010 Chapter 10

Student:	
Several body orifices are regulated by circular muscles called	
2. Muscle fibers are arranged in bundles called	
3. A muscle that prevents unwanted movement of a bone is called a	
4. The muscle of the lips is the	
5. The prime mover of neck flexion is a prominent muscle on the side of the neck called the	
6. In a muscle, the fascicles diverge from both sides of a central tendon.	
7. The largest muscle of the upper back is the	
8. The linea alba separates the right and left muscles from each other.	
9. The hamstring muscles are the semimembranosus, semitendinosus, and	
10. The anterior aspect of the thigh is dominated by the, a large muscle with four heads.	

11.	1. All skeletal muscles have their origins and insertions on bone.	
	True	False
12.	The le	vator palpebrae is an antagonist of the orbicularis oris.
	True	False
13.	The lit	ttle finger is extended by both the extensor digitorum and the extensor digiti minimi.
	True	False
14.	Both t	he hand and the foot have lumbrical and interosseous muscles.
	True	False
15.	Each r	muscle fiber is surrounded by its own connective tissue sheath called the perineurium.
	True	False
16.	The bo	one at a muscle's origin shows little or no movement when that muscle contracts.
	True	False
17.	The in	terosseous muscles are fusiform.
	True	False
18.	The ac	ctions of a synergist are similar but not necessarily identical to those of a prime mover at the same
	True	False
19.	The pe	elvic diaphragm is deeper than the urogenital diaphragm.
	True	False
20.	Fusifo inserti	rm muscles are generally weaker than parallel muscles because they have a narrower tendon at the on.
	True	False
21.	An an	tagonist is a muscle that generally acts to prevent movement of a bone.
	True	False

	True	False	
23.		you swallow, you ca infrahyoid group.	an feel your larynx bob upwards. This results from the action of certain muscles
	True	False	
24.	Raisin	g the thumb to a hitc	chhiking position employs the adductor pollicis.
	True	False	
25.	Contra	action of the diaphra	gm expels air from the lungs.
	True	False	
	adduct antago belly brachi- deep tr fascicl interos palmar prime retinac triceps	alis ransverse perineus e sseous membrane ris longus mover	to the definitions. anal triangle aponeurosis biceps femoris bursa external urethral sphincter head ischiocavernosus pelvic diaphragm psoas major synergist urogenital triangle
26.	A broa	nd flat tendon is know	wn as the
27.	Muscl		main force in a given joint action is known as the
28.	Antago	onist of the rectus fe	moris is known as the

22. The orbicularis oculi moves the eye, for example when you are reading a page of print.

29.	Synergist of the biceps brachii is known as the
30.	The forms a web between the thumb and the palm.
31.	Connective tissue band that holds down tendons at the wrist or ankle are known as the
32.	Prominent muscle that extends from the lumbar vertebrae to the femur is known as the
33.	Helps to void urine is known as the
34.	Anterior half of the perineum is known as the
35.	Thick middle part of a muscle is known as the
36.	are straplike muscles of uniform width whose fascicles all run in the same direction.
	A. Convergent muscles
	B. Pennate muscles
	C. Rectilinear muscles
	D. Fusiform muscles
	E. Parallel muscles
37.	A/an muscle of the hand has both its origin and insertion within the hand.
	A. internal
	B. synergistic
	C. convergent
	D. extrinsic
	E. intrinsic

	E.	orbicularis oris
39.	Th	e muscles pull the skin of the chin upward.
	A.	depressor anguli oris
	B.	mentalis
	C.	depressor labii inferioris
	D.	platysma
	E.	masseter
40.	All	of the following are intrinsic muscles of the head except
	A.	the temporalis.
	B.	the epicranius.
	C.	the sternocleidomastoid.
	D.	the risorius.
	E.	the nasalis.
41.	All	of the following produce chewing movements of the mandible except
	A.	the masseter.
	B.	the medial pterygoid.
	C.	the lateral pterygoid.
	D.	the thyrohyoid.
	E.	the mylohyoid.
42.	Wł	nich of the following is an extensor of the neck?
	A.	posterior scalene
	B.	semispinalis capitis
	C.	sternocleidomastoid
	D.	occipitalis
	E.	omohyoid

38. A smile is produced by contraction of the ___ muscle(s).

A. frontalis

B. zygomaticus

D. orbicularis oris

C. depressor anguli oris

44. The deepest muscle of the abdominal wall is
A. the transversus abdominis.
B. the internal oblique.
C. the rectus abdominis.
D. the erector spinae.
E. the latissimus dorsi.
45. The pronator teres and pronator quadratus
A. depress the scapula.
B. rotate the scapula.
C. flex the elbow.
D. turn the palm upward.
E. turn the palm downward.
46. The two prominent superficial tendons at the wrist belong to the muscle(s).
A. semitendinosus and semimembranosus
B. palmaris longus and flexor carpi ulnaris
C. flexor retinaculum and extensor retinaculum
D. flexor digitorum superficialis
E. extensor digitorum and extensor pollicis brevis
47. All of the following belong to the triceps surae of the calf except
A. the plantaris muscle.
B. the soleus muscle.
C. the tibialis posterior muscle.
D. the calcaneal tendon.
E. the gastrocnemius muscle.
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43. The word hallucis in the name of a muscle pertains to

