A&P Exam 3 Practice Test

- 1. Mix and match about thirty.
- 2. Contrast smooth, cardiac, and skeletal muscle. (97)

Type	Striated	Intercalated	Neurogenic/	Contraction	Multi-
		disks	myogenic	speed	nucleate?
Skeletal					
Smooth					
Cardiac					

3A. Draw a long bone and label at least six structures. (74 & 75) (Epiphysis, diaphysis, nutrient artery, periostenum, articular cartilage, spongy bone, epiphyseal plates/lines, compact bone, medullary cavity)

3B. Draw and label the parts of a Haversian system. (76 & 77) (Central canals, Lamellae, Osteocytes, Canaliculi, Lacunae)

Compare and	d contrast intramembranous ossification with endochondral ossification.
79)	
Intram	embranous ossification:
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Endocl	hondral ossification:
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Explain bon	e development in long bones. How does interstitial growth occur and how
	nal growth occur? (80&81)
	itial growth:
Interse	
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Appositional growth:	
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6. Define the following and give their functions: (79)	
6A. Osteoprogentor cells:	
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6B. Osteoblasts	
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6C. Osteoclasts	
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6D. Osteocytes	
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7. Explain how bone remodeling occurs. (81)	
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	one repair occurs. (82 & 83)	
	ects of parathyroid hormone and calcitonin	
and bone for		
and bone for	Sects of parathyroid hormone and calcitonin formation. (81 & 82)	
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and bone for	Pects of parathyroid hormone and calcitonin formation. (81 & 82) oid hormone	in the regulation of
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	he following types of joint movements: (82&84)
1071. Ollulling	
10B. Flexion	
10C. Extension	on
10D. Rotation	1
10E. Abduction	on
10F. Adduction	on
10G. Circumo	duction
11. Contrast t	he following types of joints: (84)
11A. Fibrous	
11B. Cartilag	inous
11C. Synovia	1
	he following types of joints: (88&89)
12A. Synarthi	roses

12B. Amphiarthroses
12C. Diarthroses
13. Contrast the following types of Synarthroses joints: (88) 13A. Suture
13B. Gomphosis
13C. Synchondrosis
14. Contrast the following types of Amphiarthroses joints: (88) 14A. Syndesmosis
14B Symphysis
15. Contrast the following types of Diarthroses: (91-93) 15A. Gliding joints
15B. Hinge joints
15C. Pivot joints
15D. Condyloid joint
15E. Saddle joint
15F. Ball and socket joint_
16. Explain the stages of integument repair. (98&99)

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	etal muscle what is stored in the sarcoplasmic reticulum? What is the
	etal muscle what is stored in the sarcoplasmic reticulum? What is the ne transverse tubules of the sarcolemma? (100 & 103)
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17B. On a diagram of a sarcomere be able to identify the following: H-zone, M-line, Z-line, A-band, and I-band. (103)

18. Explain what is happening at different points on an action potential diagram skeletal muscle cell. How and where are ions moving? Why do ion gates open of (104-105)	for a or close
A.	
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В.	
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С.	
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D.	
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E.	
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19. Using the terms <u>myosin</u> , <u>Actin</u> , <u>Troponin</u> , and <u>Tropomyosin</u> where appropriate answer the following questions: (106-110) 19A. Draw the 4 muscle proteins listed above showing their position when <u>NO</u> calcium is present in the cell cytoplasm (label the muscle proteins and the bonding sites).
19B. Draw the 4 muscle proteins listed above showing their position when calcium is
present in the cell cytoplasm. Be sure to clearly show anything that has bonded (label the muscle proteins and the bonding sites).

19C. Draw a diagram and explain how myosin heads move. Be sure to tell what is necessary to allow them to move forward again. (106-111)
19D. Clearly explain why rigor mortis occurs a few hours after death?
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19E. In smooth muscle where does most of the calcium that causes muscle contraction
come from? (117)

19G. What causes muscle fatigue? (114) •	(117)							
20. Contrast white muscle and red muscle. (112-113) Fast/Slow Myooglobin Speed Blood SR Mito Diameter Aerobic Supply Size Chondria								
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	•	ntrast white	muscle and red	l muscle.	(112-113 Blood	3) SR	Mito	Aerobic

Red								
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21 Ho	w are contrac	ctions in cardia	ic muscl	e differen	t from s	keletal muse	cle contract	ions?
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(110)								
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