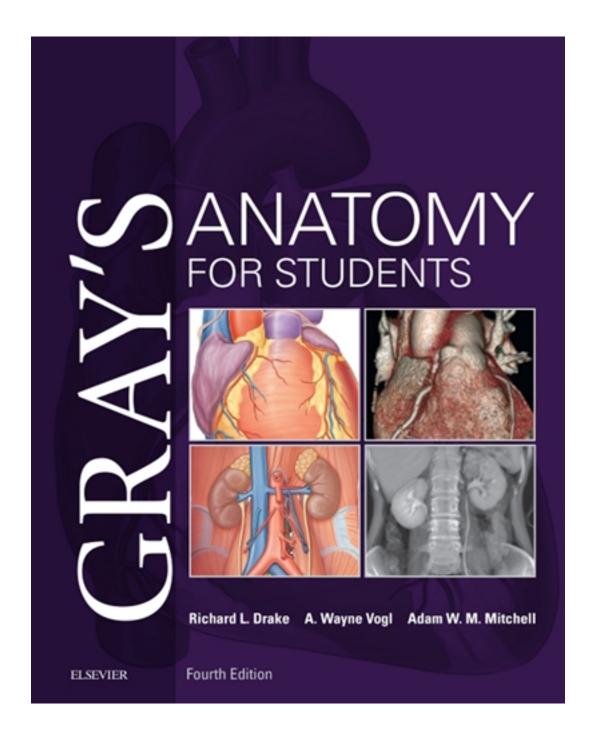
Test Bank for Gray's Anatomy for Students 4th Edition by Drake

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Test Bank

Drake: Gray's Anatomy for Students, 3rd Edition

Chapter 02: Back

Test Bank

TRUE/FALSE

1. The nervous system is composed of brain, spinal cord, and peripheral nerves.

ANS: T

DIF: memorization TOP: Body Systems

CHAP: Back

2. Bones of the appendicular skeleton form the brain case and vertebral column.

ANS: F

DIF: synthesis

TOP: Divisions of Skeleton

CHAP: Back

3. The upper extremities and the lower extremities are subdivisions of the axial skeleton.

ANS: F

DIF: synthesis

TOP: Divisions of Skeleton

CHAP: Back

4. The five sacral vertebrae remain separate until about 40 years of age; at that point they fuse to form one wedge-shaped bone.

ANS: F

DIF: memorization TOP: Vertebral Column

CHAP: Back

5. Palpable bony landmarks are bones that can be touched and identified through the skin.

ANS: T

DIF: memorization

TOP: Palpable Bone Landmarks

6. Normal curvature of the spine is convex through the thoracic region and concave through the cervical and lumbar regions.

