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Skeletal System: The Appendicular Skeleton

I. Pectoral Girdle and Upper Extremity

Concept: The structure of the pectoral girdle and upper extremities is adaptive for freedom of movement and extensive muscle attachment.

Multiple Choice Questions							
1	(a) (b) (c) (d)	It is an incomplete girdle, l It is the uppermost of the t					
_ 2	2. A	A conoid tubercle is present on the inferior surface of the lateral end of					
	(a)	the sternum.	(c)	the clavicle.			
	(b)	the scapula.	(d)	the humerus.			
_ 3	3. Which is <i>not</i> a structural feature of the scapula?						
	(a)	infraspinous fossa	(c)	acromion			
	(b)	coracoid process	(d)	coronoid process			
_	4. Th	. The head of the humerus articulates with					
	(a)	the olecranon fossa.	(c)	the acromion.			
	(b)	the glenoid cavity.	(d)	the subscapular fossa.			
_ 4	5. W	Which is <i>not</i> a structural feature of the ulna?					
	(a)	radial notch	(c)	styloid process			
	(b)	ulnar notch	(d)	coronoid process			
_ 6	5. A	. A styloid process is a structural feature of both					
	(a)	the ulna and radius.	(c)	the radius and scapula.			
	(b)	the ulna and humerus.	(d)	the radius and humerus.			
_ 7	7. W	nich of the following wrist bo	nes articı	ulates with the bones of the antebrachium?			
	(a)	scaphoid	(d)	trapezium			
	(b) (c)		(e)	both a and c			
_ 8	8. Th	e proximal row of carpal bone	es include	es each of the following except			
	(a)	the pisiform.	(c)	the triquetrum.			
	(b)	the lunate.	(d)	the trapezium.			
,	True-	-False Questions					
_ 1	1. Th	e scapula serves as an attachm	nent site	for a number of muscles.			
	2. Th	e humerus is the longest bone	e in the h	ody.			

	_ 3.	The	brachium is the region of	the forearm	n within the upper extremity.		
	_ 4.	Both the scapula and the ulna have a coracoid process.					
	_ 5.	The	radius is the bone of the a	ntebrachiu	n that is located on the same side as the thumb.		
	_ 6.	The	heads of the metacarpal bo	ones form tl	he knuckles of a clenched fist.		
	_ 7.	The	re are three bones in each d	ligit of the l	hand.		
	_ 8.	The	hand consist of 8 carpal bo	ones, 5 met	acarpal bones, and 14 phalanges.		
II.	Pelvi	c Gi	rdle and Lower Extr	emity			
rg	Extens	ive pı		es on certain	ower extremities is adaptive for support and locomotion. n bones of the pelvic girdle and lower extremities accommodate maintaining posture.		
A.	M	ultip	le Choice Questions				
	_ 1.	Whi (a) (b) (c) (d)		ly and post he lower vis exae which,			
	2.	Whi	ch bone is not <i>one</i> of the t	hree that fo	orm the os coxae?		
	_	(a) (b)	pubis ilium	(c) (d)	symphysis pubis ischium		
	_ 3.	Con (a) (b) (c) (d)	is thinner and lighter. has a shallower symphys has a narrower true pelvis has a wider pubic angle.	sis pubis.	pelvis		
	4.	The	head of the femur articulat	es with			
		(a) (b)	the glenoid cavity. the acetabulum.	(c) (d)	the obturator foramen. the patella.		
	_ 5.	The (a) (b)	medial malleolus is a proc the tibia. the calcaneus.	cess on (c) (d)	the fibula. the talus.		
	_ 6.	The	largest tarsal bone is				
		(a)	the talus.	(c)	the navicular.		
		(b)	the cuboid.	(d)	the calcaneus.		
	_ 7.				ch of the following except		
		(a)		(c)			
		(b)	the lateral cuneiform.	(a)	the intermediate cuneiform.		
	_ 8.				tly paired with its diagnostic bony feature?		
			-	` '	•		
	_ 7.	(a) (b) The (a) (b) Whit (a)	the talus. the cuboid. distal row of tarsal bones the navicular. the lateral cuneiform.	(d) includes ea (c) (d) is incorrect (c)	the calcaneus. ch of the following <i>except</i> the cuboid. the intermediate cuneiform.		

