

Structural Joints and its Types

Table of Contents

- Structural Joint
- Types of Structural Joints
 - Fibrous Joints
 - Cartilaginous Joints
 - Synovial Joints
- Summary
- What's Next?

In the previous segment, we learned about **Functional joints and its types**. In this segment, we will learn about Structural joints and its types.

What is a Structural joint?

Structural joints are the joints that are classified based on the material filled in the cavity of these joints.

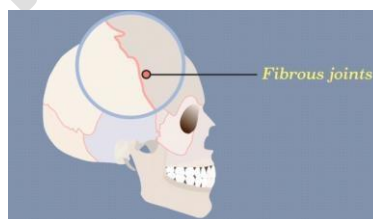
What are the Different types of structural joints?

There are three types of structural joints: Fibrous joints, cartilaginous joints, and synovial joints.

(i) What are Fibrous joints?

The fibrous joints are those where the joint structure is filled with **Fibrous Connective Tissue**. They are firmly held and unable to move.

For example, Joints in the cranium, joints between fibula and tibia etc.

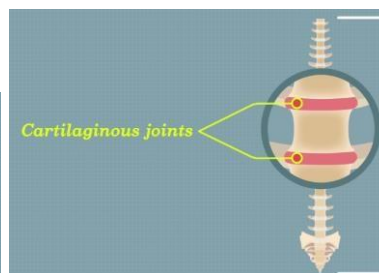
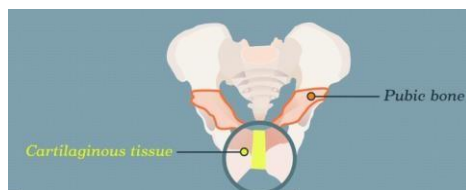


Fibrous joint

(ii) What are Cartilaginous joints?

Cartilaginous joints are those joints where **Cartilage** is present in the gap. They are flexible yet firm joints.

For example, The joints of the pubic bone of the hip bone, the joints in the vertebral column.



Cartilaginous joints

(iii) What are Synovial joints?

Synovial joints are filled with **Synovial Fluid**. This gives them more flexibility and thus, they can move freely and efficiently. They are further divided into six subtypes: Pivot joint, Saddle joint, Condylar joint, Plane joint, Hinge joint and the Ball and socket joint.

For example, the joints of the carpal bones in the wrist.

Summary

Structural Joint	Category of joints which are classified based on the material present between the joints.
Different Types of Structural Joints	
Fibrous Joints	The joint structure is filled with fibrous connective tissue.
Cartilaginous Joints	Joints where cartilage is present in the gap.
Synovial Joints	<ul style="list-style-type: none"> ● Joints filled with synovial fluid ● Six subtypes: <ul style="list-style-type: none"> - Pivot joint - Saddle joint - Condylar joint - Plane joint - Hinge joint - Ball and socket joint.

What's next?

In the next segment of Class 6 Science, we will learn about **The types of synovial joints**.