STUDY GUIDE

for

Musculoskeletal Injuries, Soft-tissue Injuries, and Burns

1. Which of the following is not part of the axial skeleton?			xial skeleton?				
	A. B. C. D.	skull pelvis vertebral column thorax					
2.	Match	n the following components	of long b	oones with their definitions:			
		Diaphysis Epiphysis	A. B.	Intermediate transition region Passages for blood vessels and nerves			
		Metaphysis Periosteum Haversian canals	C. D. E.	The wide end of a long bone Long cylindrical shaft Tough outer bone layer			
3.		Connective tissue that provides the articular surfaces of the skeletal systems is called					
	A. B. C. D.	cartilage synovium ligament fossa					
4.	Conne	Connective tissues bands which hold joints together are called					
	A. B. C. D.	fossa ligaments cartilage synovium					
5.	The o	The oily, viscus fluid that lubricates articular surfaces is known as					
	A. B. C. D.	fossa ligaments cartilage synovium					

6. The most commonly fractured bone in the human body is the		nost commonly fractured bone in the human body is the
	A.	scapula
	B.	humerus
	C.	femur
	D.	clavicle
7.	The p	roximal humerus articulates with the
	A.	radius
	В.	ulna
	C.	glenoid fossa
	D.	clavicle
8.	The a	ct of turning the palm or foot upward is called
	A.	pronation
	B.	abduction
	C.	adduction
	D.	supination
9.	The m	netacarpal bones articulate with the
	A.	radius
	B.	ulna
	C.	phalanges
	D.	all of the above
10. The hollow surface of the pelvis into which the hear		ollow surface of the pelvis into which the head of the femur fits is the
	A.	glenoid fossa
	B.	calcaneus
	C.	acetabulum
	D.	tibial plateau
11.	The d	istal femur articulate with the
	A.	pelvis
	В.	tibia
	C.	fibula
	D.	radius

12.	The medial malleolus is formed by the	
	A.	tibia
	B.	fibula
	C.	calcaneus
	D.	tarsal bones
13.		_ is the only muscle over which we have control
	A.	Cardiac muscle
	В.	
	C.	
	D.	None of the above
14.	The A	chilles is an example of a
	A.	ligament
	B.	
	C.	cartilage
	D.	long bone
15.	Blunt	trauma causing bleeding and discoloration underneath the skin is a
	A.	laceration
	B.	contusion
	C.	abrasion
	D.	subluxation
16.	Overs	tretching of a muscle is called a
	A.	strain
	B.	sprain
	C.	subluxation
	D.	dislocation
17.	Tearir	ng of a ligament is known as a/an
	A.	strain
	B.	sprain
	C.	abduction

18.	A partial separation of a joint is called a/an						
	A.	dislocation					
	B.	subluxation					
	C.	pronation					
	D.	insufflation					
19.	Matc	h the following fractures wit	th their re	espective definitions:			
		Hairline	A.	Partial break on one side of bone only			
		Comminuted	B.	Bone ends compress together			
		Impacted	C.	<u> </u>			
		Greenstick	D.	Bone ends fragmented			
		Oblique	E.	Diagonal break			
20.	from	A transverse fracture is one in which the fracture extends perpendicular across from the long axis of the bone.					
	A.	True					
	В.	False					
21.	Ofter	Often you may not be able to differentiate a proximal femur fracture from a/ar					
	A.	posterior hip dislocation					
	B.						
	C.						
	D.	acetabulum fracture					
22.	Colle's fracture involves which bone(s)?						
	A.	Proximal ulna					
	B.	Proximal radius					
	C.	Distal radius					
	D.	Distal ulna					
23.		ch of the following statement suloskeletal injuries?	ts is true i	regarding the management of			
	A.	Splint the joints above and	d below t	he fracture site.			
	В.	Splint the bones above an					
	C.	<u> </u>		before and after any splinting.			
	D.	All of the above		seems with any opinions.			
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24.	4. The management of a pelvic fracture includes which of the following process.		
	A.	Pneumatic antishock garment	
	B.	IV fluid replacement	
	C.	Immobilization of the pelvic ring	
	D.	All of the above	

- 25. Traction splinting is indicated in which of the following conditions?
 - A. Isolated midshaft femur fracture
 - B. Disease-induced proximal femur fracture
 - C. Bilateral femur fractures with profound shock
 - D. All of the above
- 26. When should you attempt to manipulate a knee dislocation?
 - A. Always
 - B. Never
 - C. if distal pulses are absent
 - D. if the patient experiences pain
- 27. In which of the following cases would the pneumatic antishock garment be an effective splint?
 - A. Pelvic fracture
 - B. Bilateral femur fractures
 - C. Multiple Tibia/fibula fracture s with shock
 - D. All of the above
- 28. The outermost layer of the skin consisting of dead or dying cells is the
 - A. epidermis
 - B. dermis
 - C. subcutaneous layer
 - D. sebaceous layer
- 29. Fatty secretion that helps keep the skin pliable and waterproof is called
 - A. intima
 - B. cilia
 - C. mucus
 - D. sebum

