REVIEW EXAM 2

Please answer the following questions. These questions are meant to help you test your knowledge of the subject matter. Do *not* send your answers to the school.

LESSON 2 – CHAPTERS 6, 7 CHAPTER 6 – SKELETAL SYSTEM

b. endosteum

1.	. The hormone that helps to prevent hypercalcemia by depositing excess calcium in bones is					
	a. b.	parathyroid hormone. calcitonin.	c. d.	antidiuretic hormone. oxytocin.		
2.	2. Compact bone consists of tightly compacted cylinders of bone called					
	a.	canaliculi.	c.	haversian systems.		

d. Volkmann's canals.

- 3. Blood vessels pass through countless tiny channels in the bone called
 - a. Volkmann's canals.b. growth plates.c. nutrient foramina.d. condyles.
- 4. Intramembranous bone formation only occurs
 - a. at growth plates.b. in the long bones.c. at secondary growth centers.d. in certain skull bones.
- 5. Examples of irregularly shaped bones include
 - a. sesamoids and vertebrae.b. vertebrae and tarsal bones.c. scapulas and sesamoids.d. skull bones and carpal bones.
- 6. Which of the following is true?
 - a. Yellow bone marrow consists primarily of hematopoietic tissue.
 - b. Yellow bone marrow can revert to red bone marrow.
 - c. Yellow bone marrow makes up the majority of bone marrow of young animals.
 - d. Red bone marrow consists primarily of adipose connective tissue.

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7.	Which joints contain hyaline cartilage?				
	a. b.	Cartilaginous Fibrous	c. d.	Synovial All of the above	
8.	What common bone feature is a somewhat spherical articular surface on the proximal end of long bones?				
	a. b.	Head Facet	c. d.	Condyle Fossa	
9.	9. The spinal cord passes through the hole called the				
	a. b.	obturator foramen. foramen magnum.	c. d.	nutrient foramen. obturator magnum.	
10.	0. The mandible is connected to the rest of the skull by what type of joint?				
	a. b.	Synovial Fibrous	c. d.	Cartilaginous Suture	
11.	In ca	ttle, the cornual process is a part of what bone?			
	a. b.	Parietal Temporal	c. d.	Sphenoid Frontal	
12.	Where's the paranasal sinus housed in humans and horses?				
	a. b.	Sphenoid bone Ethmoid bone	c. d.	Frontal bone Cribriform plate	
13.	Which of the following statements is false?				
	a. b. c. d.	b. The two maxillary bones make up most of the upper jaw.c. The lacrimal bones form part of the medial portion of the orbit of the eye.			
14.	Whic	h of the following statements is false?			
	 a. The zygomatic arches are the bony landmarks below and behind the eyes that form the widest part of the skull in dogs and cats. b. The two incisive bones are also called the premaxillary bones. c. The most common type of mandibular fracture in horses and swine is the mandibular symphyseal fracture. d. The ramus of the mandible has the articular condyle that forms the temporomandibular joints with the temporal bone. 				
15.	Whic	h bones help to warm and humidify air before it e	ente	rs the lungs?	
	a. b.	Vomer Pterygoid	c. d.	Hyoid Turbinates	
16.		th of the following bones is <i>not</i> considered an inte			
10.	a. b.	Incisive Pterygoid	c. d.	Palatine Vomer	

17.	Which bone is considered by some authors to be a separate bone of the axial skeleton and na bone of the skull?						
	a.	Pterygoid	c.	Palatine			
	b.	Hyoid	d.	Zygomatic			
18.	Whic	th of the following bones is <i>not</i> paired?					
	a.	Temporal	C.	Ethmoid			
	b.	Nasal	d.	Frontal			
19.	Whic	th of the following bones is paired?					
	a.	Vomer	c.	Sphenoid			
	b.	Malleus	d.	Occipital			
20.	Which of the following statements is true?						
	a. b. c. d.	Cats and dogs have eight cervical vertebrae. Intervertebral discs house and protect the spinal cord The wings of the atlas can sometimes be palpated ju The dens of the atlas is an important part of the atlar	st be				
21.	Whic	ch of the following animals has the fewest numbe	r of	coccygeal bones?			
	a.	Dogs	C.	Cattle			
	b.	Pigs	d.	Humans			
22. An animal with seven cervical, 13 thoracic, and six lumbar vertebrae usual pairs of ribs?				vertebrae <i>usually</i> has how many			
	a.	20	C.	19			
	b.	13		Six			
23.	Whic	th bone forms a joint with the pelvis?					
	a.	Sacrum	c.	Coccygeal bones			
	b.	C7	d.	Tibia			
24.	4. Ribs whose ventral ends terminate in muscles of the thoracic walls are called						
	a.	sternal ribs.	C.	floating ribs.			
	b.	asternal ribs.	d.	costochondral ribs.			
25.	Which statement is <i>true</i> ?						
	a.	In humans, the tailbone consists of fused sacral bone	s.				
	b. Rib heads are fused to the lateral articular facets of thoracic vertebrae to form suture joints.						
	c.	The first, most cranial, sternebra is called the xiphoid	prod	cess.			
	d.	The hip joint is a ball-and-socket joint.					