A. the great toe.B. the thumb.C. the ankle.D. the wrist.E. the mind.

	A. sternothyroid
	B. sternohyoid
	C. mylohyoid
	D. omohyoid
	E. thyrohyoid
49.	Which one of these muscles helps to open the mouth (depress the mandible)?
	A. zygomaticus major
	B. digastric
	C. sternohyoid
	D. depressor anguli oris
	E. mentalis
50.	The acts synergistically with the masseter to elevate the mandible.
	A. levator scapulae
	B. splenius capitis
	C. buccinator
	D. zygomaticus major
	E. temporalis
51.	The originates on the zygomatic arch and inserts on the angle of the mandible.
	A. masseter
	B. buccinator
	C. temporalis
	D. genioglossus
	E. zygomaticus major
52.	Which of the following is not a muscle of the lower extremity?
	A. sartorius
	B. adductor magnus
	C. pectineus
	D. semitendinosus
	E. flexor carpi ulnaris

48. Which of the following is not an infrahyoid muscle?

54. T	The prominent tendons you can palpate at the popliteal fossa arise from
I	A. the biceps brachii.
I	3. the triceps brachii.
(C. the hamstring muscles.
I	D. the quadriceps femoris.
I	E. the gastrocnemius.
55. (Crossing your legs while sitting employs mainly
A	A. the sartorius.
I	3. the superior gemellus.
(C. the piriformis.
I	D. the pectineus.
I	E. the bulbocavernosus.
56. V	Which of the following muscles is not externally visible on the trunk of the body?
A	A. latissimus dorsi
I	3. teres major
(C. transversus abdominis
I	D. trapezius
I	E. pectoralis major
57. T	The longest muscle of the human body is
I	A. the sartorius.
I	3. the ischiocavernosus.
(C. the gastrocnemius.
I	D. the superior rectus.
I	E. the triceps brachii.
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53. Which of the following muscles is not below the knee?

A. flexor digitorum brevis

B. psoas major

E. soleus

C. abductor hallucisD. peroneus longus

58. The calcaneal (Achilles) tendon arises from
A. the gastrocnemius and soleus.
B. the peroneus longus and peroneus brevis.
C. the lateral rotator muscles.
D. the semitendinosus and semimembranosus.
E. the adductor longus, adductor brevis, and adductor magnus.
59. Which of the following muscles does not insert on the tibia or fibula?
A. tibialis anterior
B. rectus femoris
C. biceps femoris
D. vastus medialis
E. semimembranosus
60. Which of the following is not a muscle of the buttocks?
A. tensor fasciae latae
B. lateral rotators
C. vastus intermedius
D. gluteus maximus
E. gluteus minimus
61. You have just played a stunning violin concerto, the audience is wild with applause, and you take a deep bow, using your
A. gluteus maximus muscles.
B. iliopsoas muscles.
C. extensor hallucis longus muscles.
D. dorsal interosseous muscles.
E. lumbrical muscles.
62. Which of the following flexes the thigh?
A. vastus lateralis
B. vastus medialis
C. semimembranosus
D. rectus femoris
E. biceps femoris

63.	The quadriceps femoris includes all of the following muscles parts except
	A. the vastus medialis.
	B. the rectus femoris.
	C. the vastus intermedius.
	D. the vastus femoris.
	E. the vastus lateralis.
64.	The is one of the hamstring muscles on the posterior side of the thigh.
	A. semimembranosus
	B. adductor magnus
	C. gluteus minimus
	D. ischiocavernosus
	E. tensor fasciae latae
65.	Which of the following muscles produces plantar flexion of the foot?
	A. tibialis anterior
	B. soleus
	C. plantaris
	D. flexor digitorum brevis
	E. quadratus plantae
66.	The teres major and teres minor originate on the and insert on the
	A. humerus; scapula
	B. scapula; humerus
	C. os coxae; femur
	D. femur; tibia
	E. tibia; calcaneus and talus
67.	Tendinous insertions divide the into segments externally visible on the abdomen of a well-muscled person.
	A. vastus lateralis
	B. biceps brachii
	C. quadriceps femoris
	D. serratus anterior
	E. rectus abdominis