	C.	subcutaneous layer
	D.	sebaceous layer
31.	The la	yer containing adipose fat and connective tissue is the
	A. B. C. D.	epidermis dermis subcutaneous layer sebaceous layer
32.	The sr	mooth interior layer of the blood vessels is the tunica
	A. B. C. D.	intima media adventitia lumina
33.	The m	iddle, muscular layer of the blood vessels is the tunica
	A. B. C. D.	intima media adventitia lumina
34.	The or	uter fibrous layer of the blood vessels is the tunica
	A. B. C. D.	intima media adventitia lumina
	D .	TWITTING

The skin layer containing blood vessels and nerves is the

epidermis

dermis

30.

A.

B.

A. B.

C.

D.

all of the above

protecting the body from environmental pathogens

providing a barrier against infection

perceiving temperature, pain and pressure

36.	A closed wound in which the skin is unbroken, but the tissue underneath is damaged is a/an		
	A. abrasion		
	B. concussion		
	C. contusion		
	D. amputation		
37.	General reddening of the skin due to dilation of the superficial capillaries is		
	A. ecchymosis		
	B. erythema		
	C. hyphema		
	D. contusion		
38.	A scraping away of the superficial layers of the skin is a/an		
	A. erythema		
	B. ecchymosis		
	C. contusion		
	D. abrasion		
39.	A collection of blood trapped within a body compartment is a/an		
	A. hyphema		
	B. erythema		
	C. hematoma		
	D. contusion		
40.	Black and blue discoloration of the skin due to leakage of blood into the tissues is		
	A. hyphema		
	B. Hemoptysis		
	C. erythema		
	D. contusion or ecchymosis		
41.	The extent of burn injury depends upon which of the following factors?		
	A. Temperature		
	B. Concentration of heat energy		
	C. Length of contact time		
	D. All of the above		

42.	Which of the following types of radiation emits the most powerful rays				
	A.	Alpha			
	B.	Beta			
	C.	Delta			
	D.	Gamma			
43.	The 6	extent of radiation depends on which of the following factors?			
	A.	Duration of exposure			
	В.	Distance from the source			
	C.	$\boldsymbol{\mathcal{E}}$			
	D.	All of the above			
44.		patient who presents with dyspnea and hoarseness, following the inhalation perheated steam is in danger of developing			
	A.	pulmonary embolism			
	B.	complete airway obstruction			
	C.	anaphylaxis			
	D.	pulmonary edema			
45.	-	patient who has been in an enclosed area during combustion should be ected of having			
	A.	pulmonary embolism			
	B.	pulmonary edema			
	C.	carbon monoxide poisoning			
	D.	hyponatremia			
46.		rn involving the epidermis and dermis, producing blisters and pain in ified as			
	A.	first degree			
	B.	second degree			
	C.	third degree			
	D.	fourth degree			
47.		dult with burns to both arms, chest, abdomen, and entire has a % BSA burn.			
	A.	36			
	B.	45			
	C.	54			
	D.	63			
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48.	A child w A. 9 B. 14 C. 18 D. 28	3
49.	A. Hy B. Hy C. Es	The following is a complication of a burn injury? ypothermia ypovolemia schar Il of the above
50.	The major	r complication of circumferential burns is the
	B. los	uid loss in the burn area ss of barrier against infection urniquet effect cutting off distal circulation naerobic metabolism proximal to the burn site
51.	The prope	er care for an amputated part includes placing the part
	B. in C. in	rectly on ice warm saline a sealed dry bag, then into cold water rectly into cold water
52.	A. 10 B. 20 C. 25	centage of partial thickness burns can be safely cooled with water? 0% 0% 5% 0%
53.	A. rir B. us C. lea	management of chemical burns includes using the area with ice water using a neutralizing agent aving any corrosive materials on the skin gorous irrigation with cool water
54.	A. Score B. Ph. C. Ly D. Dr.	the following substances can you safely irrigate? odium nenol ye ry lime Settings\mhubble\Desktop\emc496\musculo.doc
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55.	The ap	ppendicular skeleton includes all of the following, except			
	A.	the clavicles and scapulae.			
	B.	the arms, forearms, wrists, hands and fingers.			
	C.	the legs, ankles, feet, and toes.			
	D.	the sacrum and coccyx.			
	E.	the pelvic bones.			
56.	Red b	lood cell production occurs in the			
	A.	yellow bone marrow.			
	B.	aponeurosis.			
	C.	red bone marrow.			
	D.	metaphysis.			
	E.	periosteum.			
57.	Fat sto	orage is accomplished within the			
	A.	yellow bone marrow.			
	B.	aponeurosis.			
	C.	red bone marrow.			
	D.	metaphysis.			
	E.	periosteum.			
58.	Initiation of new bone formation is accomplished by the				
	A.	yellow bone marrow.			
	B.	aponeurosis.			
	C.	red bone marrow.			
	D.	metaphysis.			
	E.	periosteum.			
59.	In layı	man's terms, theis called the shoulder bla	ıde.		
	A.	ulna			
	B.	clavicle			
	C.	humerus			
	D.	radius			
	E.	scapula			
60.	The bone located on the lateral side of the forearm is the				
	A.	ulna			
	B.	clavicle			
	C.	humerus			
	D.	radius			
	E.	scapula			
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is the bone of the upper arm. 61. The A. ulna clavicle B. C. humerus radius D. scapula E. 62. The are the bones of the hand. A. tarsals В. metatarsals C. carpals D. metacarpals phalanges E. 63. The are the bones of the fingers. tarsals A. metatarsals В. C. carpals D. metacarpals E. phalanges 64. The are the bones of the ankle. tarsals A. B. metatarsals C. carpals D. metacarpals E. phalanges 65. are the bones of the foot. The tarsals A. B. metatarsals C. carpals metacarpals D. E. phalanges 66. The are the bones of the toes. tarsals A. В. metatarsals C. carpals D. metacarpals phalanges