ANS: T

DIF: memorization

TOP: Mechanisms of Disease

CHAP: Back

7. The dens is found on the first cervical vertebra or atlas.

ANS: F

DIF: memorization TOP: Vertebral Column

CHAP: Back

8. The dens is found on the second cervical vertebra, or axis.

ANS: T

DIF: memorization TOP: Vertebral Column

CHAP: Back

9. An articulation is a point of contact between bones.

ANS: T

DIF: memorization

TOP: Articulations Introduction

CHAP: Back

10. All synovial joints have an enclosed cavity with a lubricating fluid.

ANS: T

DIF: synthesis

TOP: Structure of Synovial Joints

CHAP: Back

11. Menisci are found in all synovial joints.

ANS: F

DIF: application

TOP: Structure of Synovial Joints

12. Menisci are pillowlike structures formed of synovial membranes filled with synovial fluid.

ANS: F

DIF: synthesis

TOP: Structure of Synovial Joints

CHAP: Back

13. Hinge joints permit adduction and abduction.

ANS: F

DIF: memorization

TOP: Types of Synovial Joints

CHAP: Back

14. A gliding joint is a form of uniaxial joint.

ANS: F

DIF: memorization

TOP: Types of Synovial Joints

CHAP: Back

15. As a group, gliding joints are the least movable of the synovial joints.

ANS: T

DIF: memorization

TOP: Types of Synovial Joints

CHAP: Back

16. A "slipped disk" is the result of deterioration of the nucleus pulposus.

ANS: T

DIF: application TOP: Vertebral Joints

CHAP: Back

17. A joint must allow movement between two bones to be called a *joint*.

ANS: F

DIF: memorization TOP: Introduction CHAP: Back

18. All fibrous joints are completely fixed joints.

ANS: F

DIF: memorization TOP: Fibrous Joints

CHAP: Back

19. Most symphyses are located in the midline of the body.

ANS: T

DIF: memorization

TOP: Cartilaginous Joints

CHAP: Back

20. The vertebral column contains both cartilaginous joints and synovial joints.

ANS: T

DIF: memorization

TOP: Cartilaginous Joints

CHAP: Back

21. There are more synovial joints in the body than any other type of joint.

ANS: T

DIF: memorization TOP: Synovial Joints

CHAP: Back

22. The elbow and the dens of the axis are both part of a uniaxial joint.

ANS: T

DIF: application

TOP: Types of Synovial Joints

CHAP: Back

23. Damage to the joint between the articulating surfaces of the vertebra can cause what is commonly called a slipped disk.

ANS: F

DIF: memorization

TOP: Representative Synovial Joints

CHAP: Back

24. If you are standing up and looking straight up toward the sky, your cervical spine will be hyperextended.

ANS: T

DIF: application

TOP: Angular Movements

CHAP: Back

25. *Myotome* is a term referring to a skeletal muscle group innervated by motor neuron axons from a given spinal nerve.

ANS: T

DIF: memorization

TOP: Dermatomes and Myotomes

CHAP: Back

26. The sacral plexus is found deep within the shoulder.

ANS: F

DIF: memorization

TOP: Sacral Plexus and Coccygeal Plexus

CHAP: Back

27. Skeletal muscles are somatic effectors.

ANS: T

DIF: memorization

TOP: Somatic Motor Nervous System

CHAP: Back

28. Autonomic effectors require two efferent neurons.

ANS: T

DIF: memorization

TOP: Structure of the Autonomic Nervous System

CHAP: Back

29. Each spinal nerve attaches to the spinal cord via two short roots.

ANS: T

DIF: memorization

TOP: Structure of Spinal Nerves

CHAP: Back

30. The parasympathetic division is the dominant controller of the body at rest.

ANS: T

DIF: memorization

TOP: Functions of the Parasympathetic Division

31. Sympathetic preganglionic neurons begin within the brain.

ANS: F

DIF: memorization

TOP: Sympathetic Preganglionic Neurons

CHAP: Back

32. The peripheral nervous system includes cranial nerves.

ANS: T

DIF: memorization TOP: Introduction CHAP: Back

33. The peripheral nervous system consists of 43 pairs of nerves and their branches.

ANS: T

DIF: application TOP: Introduction CHAP: Back

34. The peripheral nervous system contains only efferent nerves.

ANS: F

DIF: memorization TOP: Introduction CHAP: Back

35. Even though there are only seven cervical vertebra, this region generates eight cranial nerves.

ANS: T

DIF: memorization TOP: Spinal Nerves

CHAP: Back

36. The nerves emerging from the lower lumbar and sacral regions branch from a structure called the *cauda equina*, not the spinal cord itself.

ANS: T

DIF: memorization TOP: Spinal Nerves

37. The spinal ganglion is located on the anterior nerve root.

ANS: F

DIF: memorization

TOP: Structure of the Spinal Nerves

CHAP: Back

38. Branches of the posterior ramus innervate the skin and muscles of the posterior surface of the head, neck, and trunk.

ANS: T

DIF: memorization

TOP: Structure of the Spinal Nerves

CHAP: Back

39. Nerve plexuses of the thoracic region innervate the abdominal organs.

ANS: F

DIF: memorization TOP: Nerve Plexuses

CHAP: Back

40. The brachial plexus is the only plexus that contains a thoracic spinal nerve.

ANS: T

DIF: Nerve Plexuses/ Brachial Plexus

TOP: True CHAP: Back

41. There is almost no overlap in the dermatomes of the body.

ANS: F

DIF: memorization

TOP: Dermatomes and Myotomes

CHAP: Back

42. Reflexes are always unconscious or involuntary.

ANS: F

DIF: memorization TOP: Nature of a Reflex

CHAP: Back

43. A reflex always includes a muscle contraction or a gland secretion.

ANS: T

DIF: memorization TOP: Nature of a Reflex

CHAP: Back

44. In most cases, the effects of the sympathetic and parasympathetic divisions of the autonomic nervous system are antagonistic to each other.