- 68. When you hyperextend your fingers, as in admiring a ring, you may be able to see three or four prominent tendons stand out on the back of your hand. These tendons arise from
 A. the flexor digitorum superficialis.
 B. the flexor digitorum profundus.
 C. the lumbrical muscles.
 D. the extensor digitorum.
 E. the dorsal interossei.
- 69. Suppose you were doing toe-touching exercises, without bending your knees. Each time you stood up, you would be using
 - A. the iliocostalis muscles.
 - B. the quadratus femoris muscles.
 - C. the gastrocnemius muscles.
 - D. the rectus abdominis muscles.
 - E. the gluteus medius and minimus muscles.
- 70. Which of the following perineal muscles exhibits the greatest difference between males and females?
 - A. the bulbospongiosus
 - B. the deep transverse perineus
 - C. the levator ani
 - D. the coccygeus
 - E. the external anal sphincter
- 71. Which of the following muscles is bipennate?
 - A. the pectoralis major
 - B. the biceps brachii
 - C. the rectus femoris
 - D. the palmar interosseous muscles
 - E. the deltoid

72. In skeletal muscle, groups of muscle cells are called and are surrounded by a connective tissue sheath called the
A. fascicles, endomysium
B. fascicles, perimysium
C. fasciae, epimysium
D. fasciae, endomysium
E. fascicles, epimysium
73. The biceps brachii is connected to the scapula by collagenous fibers of the epimysium called the and this attachment represents the of the biceps brachii.
A. aponeurosis; origin
B. indirect attachment; insertion
C. tendon; origin
D. tendon; insertion
E. aponeurosis; insertion
74. The rectus abdominis is a(n) muscle, while the rectus femoris is a(n) muscle.
A. fusiform; parallel
B. parallel; bipennate
C. circular; multipennate
D. convergent; unipennate
E. bipennate; parallel
75. Which one of the following muscles would exert the greatest tension on its insertion?
A. biceps brachii
B. rectus abdominis
C. pectoralis major
D. orbicularis oculi
E. brachioradialis
76. Which of the following muscles are not part of the rotator cuff?
A. subscapularis
B. infraspinatus
C. supraspinatus
D. teres minor
E. teres major

77. The extensor carpi ulnaris is an example of what type of muscle?	
A. intrinsic	
B. extrinsic	
C. synergist	
D. fixator	
E. antagonist	
78. Lumborum means, while brachii means	
A. of the thorax; of the fibula	
B. of the lower back; of the arm	
C. of the thorax; of the thumb	
D. of the chest; of the great toe	
E. of the lower back; of the hand	
79. You are trying to find the flexor digitorum profundus. You are looking for a muscle that	
A. flexes the toes and is large.	
B. flexes the fingers and is close to the skin.	
C. flexes the fingers or toes and is deep.	
D. rotates the toes and is large.	
E. flexes the leg and is small.	
80. You are looking for the flexor hallucis brevis. This muscle	
A. flexes the thumb briefly.	
B. flexes the index finger and is short.	
C. flexes the little toe and is short.	
D. flexes the great toe and is short.	
E. flexes the ring finger and is short.	
81. The frontalis muscle is connected to the occipitalis muscle by a(an)	
A. deep fascia.	
B. tendon.	
C. aponeurosis.	
D. flat, thin muscle.	
E. ligament.	

82. The muscles of the cheek, which function in blowing, sucking, and chewing, are called the	muscles.
A. buccinator	
B. masseter	
C. orbicularis oris	
D. zygomaticus major	
E. zygomaticus minor	
83. The two powerful muscles, which elevate your mandible to bite and chew, are the	
A. masseter and buccinator.	
B. zygomaticus major and minor.	
C. temporalis and masseter.	
D. depressor labii inferioris and depressor anguli oris.	
E. buccinator and temporalis.	
84. This muscle, which is named for its origin and insertion, elevates the hyoid bone.	
A. stylohyoid	
B. omohyoid	
C. sternohyoid	
D. thyrohyoid	
E. sternothyroid	
85. The principle flexors of the neck are the	
A. sternocleidomastoid and trapezius.	
B. scalenus and trapezius.	
C. splenius capitis and sternocleidomastoid.	
D. sternocleidomastoid and scalenus.	
E. sternocleidomastoid and platysma.	
86. The muscular dome between the abdominal and thoracic cavity is the	
A. central tendon.	
B. diaphragm.	
C. external intercostals.	

D. internal intercostals.E. transverse abdominis.

	C. iliocostalis
	D. rectus abdominis
	E. spinalis
00	
88.	dentify the muscle that you can see originates on the iliac crest and inserts on lumbar vertebrae and rib 12
	A. multifidus
	3. quadratus lumborum
	C. erector spinae
	D. splenius
	E. longissimus
89.	dentify the muscle group which extends and rotates the vertebral column.
	A. serratus posterior
	3. quadratus lumborum
	C. multifidus
	D. iliocostalis
	E. longissimus
90.	Your hamstring muscles, gluteus maximus, and erector spinae are contracting in the sequence listed. Your most likely
	A. straightening up after touching your toes.
	3. standing up from sitting in a chair.
	C. turning over in a lying position.
	D. climbing up stairs.
	E. bending to touch your toes.