6/.		or the large Winglike bones of the pelvis is called
	A. B.	an ischium. an ilium.
	В. С.	an iliac crest.
	D.	asacrum.
	E.	a pubic bone.
	Ľ.	a public bolic.
68.	The r	most superior aspect of either side of the pelvis is the
	A.	ischium.
	B.	ilium.
	C.	iliac crest.
	D.	sacrum.
	E.	pubic bone.
69.	The r	most inferior portion of either side of the pelvis is the
	A.	ischium.
	B.	ilium.
	C.	iliac crest.
	D.	sacrum.
	E.	pubic bone.
70.	The r	posterior segment of the pelvis consists of the
70.	A.	ischium.
	В.	ilium.
	C.	iliac crest.
	D.	sacrum.
	E.	pubic bone.
71.	The a	anterior portion of the pelvis is formed by the meeting of two
	A.	ischiums.
	B.	iliums.
	C.	iliac crests.
	D.	sacrums.
	E.	pubic bones.

- 72. Which of the following statements regarding fractures is false?
 - A. A fracture does not require trauma to occur.
 - B. A fracture does not always produce significant pain.
 - C. A fracture may be present without a change in the extremity's range of motion, sensation, circulation, or appearance.
 - D. All of the above are false.
 - E. None of the above is false.

- 73. Complications of an extremity fracture include all of the following, except
 - A. pinched or severed nerves
 - B. soft tissue damage
 - C. pinched or lacerated blood vessels
 - D. contaminated wounds.
 - E. hemiparesis
- 74. may cause the leg to appear shortened.
 - A. An anterior hip dislocation
 - B. A posterior hip dislocation
 - C. A hip fracture
 - D. Either answer A or C
 - E. Answer A, B, or C
- 75. usually causes an anterior bulge and lateral rotation of the leg.
 - A. An anterior hip dislocation
 - B. A posterior hip dislocation
 - C. A hip fracture
 - D. Either answer A or C
 - E. Answer A, B, or C
- 76. usually causes an anterior sunken area and medial rotation of the leg.
 - A. An anterior hip dislocation
 - B. A posterior hip dislocation
 - C. A hip fracture
 - D. Either answer A or C
 - E. Answer A, B, or C
- 77. Your patient presents with her arm extended above her head and she is unable to move it at the shoulder. She most likely has of her shoulder.
 - A. an anterior dislocation
 - B. a posterior dislocation
 - C. an inferior dislocation
 - D. a superior dislocation
 - E. None of the above.
- 78. Your patient presents with a hollow shoulder, his arm hanging forward and away from his body, and his elbow medially rotated. He most likely has of his shoulder.
 - A. an anterior dislocation
 - B. a posterior dislocation
 - C. an inferior dislocation
 - D. a superior dislocation
 - E. None of the above.