ANS: T

DIF: memorization

TOP: Autonomic Nervous System

CHAP: Back

45. The somatic and visceral nervous systems are similar in that they both have two efferent neurons between the central nervous system and the effector organ.

ANS: F

DIF: memorization

TOP: Structure of the Autonomic Nervous System

CHAP: Back

46. The gray ramus consists of postganglionic fibers of the sympathetic nervous system.

ANS: T

DIF: application

TOP: Function of the Autonomic Nervous System

CHAP: Back

47. Sensory receptors make it possible for the body to respond to stimuli caused by changes occurring in our external or internal environment.

ANS: T

DIF: memorization

TOP: Sensory Receptors

CHAP: Back

48. Somatic sense receptors are distributed evenly throughout the body.

ANS: F

DIF: memorization

TOP: Distribution of Receptors

CHAP: Back

49. Proprioceptors are receptors for touch, pain, heat, and cold.

ANS: F

DIF: memorization

TOP: Classification by Location

CHAP: Back

50. You feel hungry because of a proprioceptor.

ANS: F

DIF: memorization

TOP: Classification by Location

CHAP: Back

51. Proprioceptors are activated by a change in temperature.

ANS: F

DIF: memorization

TOP: Classification by Location

CHAP: Back

52. Somatic sense receptors located in muscles and joints are called *proprioceptors*.

ANS: T

DIF: synthesis

TOP: Classification by Location

CHAP: Back

53. Referred pain may be caused by deep organ receptor and skin area receptors entering the same segment of the spinal cord.

ANS: T

DIF: memorization TOP: Referred Pain

CHAP: Back

54. When "central" and "peripheral" are used as directional terms in the nervous system, a nerve fiber may be called *peripheral* if it extends from the cell body away from the central nervous system.

ANS: T

DIF: memorization

TOP: Central and Peripheral Nervous Systems

CHAP: Back

55. The central nervous system is composed of efferent nerves only.

ANS: F

DIF: memorization

TOP: Afferent and Efferent Divisions

CHAP: Back

56. The peripheral nervous system includes both efferent and afferent nerves.

ANS: T

DIF: memorization

TOP: Afferent and Efferent Divisions

CHAP: Back

57. Pathways from the autonomic nervous system which arise from the thoracic region of the spinal cord would be sympathetic pathways.

ANS: T

DIF: application

TOP: Somatic and Autonomic Nervous System

CHAP: Back

58. Pathways from the autonomic nervous system which leave the central nervous system from the brain would be sympathetic pathways.

ANS: F

DIF: application

TOP: Somatic and Autonomic Nervous System

CHAP: Back

59. The central nervous system includes the brain, spinal cord, and autonomic nerves.

ANS: F

DIF: memorization

TOP: Central Nervous System Introduction

CHAP: Back

60. The central nervous system includes all of the nervous system except the peripheral nervous system.

ANS: T

DIF: memorization

TOP: Central Nervous System Introduction

CHAP: Back

61. The meninges are protective coverings, continuous around the brain and spinal cord.

ANS: T

DIF: application

TOP: Coverings of the Brain and Spinal Cord

CHAP: Back

62. Cerebrospinal fluid circulates in the subarachnoid space of the meninges.

ANS: T

DIF: memorization

TOP: Formation and Circulation of Cerebrospinal Fluid

CHAP: Back

63. The spinal cord completely fills the vertebral canal in the vertebral column.

ANS: F

DIF: memorization

TOP: Structure of the Spinal Cord

CHAP: Back

64. A physician can use lumbar puncture to withdraw cerebrospinal fluid from the subarachnoid space in the lumbar region of the spinal cord.

