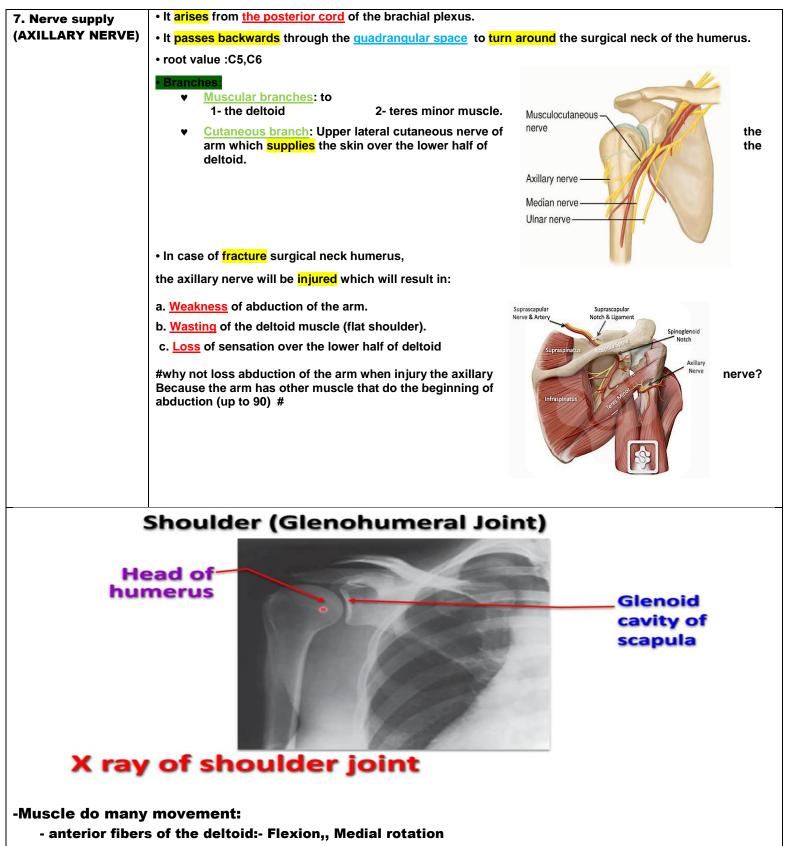
From where	SHOULDER JOINT				
1. Type of joint.	▼ Synovial				
	♥ Polyaxia! Free movment				
	(head of the humerus)				
	▼ Socket According to the shape				
	(the glenoid				
	cavity of the				
	scapula)				
2. Articular surfaces.	a)Head of <u>humerus</u> b)Glenoid cavity of <u>scapul</u> a				
	- Each of the articular surfaces is covered by <u>hyaline</u> • hyaline cartilage.				
	cartilage. - The glenoid cavity is deepened by <u>labrum glenoidal.</u>				
	&what is the labrum glenoidal?				
	a fibro-cartilaginous rim&				
3. Capsule	Dif: (<mark>covers</mark> margins of articular surfaces). Consider the Fibres Bag				
	• Medially attached to the margins of the glenoid cavity outside the labrum glenoidal.				
	 Laterally is attached to the anatomical neck of the humerus, 				
	<u>except</u> inferiorly where it extends about 1 cm to the shaft.				
	Anatomical Neck Hoad of Hong head of beeps Atticular cartilage Genoidal brumers Anatomical Neck Hyaline Cartilage				
4.Synovial membrane	Dif: (lines the inner of the capsule).				
mempiane	-It lines all the structures inside the capsule of the shoulder joint <u>EXCEPT</u> the articular cartilage (hyaline cartilage)				
	-It <mark>forms</mark> a tubular sheath &what is the FUN of a tubular sheath ?around the tendon of long head of biceps& # called <u>intra-capsular</u> , <u>extra-synovial structure</u> #				
5. Ligaments related TO	1- False ligaments: Char/dif: be a part of something				
SHOULDER JOINT	EX:- glenohumeral ligaments (Thickenings of the Capsule):				
(humeral)	هي في الأصل Capsule ولكن حدث لها Thickening لذلك اعتبرت ligament				
	2- True ligaments: Connects the glenoid cavity of the scapula with humerus				
	1. Coraco-humeral ligament. Connects the coracoid process with humerus				
	2. Transverse humeral ligament: DIF: (bridges over the bicipital groove)				
	3. coracoacromial ligament:				
	Connects the coracoid process of scapula with acromion processs				
	 It protect the superior aspect of the joint It prevent superior displacement of head of humerus above the glenoid cavity 				
	 Ligament + coracoid process + acromion process = coracoacromial arch 				

