INTEGRATIVE BIOLOGY 131 October 16, 2000, Exam I

Part I. Choose the best correct answer.

Bursae are

a, humerus

d. radiolus

a. glenoid cavity
(b.) acetabulum
c. popliteal fossa
d. cubital fossa

8. The socket which receives the head of the femur is the

(1)

(b) ulna c. radius

connective tissue sacs filled with synovial fluid c. made of synovial membrane and increase friction d. found in all joints 2. During walking, the tarsal bone which initially bears the weight of the lower extremity is a. calcaneous b. first metatarsal	s the
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h first metatarsal	
O. That metataran	
(c.) talus	
d. navicular	
 The superior ridge of the pelvic girdle is known as the 	
a. public tubercle	
b. ischial tuberosity	
(c) iliac crest	
d. sacral crest	
4. The inguinal ligament extends from the pubic tubercle to the	
(a.) anterior iliac spine	
b. posterior iliac spine	
c. greater trochanter	
d. obturator foramen	
5. A Pott's fracture involves the lateral bone of the leg which is the	
a. tibia	
b. calcaneous	
c. femur	
(d) fibula	
6. The distal protuberance of the tibia at the ankle is the	
a. lateral malleolus	
b. tibial tuberosity	
c. medial epicondyle	
(d) medial malleolus	
7. The medial bone of the forearm is the	

- 9. The framework of spongy bone is called trabeculae Volkmann's canals hyaline cartilage elastic cartilage 10. During muscle contraction in the limbs a. the belly of the muscle remains unchanged (b) the insertion usually moves toward the origin the origin usually moves toward the insertion d. none of the above 11. The trapezius muscle is named on the basis of a. size b. location (c.) shape d. action 12. The trapezius inserts on the a. ligamentum nuchae b. clavicle - medial aspect c. thoracic vertebral spines (d) spine and acromium of the scapula 13. The trapezius
 - c. flexes the neck forwardd. rotates the humerus
- 14. The biceps
 a. flexes the arm
 - b. pronates the forearm

(a) shrugs the shoulders b. depresses the sternum

- (c) supinates the forearm
- d. extends the arm
- 15. The facial muscle that wrinkles the forehead is the
 - a. mentalis
 - b. occipitalis
 - c. zygomaticus
 - (d.) frontalis
- 16. A muscle used to adduct the arm is the
 - a. pectoralis major
 - (b.) deltoid
 - c. triceps
 - d. sternocleidomastoid

17. All of the following are flexors of	I the knee except the
a. biceps femoris	
(b) rectus femoris	
c. semitendinousus	
d. semimembranosus	
18. All of the following flex the forea	arm excent
a. brachialis	o
b. brachioradialis	
c. biceps brachii (d) triceps brachii	
19. The longest muscle fibers in the l	hady are found in the
	body are round in the
b. quadraceps femoris	
c.) sartorius	
d. gracilis	
_	atures of cardiac muscle is the junction between muscle cells called
a. sarcolemma	
(b) intercolated disc	
c. sarcoplasmic reticulum	
d. endoplasmic reticulum	
21. According to the sliding filament	·
a. Z bands move away from A ba	
(b.) I bands move toward each oth	
A bands move away from each	
d. thick myofilaments move away	
22. Which of these is incorrect? The	
a. is partially filled with connecting	
b. is the largest foramen in the	body
ightens the skull	
d. lightens the pelvis	
23. This bone does not articulate with	h the maxillary bone.
a. palatine	
b. zygomatic	
c nasal	
d mandible	
24. The technical term for hunchback	is
(a.) kyphosis	
6. lordosis	
c. scoliosis	
d. scoliosus	
25. The costal cartilages are made of	
a. clastic cartilage	
(b) hyaline cartilage	
c. fibrocartilage	
d. spongy cartilage	(3)
2. oba0) am04	V-7