В.	Tr	rue-False Questions					
	1.	Pelvimetry measures the dimensions of the symphysis pubis to determine whether a cesarean delivery might be necessary.					
	2.	The ilium is the largest of the pelvic bones.					
	3.	The sciatic nerve and the femoral vessels pass through the large obturator foramen of the os coxae.					
	4.	The femur is the longest, heaviest, strongest bone in the body.					
	5.	The patella articulates with the femur, tibia, and fibula at the knee joint.					
	6.	Each metatarsal bone has a proximal base, a body, and a distal head.					
	7.	The ball of the foot is formed by the head of the first metatarsal bone.					
	8.	The foot has both a longitudinal and a transverse arch.					
Ш. 1	Deve!	lopmental Exposition of the Appendicular Skeleton					
A.	M	ultiple Choice Questions					
	1.	The apical ectodermal ridge promotes bone and development.					
		(a) nerve (c) muscle (b) vessel (d) glandular					
	2.	Individual fingers are formed from					
		(a) an ectodermal ridge.(b) thalidomide.(c) digital rays.(d) finger buds.					
	3.	The individual digits of the hand and feet separate by the end of the week of development.					
		(a) fifth (c) sixth (b) eleventh (d) fourth					
	4.	4. The high incidence of limb deformities in infants between 1957 and 1962 was due to exposure of the					
		embryo to (a) radiation. (c) thalidomide.					
		(b) pesticides. (d) FD&C red dye number 2.					
В.	Tr	rue-False Questions					
	1.	Hyaline cartilage is gradually replaced by bone in intramembranous ossification.					
	2.	The development of the appendicular skeleton is initiated with the appearance of four small limb buds in the embryo.					

IV. Clinical Considerations

Α.	M	lultij	ple Choice Qu	estions		
	_ 1.	We	bbed digits are a co	ommon limb ma	alfor	mation referred to as
		(a)	polydactyly.		(c)	syndactyly.
		(b)	aryodactyly.		(d)	talipes.
	_ 2.	The	e most common ty	pe of fracture is		
		(a)	a pathologic frac		(c)	a traumatic fracture.
		(b)	a spontaneous fr	acture.	(d)	a collateral fracture.
	_ 3.	A f	racture of the later	al malleolus is o	comi	monly called
		(a)	a fibular fracture	.	(c)	a Pott's fracture.
		(b)	a tibial fracture.		(d)	a Langstein fracture.
	4.	The	e final event in the	natural repair o	of a t	oone is
	_	(a)	the formation of			
		(b)	the formation of	the callus.		
		(c)	the remodeling of			
		(d)	phagocytic activ	ity.		
В.	Tı	rue-	False Question	ıs		
	_ 1.	Mo	st fractures are cau	sed by injuries a	and a	are called traumatic fractures.
	_ 2.	Tea	uring off a finger is	s known as avul	sion	ı.
	_ 3.	Tal	ipes is a developm	ental disorder tl	nat n	nay be the result of both genetic and environmental factors.
V.	Chap	pter	Review			
Α.	C	omp	letion Questio	ons		
1.	The			_ is the most c	omn	nonly fractured bone in the body.
2.	The br	achiu	ım consists of a sir	ngle bone called	l the	·
3.	Longl	hones	contain		f	oramina for the passage of blood vessels into and out of the centers
٥.						oralimia for the passage of blood vessels into and out of the centers
	of the	bones	S.			
4.	Manus	s refei	rs to the		aı	nd pes refers to the
5. The pectoral and pelvic girdles and the bones of the upper and lower extremities compose the bones of the				he upper and lower extremities compose the bones of the		
			sk	celeton.		
6.	The _			_ has an anator	nica	l neck and a surgical neck.
7.	The _			_ of the ossa co	oxae	articulates with the sacrum.
8.	The			_ arch of the fo	ot is	s divided into medial and lateral portions.
Q	The no	atella	ic a	h	one	in that it forms within a tendon

B. Matching Questions

Match the bone with its diagnostic feature.					
1.	femur	(a)	ulnar notch		
2.	humerus	(b)	acetabulum		
3.	clavicle	(c)	medial malleolus		
4.	scapula	(d)	trochlea		
5.	tibia	(e)	auricular surface		
6.	ulna	(f)	acromion		
7.	ilium	(g)	greater trochanter		
8.	fibula	(h)	lateral malleolus		
9.	ischium	(i)	conoid tubercle		
10.	radius	(j)	olecranon		