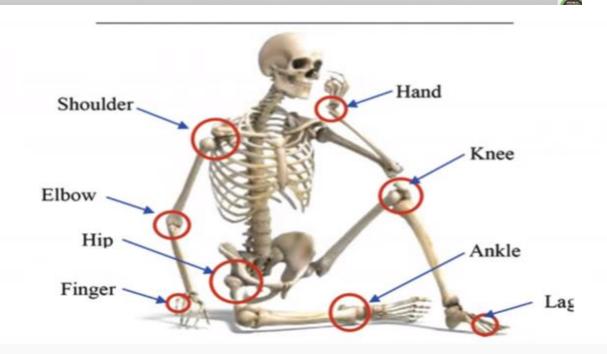
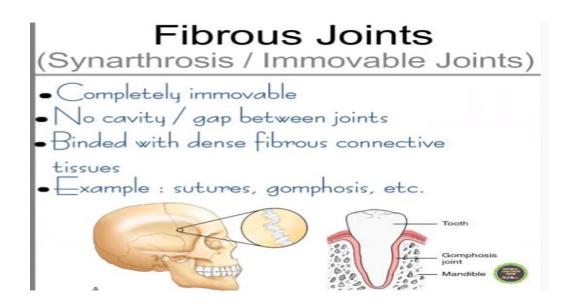
The point where two or more bones or cartilages meet/join together is called a JOINT.



Joints are mainly classified on two basis - **STRUCTURE** and **FUNCTION** (mobility).

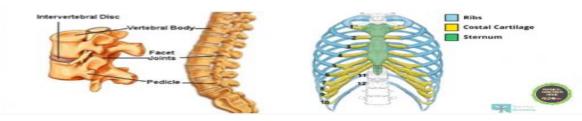
- (1) Fibrous Joints
- (2) Cartilagenous Joints
- (3) Synovial Joints



Cartilagenous Joints

(Amphiarthrosis / Slightly Movable Joints)

- Little bit movement is possible
- Minor pesence of cavity / gap between joints
- · Binded with cartilages
- Example : vertebral column, rib cage, etc.



(Diarthrosis / Freely Movable Joints)

- Comparatively more cavity / space between joints
- Synovial Fluid is present between two joints
- Degree of Freedom is maximum
- Subdivided into 6 categories
- (1) Hinge Joint
- (2) Pivot Joint
- (3) Ball and Socket Joint
- (4) Saddle Joint
- (5) Ellipsoid Joint / Condyloid Joint
- (6) Plane Joint / Gliding Joint



Synovial Joints

(Diarthrosis / Freely Movable Joints)

(1) Hinge Joint

- It is a uniaxial joint
- Example : elbow joint, knee joint, finger joint (interphallengial joints)





(Diarthrosis / Freely Movable Joints)

(1) Hinge Joint

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- Example : elbow joint, knee joint, finger joint (interphallengial joints)





Synovial Joints

(Diarthrosis / Freely Movable Joints)

(2) Pivot Joint

- allows Rotating motion
- Example: neck joint (between top 2 cervical bones), radio-ulnar joint (forearm)





(Diarthrosis / Freely Movable Joints)

(3) Ball and Socket Joint

- allows Maximum freedom
- it is a Multi-Axial joint
- Example : shoulder joint, hip joint



Synovial Joints

(Diarthrosis / Freely Movable Joints)

(4) Saddle Joint

- joint between Concave and Convex bones
- Example : Thumb (joint between carpel

and metacarpel bone)

It is biaxial joint







(Diarthrosis / Freely Movable Joints)

(5) Ellipsoid/Condyloid Joint

It is biaxial joint





Synovial Joints

(Diarthrosis / Freely Movable Joints)

(6) Plane/Gliding Joint

· surface is plane at the bone ends