26	
20.	The knuckles are the
	a. phalanges 5) heads of metagarnals
(Б) heads of metacarpals c. carpals
	d. heads of metatarsals
27	The sternal angle is at the
<i>L</i> ,	a. attachment of the 12 th rib to the sternum
	b. clavicular-sternal junction
	c. xiphoid-body junction
	dy junction of the second costal cartilage with the sternum
	Bone forming cells are called
	a. osteocytes
Ö	b.) osteoblasts
	c. osteoclasts
1	d. osteoplasts
29.	The middle ear is found in which bone?
	a. frontal
	b. parietal
	c.) temporal
(d. occipital
	Volkmann's canals
	supply the blood vessels in the Haversian canals
c	run parallel to the Haversian canals are found only in spongy bone
	are lined with ostoclasts
	Elastic cartilage is found in the
_	external ear
b	knee joint
C.	intervertebral disc
d.	pubic symphysis
	A cord of dense fibrous connective tissue that attaches skeletal muscle to periosteum is called a/an
a.	
b.	deep fascia
C.	ligament
) tendon
33. F	ascia refers to
a.	thin sheets of elastic fibrous connective tissue
(b)	thin sheets of collagenous fibrous connective tissue
Č.	strong cords of reticular fibers
	rows of fat cells
	extension of the foot at the ankle is known as
1	hyperextension
(<u>b</u>)	plantar flexion dorsiflexion
С. Д	abduction (4)
(1,	(4)

35. The following symptoms fit what disease condition? Inflammation of synovial membrane, accur-	
pain, tenderness, some immobility at the joint	
a. bursitis	
b. slipped disc	
c) rheumatoid arthritis	
d. osteoarthritis	
36. Which statement is not true about a synovial membrane?	
a. it lubricates the joint	
b. it nourishes the articular cartilage	
c it is composed of loose connective tissue and synovial cells	
(d.) it forms the outer layer of the articular capsule	
37. Which are not formed elements in the blood?	
a. platelets	
b. red blood cells	
c. leukocytes	
d. chondrocytes	
38 Plasma proteins do not include	
a. glycogen b. globulin	
c. fibrinogen d. albumen	
39. Granular white blood cells are formed in the	
a. lymphatic tissue	
b. thymus	
(c) bone marrow	
d. tonsils	
40. If you have slow clotting time, you may have too few	
a. erythrocytes	
b. Ieukocytes	
(Ĉ, thrombocytes	
d. osteocytes	
Part II. Mark A for "true" and B for "false"	
41. Nongranular white blood cells are called neutrophils and lymphocytes.	
42. The functions of nongranular leukocytes include phagocytic and antibody formation.	
43. There are about 5 million per cubic millimeter WBC and 5 thousand per cubic millimeter RBC	
344. The general term than means the formation of blood cells is erythropoiesis.	
45. From the right ventricle the blood flows into the right atrium in the adult.	
46. The three vessels leading into the right atrium are the pulmonary artery, the inferior vena cava and	the
coronary sinus.	
page.	
47. The first branch off the ascending aorta is the brachiocephalic artery. (5)	

48. If you wished to get a substance quickly into the brain, you would inject your fluid into the right ventricle of the heart to pump the fluid into the brain.
49. The muscle of the heart is called cardiac muscle and has similar structures to skeletal muscle sucmyosin, actin and Z bands.
50. The closure of the valves in the aorta are the second heart sounds.
51. The conduction tissue in the heart is called the myocardium.

52. If a physician wanted to run a catheter through an arm vein into the heart, the catheter would ente heart through the inferior vena cava.

 \nearrow 53. The pacemaker of the heart is located in the right auricle.

54. Four pulmonary veins lead into the left atrium

55. Bones constituting the cheek bone include the maxillary, zygomatic and temporal.

 λ 56. A slipped disc is the rupture of the inner soft tissue (nucleus pulposus) though a fibrocartilage ring.

57. The humerus is most frequently fractured superior to the lesser tubercle

58. The "funny bone" is really the ulnar nerve which is lateral to the olecranon process.

§ 59. Sesamoid bones are found in tendons.

60. The inguinal canal is superior to the inguinal ligament and carries the spermatic cord in the male and round ligament in the female.

61. Most joints in the body are synovial joints.

62. Cartilage has a healthy blood supply as do bones.

63. Cardiac muscle is more subject to fatigue than skeletal muscle.

464. Muscle cells are the same as muscle fibers.

65. Both males and females have levator ani muscles which are found in the pelvic floor

66. The deltoid originates only on the acromion and spine of the scapula

67. Eosinophils or acidophils are the most common granular leukocytes.

68. After spinning blood in an hematocrit tube, the formed elements are mixed with the plasma.

A reticulocyte count indicated that 5% of the red blood cells were reticulocytes. Is this a normal count process. As the second of the count process of the country of the

YOUR BODY IS YOUR "HOUSE" WITH ALL THE ANATOMICAL ANSWERS FOR A LIFETIME