

# Viva Voce – Joints of Upper Limb

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### 1. What type of joint is the sternoclavicular joint?

? Saddle-type synovial joint (functionally ball-and-socket).

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### 2. Why is the sternoclavicular joint rarely dislocated?

Because it has **strong ligaments** (costoclavicular, interclavicular) and a **fibrocartilaginous disc** that divides the cavity and stabilizes movement.

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### 3. What is the function of the costoclavicular ligament?

It is the **chief stabilizing ligament** of the sternoclavicular joint; limits elevation of clavicle.

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### 4. What is the type of acromioclavicular joint?

Plane synovial joint with limited gliding movement.

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### 5. Name the two parts of coracoclavicular ligament.

**Conoid** (medial) and **Trapezoid** (lateral).

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## 6. What forms the coracoacromial arch?

Coracoid process + acromion + coracoacromial ligament.

? *Function:* Prevents superior dislocation of humeral head.

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## 7. What type of joint is the shoulder (glenohumeral) joint?

Ball-and-socket synovial joint.

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## 8. What are the bones forming the shoulder joint?

Head of humerus and glenoid cavity of scapula.

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## 9. What deepens the glenoid cavity?

Fibrocartilaginous **glenoid labrum**.

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## 10. Which muscles form the rotator cuff?

**SITS:** Supraspinatus, Infraspinatus, Teres minor, Subscapularis.

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## 11. Which muscle initiates abduction of shoulder?

**Supraspinatus** – first 15°.

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## 12. What muscle is the chief abductor of shoulder?

Deltoid (middle fibres).

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## 13. What movement occurs at the shoulder joint during throwing?

Combination of **flexion, extension, abduction, rotation, and circumduction.**

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## 14. Which nerve is injured in shoulder dislocation?

**Axillary nerve.** ? paralysis of deltoid, sensory loss over regimental badge area.

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## 15. What are the factors maintaining stability of the shoulder joint?

- Rotator cuff muscles.
  - Coracoacromial arch.
  - Glenoid labrum.
  - Long head of biceps tendon.
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## 16. What is the type of elbow joint?

Complex hinge-type synovial joint.

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### 17. What are the articulations forming the elbow joint?

- Humeroulnar (trochlea–trochlear notch)
  - Humeroradial (capitulum–head of radius)
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### 18. Name the main ligaments of elbow joint.

Ulnar collateral, radial collateral, annular ligament of radius.

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### 19. What is the carrying angle?

Angle between long axis of humerus and forearm when elbow extended ? **10–15° (M), 15–20° (F).**

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### 20. What is the significance of carrying angle?

Keeps forearm clear of hips during walking; aids in bringing hand to mouth.

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### 21. Name the muscles producing flexion and extension of elbow.

- **Flexion:** Biceps, Brachialis, Brachioradialis.
  - **Extension:** Triceps, Anconeus.
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## 22. What is the axis of supination and pronation?

Line through **head of radius (above)** and **head of ulna (below)**.

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## 23. What type of joint is the superior radioulnar joint?

Pivot-type synovial joint.

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## 24. What ligament holds the head of radius in position?

**Annular ligament** of radius.

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## 25. What is the direction of fibres of interosseous membrane?

Downward and medially from radius to ulna.

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## 26. What is the function of interosseous membrane?

- Connects radius and ulna.
  - Provides muscle attachment.
  - Transmits forces from radius to ulna.
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## 27. What type of joint is the wrist (radiocarpal) joint?

Ellipsoid (condyloid) synovial joint.

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### 28. Which bones take part in the wrist joint?

Distal radius + articular disc (above), Scaphoid, Lunate, Triquetral (below).

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### 29. What are the chief ligaments of the wrist joint?

Palmar radiocarpal, dorsal radiocarpal, radial and ulnar collaterals.

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### 30. What movements occur at wrist joint?

Flexion, extension, abduction (radial deviation), adduction (ulnar deviation), and circumduction.

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### 31. Which carpal bone is most commonly fractured?

**Scaphoid** ? tenderness in anatomical snuffbox.

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### 32. What type of joint is the 1st carpometacarpal joint (thumb)?

Saddle-type synovial joint.

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### 33. What movements are possible at the 1st CMC joint?

Flexion, extension, abduction, adduction, opposition, reposition.

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**34. What is the muscle responsible for opposition of thumb?**

**Opponens pollicis.**

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**35. What is the functional importance of the thumb joint?**

Allows **precision grip** and **fine manipulation**.

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**36. What type of joint is the MCP joint?**

Condyloid (ellipsoid) synovial joint.

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**37. What movements are possible at MCP joint?**

Flexion, extension, abduction, adduction, and limited circumduction.

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**38. What type of joint is the interphalangeal (IP) joint?**

Hinge-type synovial joint ? flexion and extension only.

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**39. What prevents hyperextension at MCP and IP joints?**

**Palmar (volar) plate.**

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#### 40. Which muscles flex and extend the fingers?

- **Flexors:** FDS (PIP), FDP (DIP).
  - **Extensors:** EDC, lumbricals, interossei.
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#### 41. What is the middle finger's role in hand movement?

Acts as **axis for abduction and adduction**; can abduct both sides but cannot adduct.

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#### 42. What is Mallet finger?

Avulsion or rupture of **extensor tendon** at DIP joint ? drooping of fingertip.

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#### 43. What is Boutonnière deformity?

Flexion of PIP + hyperextension of DIP due to rupture of **central slip of extensor tendon**.

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#### 44. What is Swan-neck deformity?

Hyperextension of PIP + flexion of DIP ? seen in **rheumatoid arthritis**.

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#### 45. What is Dupuytren's contracture?

Fibrosis of **palmar fascia** ? flexion deformity of ring and little fingers.

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#### 46. What is “trigger finger”?

Thickening of flexor tendon sheath ? finger locks during flexion and releases with a snap.

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#### 47. What is a “pulled elbow”?

Subluxation of **radial head** from annular ligament (common in children).

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#### 48. What is “tennis elbow”?

Inflammation of **common extensor origin (ECRB)** at lateral epicondyle.

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#### 49. What is “golfer’s elbow”?

Inflammation of **common flexor origin** at medial epicondyle.

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#### 50. What are the clinical deformities seen in rheumatoid arthritis of hand?

- Swan-neck deformity
  - Boutonnière deformity
  - Ulnar deviation at MCP joints
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#### ? Summary Insight

The joints of the upper limb are designed for **maximum movement and functional precision** — each stabilized by unique ligament–muscle systems.

In viva, emphasize **joint type, bones involved, movements, and key ligaments**

along with **common clinical correlations**.