CHAPTER 7 – MUSCULAR SYSTEM

1. What movement does contraction of the triceps brachii cause?

	a.	Flexion of the wrist	C.	Abduction of the elbow
	b.	Circumduction of the arm	d.	Extension of the elbow
2.	Whic	h of the following is true?		
	a.	A muscle is either an agonist or an antagonist for its li	fetin	ne.
	b.	Smooth muscle is striated, just like cardiac muscle.		
	C.	Fixators stabilize joints to allow other movements to ta		
	d.	Synergists stabilize joints to allow other movements to	tak	e place.
3.	Whic	h is a muscle of mastication?		
	a.	Trapezius	c.	Deltoid
	b.	Masseter	d.	Brachiocephalicus
4.	What's the origin of the transversus abdominis muscle?			
	a.	Pubis	c.	Linea alba
	b.	Ribs and sternum	d.	Xiphoid
5.	5. What's the orientation of fibers of the internal abdominal oblique muscle?			
	a.	Cranioventral	c.	Caudodorsal
	b.	Caudoventral	d.	Craniodorsal
6.	Abdo	ominal muscles are involved in all of the following	acti	ons except
	a.	parturition.	c.	urination.
	b.	defecation.	d.	back extension.
7.	What	muscle antagonizes the pectoral muscle?		
	a.	Biceps brachii	c.	Triceps brachii
	b.	Deltoid	d.	Extensor carpi radialis
8.	Which of the following is a muscle of the antebrachium?			
	a.	Biceps brachii	c.	Deltoid
	b.	Extensor carpi radialis	d.	Triceps brachii
9.	What	muscle has the Achilles tendon on its distal end?	•	
	a.	Gastrocnemius	c.	Biceps femoris
	b.	Quadriceps femoris	d.	Semitendinosus
10.	Whic	h of the following contracts during inspiration?		
	a.	Internal intercostal muscles	c.	Diaphragm
	b.	Pectoral muscle	d.	Latissimus dorsi
11.	What	type of muscle is referred to as voluntary striated	d mı	uscle?
	a.	Cardiac	c.	Skeletal
	b.	Smooth	d.	All of the above

12.	What's the name of the basic contracting unit of skeletal muscle?			
	a. b.	Sarcoplasmic reticulum Myofibril	c. d.	Sarcolemma Sarcomere
13.	Whic	h of the following is true?		
	a. b. c. d.	A motor unit consists of a muscle fiber and all of the r A fascicle consists of a nerve fiber and all of the musc Each nerve fiber attaches to only one muscle fiber. Acetylcholine is released by synaptic vesicles into the	cle fi	bers it innervates.
14.	What structure connects muscles to bones?			
	a. b.	Tendons Muscle bellies	c. d.	Ligaments Sarcomeres
15.	Whic	h of the following is false?		
	a. b. c.	Both contraction and relaxation require expenditure of When an impulse reaches the sarcoplasmic reticulum ions into the sarcoplasm. Acetylcholine is the neurotransmitter responsible for smuscle contraction. Actin filaments are pulled closer together during a muscle contraction.	, it c	auses the release of potassium
16.	Whic	h phase lasts longest in a twitch contraction?		
	a. b.	Latent Contracting	c. d.	Relaxation Refractory
17.	What compound provides energy to convert adenosine diphosphate back to adenosine triphosphate?			phosphate back to
	a. b.	Acetylcholine Myoglobin	c. d.	Calcium phosphate Creatine phosphate
18.	. Incomplete glucose breakdown that occurs during anaerobic metabolism can cause a byproduct called			
	a. b.	lactic acid. creatine phosphate.	c. d.	myoglobin. glycogen.
19.	What	type of muscle is called involuntary striated mus	cle?	
	a. b.	Skeletal Cardiac	c. d.	Smooth All of the above
20.	What	cells have multiple nuclei?		
	a. b.	Smooth Cardiac	c. d.	Skeletal All of the above

21.	What	's the function of intercalated disks?
	a.	They cause actin filaments to slide close together.
	b.	They transmit impulses from cell to cell.
	c.	They securely fasten cells together.
	d.	Both b and c are functions.
22.	In a h	nealthy heart, where does the pace at which cardiac muscle cells contract originate?
	a.	Left ventricle
	b.	Left atrium, specifically the sinoatrial node
	C.	Right atrium, specifically the sinoatrial node
	d.	Right ventricle
23.	Whic	h of the following is true?

c. Smooth

c. I lines

d. Both a and c

d. Intercalated disks

a. Sympathetic fibers stimulate the heart to beat harder and faster.

d. All of the above are true statements.

a. Skeletalb. Cardiac

b. Z lines

a. Dense bodies

24. What muscle type is nonstriated, involuntary muscle?

b. Parasympathetic fibers stimulate the heart to beat more slowly with less force.

25. What structures are the attachment sites for actin and myosin in smooth muscle cells?

c. Neither sympathetic nor parasympathetic fibers are necessary for the heart's function.

ANSWERS

Chapter 6

- 1. B
- 2. C
- 3. A
- 4. D
- 5. A
- 6. B
- 7. C
- 8. A
- 9. B
- 10. A
- 11. D
- 12. B
- 13. A
- 14. C
- 15. D
- 16. A
- 17. B
- 18. C
- 19. B
- 20. C
- 21. D

22.	В
23.	Α
24.	С
25.	С
Cha	oter 7
1.	D
2.	С

3. B

4. B

5. A

6. D

7. B

8. B

9. A.

10. C

11. C

12. D

13. D

14. A

15. B

16. C

17. D

18. A

- 19. B
- 20. C
- 21. D
- 22. C
- 23. D
- 24. C
- 25. A