ANS: T

DIF: memorization TOP: Lumbar Puncture

CHAP: Back

65. Somatic sensory neuron cell bodies are located in the dorsal root ganglia of the spinal nerves.

ANS: T

DIF: application

TOP: Structure of the Spinal Cord

CHAP: Back

66. Cerebrospinal fluid is not found in the subarachnoid space.

ANS: T

DIF: memorization TOP: Fluid Spaces CHAP: Back

67. The most superficial border of the subarachnoid space is the dura mater.

ANS: F

DIF: application

TOP: Coverings of the Brain and Spinal Cord

68. The filum terminale is the name given to the dura mater below the spinal cord.

ANS: F

DIF: memorization

TOP: Coverings of the Brain and Spinal Cord

CHAP: Back

69. The spinal cord extends from the foramen magnum to the fifth lumbar vertebra.

ANS: F

DIF: memorization

TOP: Structure of the Spinal Cord

CHAP: Back

70. The dorsal root ganglion consists of cell bodies of unipolar sensory neurons.

ANS: T

DIF: memorization

TOP: Structure of the Spinal Cord

CHAP: Back

71. All spinal nerves are mixed nerves.

ANS: T

DIF: application

TOP: Structure of the Spinal Cord

CHAP: Back

72. There are 31 pairs of spinal nerves, all of which consist of both motor and sensory fibers.

ANS: T

DIF: memorization TOP: Spinal Nerves

CHAP: Back

73. The anterior rami of all spinal nerves subdivide to form complex networks called *plexuses*.

ANS: F

DIF: memorization

TOP: Structure of Spinal Nerves

74. Each spinal nerve attaches to the spinal cord by means of two short roots, an anterior root and a posterior root.

ANS: T

DIF: memorization

TOP: Structure of Spinal Nerves

CHAP: Back

75. The phrenic nerve is a branch of the brachial plexus.

ANS: F

DIF: application TOP: Cervical Plexus

CHAP: Back

76. A dermatome is the skin surface area supplied by a single spinal nerve.

ANS: T

DIF: memorization

TOP: Dermatomes and Myotomes

CHAP: Back

77. Somatic reflexes are contractions of smooth muscles.

ANS: F

DIF: memorization TOP: Nature of a Reflex

CHAP: Back

78. Visceral effectors are innervated by sympathetic fibers.

ANS: T

DIF: application

TOP: Autonomic Nervous System

CHAP: Back

79. Effectors that have single innervation by the autonomic nervous system are innervated only by the parasympathetic division.

ANS: F

DIF: memorization

TOP: Autonomic Nervous System

80. Most effectors of the autonomic system are dually innervated by sympathetic and parasympathetic neurons.

ANS: T

DIF: memorization

TOP: Autonomic Nervous System

CHAP: Back

81. Sensory neurons can operate in autonomic reflex arcs.

ANS: T

DIF: application

TOP: Structure of the Autonomic Nervous System

CHAP: Back

82. Preganglionic neurons conduct impulses from the brain or spinal cord to an autonomic ganglion.

ANS: T

DIF: memorization

TOP: Structure of the Autonomic Nervous System

CHAP: Back

83. Conduction to autonomic effectors requires only one efferent neuron.

ANS: F

DIF: memorization

TOP: Structure of the Autonomic Nervous System

CHAP: Back

84. Sympathetic responses are usually widespread, involving many organ systems at once.

ANS: T

DIF: memorization

TOP: Sympathetic Postganglionic Neurons

CHAP: Back

85. The parasympathetic division is also called the *thoracolumbar division*.

ANS: F

DIF: memorization

TOP: Structure of the Sympathetic Pathways

86. Parasympathetic stimulation has no effect on sweat glands.

ANS: T

DIF: memorization

TOP: Autonomic Functions

CHAP: Back

87. The sympathetic division is the dominant controller of the body at rest.

ANS: F

DIF: synthesis

TOP: Functions of the Autonomic Nervous System

CHAP: Back

88. Each spinal nerve branches into three rami: an anterior ramus, a posterior ramus, and an autonomic or visceral branch.

ANS: F

DIF: memorization

TOP: Structure of Spinal Nerves

CHAP: Back

89. All cell bodies of the autonomic nervous system are located within the CNS.

ANS: F

DIF: application

TOP: Divisions of the Peripheral Nervous System

CHAP: Back

90. Once inside the sympathetic chain ganglion, the preganglionic fiber will always synapse with a sympathetic postganglionic neuron.

