Chapter 8: Articulations and Movement

I. Naming Joints

	A.		xplain three different ways joints are named:				
			·				
			·				
		3.	·				
II.	Cla	ass	ses of Joints				
	A.	Th	he structural classification of joints is based on:				
		1.	. The major type of the	nat			
		2.	. Presence or absence of a				
	В.	Th	he functional classification of joints is based on	the degree of			
		1.	. Synarthrosis means	_			
		2.	. Amphiarthrosis means				
		3.	. Diarthrosis means				
	C.	Fil	ibrous Joints				
		1.	The two bones are united by				
		2.	. They have cavity				
		3.	. They exhibit	movement			
		4.	. Sutures				
			a. What are sutures?				
	b. The tissue between the two bones is						
		c. What is a sutural ligament composed of?					
			d. What are fontanels?				
			Fontanels make	&			
			e. What forms a synostosis?				
		5.	. Syndesmosis				
			a. The bones aret	han in a suture			
			b. The bones are joined by				
		c. How much movement occurs at a syndesmosis?					

	6.	Gomphosis							
		a.	Consist of	that fit into		and are held in place by			
		b.	Where would you f	find a gomphosis?					
		C.	What is a periodor	ntal ligament?					
D.	. Cartilaginous Joints								
	1.	Synchondroses							
		a.	What holds the two	bones together?					
		b.	b. How much movement occurs at a synchondrosis?						
		C.	Give an example of	of a synchondrosis? _					
	2.	Symphyses							
		a.	What holds the two	bones together?					
		b.	How much movem	ent occurs at a symp	hysis? _				
		C.	Give an example of	of a symphysis?					
E.	Synovial Joints								
	1.	Have a cavity that contains							
	2.	2. How much movement occurs at a synovial joint?							
	3.	The articulating surfaces of bones is covered with							
		a.	This provides						
	4.	Sc	ome joints contain fil	brocartilage					
		a.	These provide		_ &	to the joint			
	5.	W	hat is the joint caps	ule?					
		a.	The outer layer of	the joint capsule is c	alled				
			1. This layer is co	mposed of					
			2. This layer is co	ntinuous with					
		b.	The inner layer of	the joint capsule is ca	alled				
			1. Describe the co	omposition of this lay	er				
			2. This layer prod	uces		-			
	6.	Sy	novial fluid is a mix	ture of, _		_,, &			
	7.	. What is the major polysaccharide in synovial fluid?							

	a. It provides
8.	What is a bursa?
	a. Functionally bursa
	b. How is bursitis related to bursa?
Ту	pes of Synovial Joints
1.	Define the following terms related to movement occurring at joints:
	a. Monoaxial
	b. Biaxial
	c. Multiaxial
2.	Describe the articular surfaces at a gliding joint:
	a. What movement is allowed at a gliding joint?
3.	Describe the articular surfaces at a saddle joint:
	a. What movement is allowed at a saddle joint?
4.	Describe the articular surfaces at a hinge joint:
	a. What movement is allowed at a hinge joint?
5.	Describe the articular surfaces at a pivot joint:
	a. What movement is allowed at a pivot joint?
6.	Describe the articular surfaces at a ball-and-socket joint:
_	a. What movement is allowed at a ball-and-socket joint?
1.	Describe the articular surfaces at an ellipsoid joint:
	a. What movement is allowed at an ellipsoid joint?
nes	s of Movement
•	iding Movements
	This movement occurs at joints
	7y 1. 2. 3. 6. 7. Pes

	2.	De	Describe the movement		
В.	Angular Movements				
	1.	exion and Extension			
		a.	What direction does flexion move a body part?		
		b.	What direction does extension move a body part?		
		C.	What body part is an exception to these definitions?		
			Define flexion and extension for this structure		
		d.	Describe foot movement in plantar flexion		
		e.	Describe foot movement in dorsiflexion		
	2.	Ab	duction and Adduction		
		a.	Abduction is		
		b.	Adduction is		
		C.	Describe abduction of the fingers		
		d.	Describe adduction of the fingers		
		e.	What is lateral flexion?		
C.	Circular Movements				
	1. Rotation				
		a.	Describe rotation		
	2. Pronation and Supination		onation and Supination		
		a.	Refer to unique rotation of		
		b.	Describe pronation		
		C.	Describe supination		
		d.	During which movement does the radius and ulna cross?		
	3.	Ciı	cumduction		
		a.	Is a combination of,,, &		
			Describe circumduction		
D.	Sp	eci	al Movements		
	1.	Ele	evation and Depression		
		a.	Elevation moves		
		b.	Depression moves		

	2.	Protraction and Retraction					
		a. Protraction moves					
		b. Retraction moves					
	3.	Excursion					
		a. Describe lateral excursion					
		b. Describe medial excursion					
	4.	Opposition and Reposition					
		a. Describe opposition					
		b. What is reposition?					
	5.	Inversion and Eversion					
		a. Describe inversion					
		b. Describe eversion					
E.	Ra	nge of Motion					
	1.	What is active range of motion?					
	2.	What is passive range of motion?					
	3. The range of motion at a given joint is influenced by:						
		a. Shape of					
		b. Amount and shape					
		c. Strength and location					
		d. Strength and location					
		e. Amount of					
		f. Amount of					
		g. Amount of					
De	scr	ption of Selected Joints					
Α.	Те	emporomandibular Joint (TMJ)					
	1.	This is a joint between the &					
	2.	What is located between the 2 bones?					
	3.	The joint is strengthened by & ligaments					

IV.

	т.	The joint is a combination		JOIITL				
	5.	Describe the motions allowed at	this joint					
В.	Sh	houlder Joint						
	1.	This is a	joint					
		The rounded		h				
		What is the glenoid labrum?						
		The stability of the joint is due to						
	5.	What is the rotator cuff?						
C.	Elbow Joint							
	1.	What is the humeroulnar joint? _						
		What is the humeroradial joint? _						
	3.	Movement at the elbow is limited	by					
	4.	The rotation of the radial head all	ows	&				
	5.	List the three ligaments that reinforce this joint:						
		a		_				
		b		_				
		C		_				
D.	Hip	ip Joint						
	1.	The art	iculates with					
	2.	What is the acetabular labrum? _						
	3.	What is the transverse acetabular ligament?						
	4.	What does the iliofemoral ligament do?						
	5.	What does the ligamentum teres do?						
E.	Kn	nee Joint						
	1.	Located between	&					
		The femur has 2						
	3.	The tibia is &	with a					
		What are menisci and what do th						

	5.	5. Describe the attachment of the 2 cruciate ligaments					
		a.	The anterior cruciate ligament prevent	ts			
		b.	The posterior cruciate ligament preven	nts			
	6.	Th	e joint is also strengthened by:				
		a.		ligaments			
		b.		ligaments			
		C.		muscles			
F.	Ar	Ankle Joint and Arches of the Foot					
	1.	1. What three bones articulate to form the ankle (talocrural) joint?					
		a.					
		b.					
		C.					
	2.	2. What forms the lateral and medial margins of this joint?					
3. Functionally the ligaments of the arch:							
		a.	Hold				
		b.	Provide				
Eff	ect	s of	Aging on the Joints				
A.	W	What causes thinning of articular cartilage?					
В.	How is range of motion decreased?						
	1.	1. Ligaments and tendons					
	2.	Mι	iscles				
	3.	Ge	eneral decrease in				

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