- 79. Your patient holds his arm close to his anterior chest and appears to have a bulge on his anterior shoulder. He most likely has of his shoulder.
 - A. an anterior dislocation
 - B. a posterior dislocation
 - C. an inferior dislocation
 - D. a superior dislocation
 - E. None of the above.
- 80. The pulse that can be found at the posterior area of the knee is called the pulse.
 - A. popliteal
 - B. dorsalis pedis
 - C. posterior fibial
 - D. medial tibial
 - E. posterior tibial
- 81. The pulse that can be found on the medial side of the ankle, just posterior and inferior to the "ankle bone", is called the
 - A. popliteal
 - B. dorsalis pedis
 - C. posterior fibial
 - D. medial tibial
 - E. posterior tibial
- 82. Which of the following statements regarding fracture splinting is false?
 - A. Use gentle traction to straighten an angulated fracture before splinting, unless significant pain or resistance to correction is encountered.
 - B. Splint dislocations or deformities near a joint in the position they are found (manipulate them once only in attempt to restore a distal pulse).
 - C. Immobilization of the fracture is not accomplished unless it is immobilized from the joint above to the joint below the fracture.
 - D. A fractured long bone may be gently tractioned until protruding bone ends are drawn back into place.
 - E. Pad all rigid splints to prevent pressure and discomfort.

- 83. General rules for the splinting of any fracture include all of the following, except
 - A. expose the injury and check for a distal pulse.
 - B. remove all jewelry from the injured limb and secure it on the patient's person.
 - C. gently move the deformed section to check for the presence of crepitus.
 - D. dress the wound and pad all rigid splints before splinting.
 - E. always leave fingers and toes exposed unless they are injured and require dressing.
- 84. Which of the following statements regarding pelvic fracture is false?
 - A. Pelvic fractures present a potential life-threat.
 - B. Apply and inflate the abdominal section of the PASG to stabilize a pelvic fracture (the legs should remain uninflated unless associated extremity injury or hypotension is present).
 - C. Two or more large-bore crystalloid IVs should be initiated regardless of apparently "stable" vital signs in the presence of suspected pelvic fracture.
 - D. Consider rapid transport to a trauma facility.
 - E. None of the above is false.
- 85. Which of the following statements regarding upper extremity immobilization is false?
 - A. A sling and swathe are required on all upper extremity injuries (except for isolated digital injury).
 - B Place a roll of bandage in the hand of the injured extremity to preserve the position of function.
 - C. Use of air splints requires monitoring to assess for leaks or pressure changes.
 - D. Rigid splints may be used in conjunction with a sling and swathe.
 - E. An injured finger may be splinted with a tongue depressor or taped to the adjacent finger.
- 86. "Goose egg" is a term commonly used by nonmedical personnel to indicate the presence of
 - A. a hematoma
 - B. a laceration
 - C. an abrasion
 - D. an incision
 - E. a contusion

- 87. The term eschar refers to
 - A. the scabs that form on healing wounds or burns.
 - B. inelastic, necrotic tissue formation in the area of a full thickness burn
 - C. formation of blisters associated with a third degree burn.
 - D. Any of the above
 - E. None of the above
- 88. A crushing amputation frequently will result in
 - A. Profuse bleeding that is difficult to control
 - B. minimal bleeding because of rapid clotting
 - C. minimal bleeding because of vascular muscle contraction, producing tamponade
 - D. profuse bleeding because of muscular contraction
 - E none of the above
- 89. An amputation made with a single blow from a very sharp instrument or object frequently will result in
 - A. profuse bleeding that is difficult to control
 - B. minimal bleeding because of rapid clotting
 - C. minimal bleeding because of vascular muscle contraction, producing tamponade
 - D. profuse bleeding because of muscular contraction
 - E none of the above
- 90. Severe pain may be associated with all areas of
 - A. a first-degree burn
 - B. a second-degree burn
 - C. a third-degree burn
 - D. both answers a and b
 - E. both answers b and c
- 91. Charred black and/or dried white areas are associated with
 - A. a first-degree burn
 - B. a second-degree burn
 - C. a third-degree burn
 - D. both answers a and b
 - E. both answers b and c

- 92. Which of the following statements regarding electrical burn injury is false?
 - A. electrical current causes thermal burns within the body tissues, extending from contact sites to exit sites.
 - B. Electrical current may immobilize respiratory muscles and produce respiratory arrest.
 - C. Electrical current may produce flash burns or ignite articles of clothing and produce exterior thermal burns as well as internal electrical burns.
 - D. Electrical current may produce ventricular fibrillation.
 - E. Electrical current follows pathways of muscle or bone fibers more readily than pathways of blood vessels or nerves.