ANS: F

DIF: application

TOP: Structure of the Autonomic Nervous System

CHAP: Back

91. The "fight-or-flight" reaction is a normal response in times of stress.

ANS: T

DIF: memorization

TOP: Functions of the Autonomic Nervous System

92. Under normal, nonstressful conditions, the parasympathetic division is dominant.

ANS: T

DIF: memorization

TOP: Functions of the Parasympathetic Division

CHAP: Back

93. The spinal root that possesses a swelling is the posterior root.

ANS: T

DIF: memorization

TOP: Structure of Spinal Nerves

CHAP: Back

94. The dorsal root ganglion contains motor neuron cell bodies.

ANS: F

DIF: memorization

TOP: Structure of Spinal Nerves

CHAP: Back

95. The lower end of the spinal cord bears the name lumbosacral plexus.

ANS: F

DIF: memorization

TOP: Sacral Plexus and Coccygeal Plexus

CHAP: Back

96. There are 28 pairs of spinal nerves.

ANS: F

DIF: memorization TOP: Spinal Nerves

CHAP: Back

97. Herpes zoster is a unique viral infection that almost always affects the skin of a single dermatome.

ANS: T

DIF: memorization TOP: Herpes Zoster

CHAP: Back

98. Small, distinct regions of gray matter within the CNS are called *nuclei*.

ANS: T

DIF: memorization TOP: Nerves and Tracts

CHAP: Back

99. Most nerves in the human nervous system are mixed (contain sensory and motor fibers).

ANS: T

DIF: memorization TOP: Nerves and Tracts

CHAP: Back

100. Spinal nerves are considered part of the peripheral nervous system.

ANS: T

DIF: memorization

TOP: Central and Peripheral Nervous Systems

CHAP: Back

101. When "central" and "peripheral" are used as directional terms in the nervous system, a nerve fiber may be called *peripheral* if it extends from the cell body toward the central nervous system.

ANS: F

DIF: memorization

TOP: Central and Peripheral Nervous Systems

CHAP: Back

MULTIPLE CHOICE

- 1. Which is not a part of the axial skeleton?
- a. rib
- b. vertebral column
- c. mandible
- d. clavicle

ANS: D

DIF: memorization

TOP: Divisions of Skeleton

- 2. The term *sinus*, as it relates to bone markings, may be defined as a:
- a. raised area or projection.
- b. cavity within a bone.
- c. tubelike opening or channel.
- d. groove or elongated depression.

ANS: B

DIF: memorization

TOP: Divisions of Skeleton

CHAP: Back

- 3. Which bone is a part of the axial skeleton?
- a. rib
- b. clavicle
- c. radius
- d. pelvic bones

ANS: A

DIF: memorization

TOP: Divisions of Skeleton

CHAP: Back

- 4. Which bone is a part of the appendicular skeleton?
- a. scapula
- b. vertebra
- c. parietal
- d. mandible

ANS: A

DIF: memorization

TOP: Divisions of Skeleton

CHAP: Back

- 5. The skeletal framework of the neck consists of:
- a. lumbar vertebrae.
- b. thoracic vertebrae.
- c. sacral vertebrae.
- d. cervical vertebrae.

ANS: D

DIF: memorization TOP: Vertebral Column

CHAP: Back

- 6. The number of thoracic vertebrae is:
- a. 5.
- b. 7.
- c. 10.
- d. 12.

ANS: D

DIF: memorization

TOP: Vertebral Column

CHAP: Back

- 7. All vertebrae, except the sacrum and coccyx, have a central opening called the:
- a. spinous process.
- b. vertebral foramen.
- c. dens.
- d. transverse process.

ANS: B

DIF: memorization TOP: Vertebral Column

CHAP: Back

- 8. A hunchback appearance of the thoracic region is probably due to:
- a. lordosis.
- b. scoliosis.
- c. kyphosis.
- d. slipped disks.

ANS: C

DIF: memorization

TOP: Mechanisms of Disease

CHAP: Back

- 9. Lateral curvature of the spine is called:
- a. scoliosis.
- b. lordosis.
- c. kyphosis.
- d. convexity.

ANS: A

DIF: memorization

TOP: Mechanisms of Disease

CHAP: Back

- 10. Going from superior to inferior, the sequence of the vertebral column is:
- a. sacral, coccyx, thoracic, lumbar, and cervical.
- b. coccyx, sacral, lumbar, thoracic, and cervical.
- c. cervical, lumbar, thoracic, sacral, and coccyx.
- d. cervical, thoracic, lumbar, sacral, and coccyx.

ANS: D

DIF: application

TOP: Vertebral Column

- 11. The structure that furnishes the axis for the rotation of the head from side to side is the:
- a. dens.
- b. spinous process.
- c. vertebral foramen.
- d. transverse process.

