nerve cells are bound by nnective tissue to make a nerve.
- nction : Highly specialised to pass stimuli from one place to another place in r body
- ntrols all activities of the body
- cation : Brain, spinal chord and nerves are made of nervous tissue ructure:
- star shaped body which is called cyton which has nucleus and cytoplasm single long part axon which carry message away from the cyton ort branched parts are called dendrites which carry information to cyton





Observation of features

(a) binary fission in Amoeba, and (b) budding in yeast and Hydra with the help of prepared slides.



Teaching Aids

Youtube Videos

PPT Youtube <u>https://www.youtube.com/watch?v=CIM2Tz5VFU4</u> tissues <u>https://www.youtube.com/watch?v=HUh8Whurs1A_Tissues</u>

NCERT Text Book

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