87. Which of the following muscles flexes the vertebral column?

A. longissimus

B. transverse abdominis

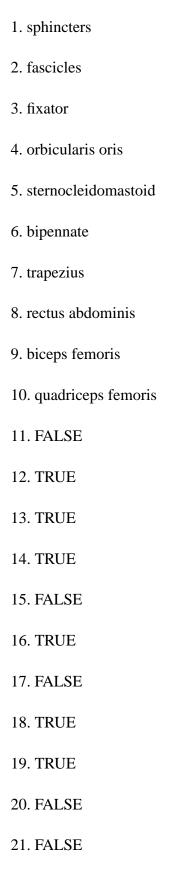
- 91. In males, this muscle forms a sheath around the base of the penis and expels semen during ejaculation. In females, this same muscle encloses the vagina and tightens on the penis during intercourse. This muscle is the
 A. ischiocavernosus.
 B. superficial transverse perineus.
 C. levator ani.
 D. bulbospongiosus.
 E. cremaster.
- 92. The muscles that laterally rotate and depress the scapula, as in shrugging and lowering the shoulders, are the
 - A. trapezius and serratus anterior.
 - B. pectoralis minor and serratus anterior.
 - C. levator scapulae and rhomboideus muscles.
 - D. trapezius and rhomboideus muscles.
 - E. levator scapulae and pectoralis major.
- 93. The four rotator cuff muscles are examples of
 - A. prime movers.
 - B. antagonists.
 - C. synergists.
 - D. fixators.
 - E. medial rotators.
- 94. The principle flexors of the forearm are the
 - A. biceps brachii and coracobrachialis.
 - B. brachioradialis and brachialis.
 - C. subscapularis and coracobrachialis.
 - D. biceps brachii and brachialis.
 - E. biceps brachii and triceps brachii.

95.	On the posterior side of the hand you can notice four tendon sheaths around four tendons attaching to all of your digits except the thumb. These tendons all come from the same muscle called the
	A. extensor carpi ulnaris.
	B. extensor digiti minimi.
	C. extensor carpi radialis.
	D. extensor digitorum.
	E. extensor pollicis.
96.	This large muscle originates on the ilium and sacrum, inserts on the distal femur and its action is to extend the thigh.
	A. gluteus maximus
	B. tensor fasciae latae
	C. psoas major
	D. iliacus
	E. gluteus minimus
97.	Which one of the following is not part of the quadriceps muscle group?
	A. vastus medialis
	B. vastus lateralis
	C. vastus intermedius
	D. biceps femoris
	E. rectus femoris
98.	If the calcaneal (Achilles) tendon was cut, which muscle action would be affected the most?
	A. dorsiflexion
	B. plantarflexion
	C. inversion
	D. eversion
	E. leg extension
99.	The extensor digitorum longus, extensor hallicus longus, fibularis tertius, and tibialis anterior
	A. dorsiflex the foot.
	B. plantar flex the foot.
	C. invert the foot.
	D. evert the foot.
	E. extend the leg.

100. Skeletal muscle contractions help move

- A. blood through the heart.
- B. blood through arteries.
- C. blood through veins.
- D. food through the GI tract.
- E. urine through the ureters.

010 Chapter 10 Key



22. FALSE
23. TRUE
24. FALSE
25. TRUE
26. aponeurosis
27. prime mover
28. biceps femoris
29. brachialis
30. adductor pollicis
31. retinaculum
32. psoas major
33. deep transverse perineus
33. deep transverse permeus
34. urogenital triangle
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34. urogenital triangle
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34. urogenital triangle 35. belly 36. E 37. E 38. B 39. B
34. urogenital triangle 35. belly 36. E 37. E 38. B 39. B 40. C
34. urogenital triangle 35. belly 36. E 37. E 38. B 39. B 40. C 41. D

44. A

45. E

46. B

47. C

48. C

49. B

50. E

51. A

52. E

53. B

54. C

55. A

56. C

57. A

58. A

59. A

60. C

61. B

62. D

63. D

64. A

65. B

66. B

67. E

68. D

69. A

70. A

71. C

72. B

73. C

74. B

75. C

76. E

77. B

78. B

79. C

80. D

81. C

82. A

83. C

84. A

85. D

86. B

87. D

- 88. B
- 89. C
- 90. A
- 91. D
- 92. A
- 93. C
- 94. D
- 95. D
- 96. A
- 97. D
- 98. B
- 99. A
- 100. C