

D4 -  
10.5.2021

## MUSCULAR TISSUE - Types, Function, Locations

- a) Striated - : Voluntary Muscles / Skeletal Muscles
- b) Unstriated - : Involuntary Muscles / Smooth muscles /  
Visceral Muscles
- c) Cardiac - : Heart Muscles

## Importance of Muscular Tissues

- It is made up of muscle fibres which are long cells. It allows ~~more~~ movements
- Cardiac muscles help in continuous contraction and relaxation of heart without getting fatigued.

## HOME ASSIGNMENT

1. Name the main types of muscular tissues. Give the location of each kind in animal body.

Ans: \* The main types of muscular tissues are skeletal, cardiac, visceral.

\* The location of each kind <sup>in</sup> animal tissue are:

- i) Skeletal tissue in skeleton
- ii) Cardiac tissue in heart
- iii) Visceral tissue in G.I. tract, uterus, eye, blood vessels, Digestive oesophagus.

2. What are involuntary muscles? where are they found?

Ans: Involuntary muscles are the muscles which contract without conscious control. The contraction is controlled by the autonomic nervous system. These are present in the walls of the digestive system, blood vessels, bronchi, ~~the~~ uterus, bladder, G.I. tract, eye,

3. Briefly describe striated and smooth muscles with their functions.

Ans: Striated Muscles:-

- Striated Muscles <sup>are</sup> also known as skeletal muscle. ~~It is attached to bone in~~ The muscles in our arm move only when <sup>we</sup> want. It means that, striated muscles, found attached to the bones. They are under the control of the will of an individual. These muscles constitute about 40% of the body weight. Common places to find such muscles are arms and legs, face, neck, etc.
- Its functions are it helps in movement and posture.

• Smooth Muscles:-

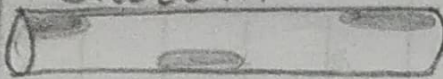
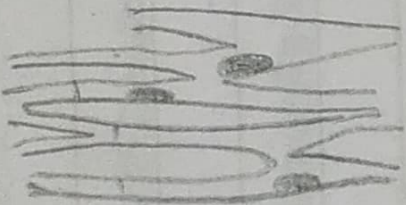

Smooth muscles are also known as unstriated muscles. They are not under control of one's will. ~~Smooth~~ Movements like passage of food in the alimentary ~~canal~~ canal, are caused by the contraction of the unstriated muscles in the intestinal walls. Such muscles are composed of slender, tapering cells. Muscles of the iris in the eye and those of the urinary bladder wall are also unstriated or smooth muscles.

→ Its function is to pump blood continuously.

4. List the differences between the different types of muscular tissues in a tabular form based on their appearance, structure, nucleus and functions.

Ans: Done in Page number - 34.

Three types of Muscular tissue

Diagram	Location	Function	Appearance	Control
<p>SKELETAL</p> 	Skeleton	movement, posture	Striated, multi-nucleated, fibers parallel	voluntary
<p>CARDIAC</p> 	<del>Heart</del> Heart	Pump blood continuously	Striated, one central nucleus Br	Involuntary
<p>VISCERAL (SMOOTH MUSCLE)</p> 	G.I. tract, uterus, eye, blood vessels, Digestive oesophagus	Peristalsis, blood pressure, Pupil size, erects hairs	No striations, one central nucleus	Involuntary