ANS: A

DIF: memorization TOP: Vertebral Column

CHAP: Back

- 12. Which of the following is not an example of a fibrous joint?
- a. symphyses
- b. sutures
- c. syndesmoses
- d. gomphoses

ANS: A

DIF: application

TOP: Fibrous Joints (Synarthrosis)

CHAP: Back

- 13. What are the most movable joints in the body?
- a. symphyses
- b. synovial joints
- c. syndesmoses
- d. synchondroses

ANS: B

DIF: memorization TOP: Synovial Joints

CHAP: Back

- 14. Which joint allows for the widest range of movement?
- a. gliding
- b. saddle
- c. ball and socket
- d. hinge

ANS: C

DIF: memorization

TOP: Types of Synovial Joints

- 15. An example of a hinge joint is the:
- a. head of the radius articulating with the ulna.
- b. interphalangeal joints.
- c. first metacarpal articulating with the trapezium.
- d. head of the humerus articulating with the scapula.

ANS: B

DIF: application

TOP: Types of Synovial Joints

CHAP: Back

- 16. Which joint allows for the following movements: flexion, extension, abduction, adduction, rotation, and circumduction?
- a. gliding
- b. saddle
- c. ball and socket
- d. trochoid

ANS: C

DIF: synthesis

TOP: Types of Synovial Joints

CHAP: Back

- 17. Moving a part of the body forward is:
- a. protraction.
- b. elevation.
- c. inversion.
- d. depression.

ANS: A

DIF: application

TOP: Special Movements

CHAP: Back

- 18. The type of movement that increases the angle between body parts is:
- a. flexion.
- b. extension.
- c. adduction.
- d. abduction.

ANS: B

DIF: application

TOP: Angular Movements

- 19. Vertebral bodies are connected together by the:
- a. ligamenta flava.
- b. ligamentum nuchae.
- c. posterior longitudinal ligament.
- d. intertransverse ligaments.

ANS: C

DIF: application TOP: Vertebral Joints

CHAP: Back

- 20. Deterioration of the nucleus pulposus can result in:
- a. "housemaid's knee."
- b. total hip replacement.
- c. osteoporosis.
- d. a "slipped disk" or herniated disk.

ANS: D

DIF: application TOP: Vertebral Joints

CHAP: Back

- 21. The ligamenta flava is located in the:
- a. shoulder.
- b. hip.
- c. knee.
- d. none of the above.

ANS: D

DIF: memorization

TOP: Representative Synovial Joints

CHAP: Back

- 22. The opposite of dorsiflexion is:
- a. dorsiextension.
- b. abduction.
- c. plantar flexion.
- d. none of the above.

ANS: C

DIF: memorization

TOP: Angular Movements

23. Pain that is perceived as being superficial, but actually is caused by an underlying organ, is called:

- a. phantom pain.
- b. referred pain.
- c. chronic pain.
- d. acute pain.

ANS: B

DIF: memorization TOP: Referred Pain

CHAP: Back

- 24. Visceroceptors are located in which of the following?
- a. skin
- b. tendons
- c. internal organs
- d. skeletal muscles

ANS: C

DIF: memorization

TOP: Classification by Location

CHAP: Back

- 25. The somatic senses enable us to detect sensations such as:
- a. touch.
- b. temperature.
- c. pain.
- d. all of the above.

ANS: D

DIF: memorization

TOP: Sense Organs Introduction

CHAP: Back

- 26. The layer of the meninges that serves as the inner periosteum of the cranial bone is the:
- a. pia mater.
- b. arachnoid membrane.
- c. dura mater.

ANS: C

DIF: memorization

TOP: Coverings of the Brain and Spinal Cord

- 27. The innermost layer of the meninges is the:
- a. pia mater.
- b. arachnoid membrane.
- c. dura mater.

ANS: A

DIF: memorization

TOP: Coverings of the Brain and Spinal Cord

CHAP: Back

- 28. The main divisions of the central nervous system are the:
- a. brain, spinal cord, and autonomic nerves.
- b. brain, spinal cord, and peripheral nerves.
- c. brain and spinal cord.

ANS: C

DIF: memorization

TOP: Central Nervous System Introduction

CHAP: Back

- 29. Meningitis refers to inflammation of the:
- a. brain.
- b. meninges.
- c. spinal cord.