Stability of	- The shoulder joint is an u	Instable joint	Rotate	or cuff muscles		
shoulder joint	_		Supra	spinatous muscle		
	@why the shoulder joint <u>u</u> 1- <mark>Small shallow</mark> glen					
	2- The capsule is <mark>lax</mark>		Subscapularis	nfraspinatous Teres minor muscle		
	3- The ligaments are	Neak Anterior shoulder Posterior shoulder				
	4- The inferior aspect not supported by muscle @					
	-The <u>stability</u> of shoulder joint depends on: 1- Rotator cuff of muscles <mark>adherent</mark> to the capsule of the joint					
	2- Glenoid labrum increase the depth of the cavity					
	3- Long head of biceps passes above the head of humerus intracapsular (Synovial membrane), <u>hence</u> prevents its upward displacement					
	4- Coracoacromial arch <u>\$FUN\$</u>					
	1- <mark>fo</mark>	1- forms the secondary socket of the joint				
	2- protect the joint from above 3- prevent the upward dislocation of the head of humerus 5- Long head of triceps plays an important role during abduction					
bursae related to the joint	From where	Subscapularis bursa	Subacromial bursa	Infraspinatus bursa		
	located	- Between The tendon of subscapularis and capsule	-lies between The Coracoacromial arch <mark>above</mark> and supraspinatus tendon and capsule below	Between the tendon of infraspinatus and capsule		
	Char	- It communicates with the joint cavity	- it continues downwards beneath the deltoid with subdeltoid bursa			
			- it is the largest synovial bursa in the body and facilitates the movement of supraspinatus tendon under the Coracoacromial arch			
			- it does <mark>not</mark> communicate with the joint cavity			
bursae related to the joint	Bursae related to shoulder joint Acromion processes Deltoid					
	Subdeltoid bursa Subdeltoid bursa					
	Coracoacromial ligament Subscapularis bursa					

Relation of the sholder joint	• Superio • Posterio • Inferior	rly:- Long head of triceps Axillary nerve terior circumflex humeral vessels
6. Movements and	-(from NS of su	rrounding MS)
muscles producing it:	movemenrt	Muscle
	flexion	 (muscle infront) ♥ anterior fibers of the deltoid ♥ pectoralis major ♥ coracobrachialis
		 short head of bicebs
	extension	(muscle in the back) ♥ Posterior fibers of the deltoid ♥ Teres major ♥ Latissimus dorsi
	abduction	 ✓ Eatissing dorsi ✓ From 0 to 15 by Supraspinatus muscle
		 From 15 to 90 by middle fibers of the deltoid More than 90 to 180 by 1- combined action of lower 5 digitations of serratus anterior muscle 2- trapezius
		After 90 degree of abduction - head of humerus is locked by Coracoacromial arch - the scapula rotates upward and lateral to raise the arm above the head
	adduction	By:
	Medial	By:
	rotation	
	Lateral	By:
	rotation	 Posterior fibers of the deltoid Infraspinatus Teres minor
	circumduction	 (happen in freely mobile joint) Include: ♥ Flexion ♥ Abduction ♥ Extension ♥ Adduction ♥ Done in succession



- Pectoralis major:- Flexion,, adduction,, Medial rotation
- Posterior fibers of the deltoid:- extension,, Lateral rotation
- Teres major:- extension,, adduction
- Latissimus dorsi:- extension,, adduction,, Medial rotation
- Infraspinatus:- adduction,, Lateral rotation
- Teres minor:- adduction,, Lateral rotation