

Animal Tissue

The animal tissues can be divided into following categories—(i) Epithelial Tissue, (ii) Connective Tissue, (iii) Muscular Tissue, (iv) Nervous Tissue.

(i) Epithelial Tissue : Epithelial tissue cover the external surface of the body and internal free surface of many organs. Epithelial cell arranged very close to each other. There is no blood vessels supplying nourishment to epithelial cells. They receive nourishment from underlying connective tissue. The principle functions of epithelial tissues are covering and lining of free surface.

Example : skin, intestine, gland, hollow organ like fallopian tube, nasal passage bronchioles, trachea etc.

(ii) Connective Tissue : These tissue connect and bind different tissues or organs. It provides the structural frame work and mechanic support to body. It play role in body as defense tissue, repair fat storage etc.

Example : Adipose tissue found beneath the skin. Ligament made up of fibrous connective tissue. Cartilage, bone and blood.

Note : Blood is only tissue which is found in the form of fluid.

(iii) Muscular Tissue : This is known as contractile tissue. All the muscles of the body are made up of this tissue. Muscle tissue is of three types – (a) Unstriated, (b) Striated and (c) Cardiac

(a) Unstriated : This muscle tissue is found on the walls of those parts which do not controlled by will. These are called involuntary muscle, like – Alimentary canal, Rectum Ureter Blood vessels. Unstriated muscles control the motions of all those organs that move on their own.

(b) Striated : These muscles are found in the parts of the body that move voluntarily. Normally one or both the end of these muscles turn and connect with bones and tendons.

(c) Cardiac : These muscles are found only on the walls of the heart. The contraction and expansion of the heart is due to these muscles that move throughout the life without fail.

1. There are 639 muscles in the human body.
2. The largest muscle of the human body is Gluteus Maximus (muscle of the hip).
3. The smallest muscle of the human body is Stapedius.

(iv) Nervous Tissue : This tissue is also called sensitive tissue. The nervous systems of the organisms is made up of these tissues. This is made up of two specific cells – (a) Nerve cell or Neurons and (b) Neuroglia.

Nervous tissue controls all the voluntary & involuntary activities of the body.

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