ANS: B

DIF: memorization TOP: Meningitis CHAP: Back

- 30. Cerebrospinal fluid is found in all except the:
- a. subarachnoid space.
- b. central canal.
- c. third ventricle.
- d. subdural space.

ANS: D

DIF: application TOP: Fluid Spaces

- 31. If the anterior root of a spinal nerve were destroyed, a person would lose:
- a. sensory perception related to that pathway.
- b. motor output related to that pathway.
- c. reflex activity only, related to that pathway.
- d. both reflex activity and sensation related to that pathway.

ANS: B

DIF: application

TOP: Structure of the Spinal Cord

CHAP: Back

- 32. If the dorsal root ganglia of the spinal nerve were destroyed, a person would lose:
- a. sensory input to the CNS related to that pathway.
- b. willed movement related to the pathway.
- c. reflex activity only, related to that pathway.
- d. both reflex activity and sensation related to that pathway.

ANS: A

DIF: application

TOP: Structure of the Spinal Cord

CHAP: Back

- 33. Which of the following is not true?
- a. The spinal cord does not completely fill the vertebral canal.
- b. The spinal cord extends from the foramen magnum to the first lumbar vertebra.
- c. One bundle of nerve fibers (nerve roots) projects from each side of the spinal cord.
- d. The spinal cord has anterior and posterior grooves that almost divide the cord into symmetrical halves.

ANS: C

DIF: memorization

TOP: Structure of the Spinal Cord

CHAP: Back

- 34. The cerebrospinal fluid resides in the:
- a. ventricles of the brain.
- b. subarachnoid space.
- c. central canal of the spinal cord.
- d. all of the above.

ANS: D

DIF: memorization TOP: Fluid Spaces CHAP: Back

- 35. A way to distinguish between the anterior and posterior part of the spinal cord is:
- a. the dura mater is thickest on the posterior side.
- b. the posterior fissure is deeper and wider than the anterior fissure.
- c. the anterior fissure is deeper and wider than the posterior fissure.
- d. A and B.

ANS: C

DIF: memorization

TOP: Structure of the Spinal Cord

CHAP: Back

- 36. Which of the following is not a somatic sense?
- a. touch
- b. pressure
- c. proprioception
- d. all of the above are somatic senses

ANS: D

DIF: memorization

TOP: Sensory Functions of the Cortex

CHAP: Back

- 37. Which of the following is not a plexus of the spinal nerves?
- a. cervical
- b. brachial
- c. lumbar
- d. thoracic

ANS: D

DIF: memorization TOP: Nerve Plexuses

CHAP: Back

- 38. The cervical plexus:
- a. is found deep in the neck.
- b. is formed by the ventral rami of the first four cervical nerves and part of C5.
- c. includes the phrenic nerve.
- d. all of the above.

ANS: D

DIF: memorization TOP: Cervical Plexus

CHAP: Back

- 39. The spinal nerves are connected to the spinal cord and consist of:
- a. 12 pairs.
- b. 21 pairs.
- c. 31 pairs.
- d. 41 pairs.

ANS: C

DIF: memorization

TOP: Spinal Nerves

CHAP: Back

- 40. Which of the following is true about spinal nerves? They are:
- a. only sensory fibers.
- b. only motor fibers.
- c. completely autonomic fibers.
- d. motor and sensory fibers.

ANS: D

DIF: memorization

TOP: Structure of Spinal Nerves

CHAP: Back

- 41. A mixed nerve is one that:
- a. goes to both the skin surface and to the viscera.
- b. has its pathway mixed with other nerves.
- c. carries both sensory and motor fibers.
- d. carries large and small motor fibers.

ANS: C

DIF: memorization

TOP: Structure of Spinal Nerves

CHAP: Back

- 42. Somatic reflexes consist of:
- a. contractions of smooth muscle.
- b. contractions of cardiac muscle.
- c. glandular contractions.
- d. contractions of skeletal muscles.

ANS: D

DIF: memorization TOP: Nature of a Reflex

CHAP: Back

- 43. Which of the following would not be an effector of the autonomic nervous system?
- a. skeletal muscles
- b. blood vessels
- c. sweat glands
- d. the iris of the eye

ANS: A

DIF: memorization

TOP: Autonomic Nervous System

- 44. Once inside the sympathetic chain ganglion, the preganglionic fiber may:
- a. synapse with a sympathetic postganglionic neuron.
- b. send ascending and/or descending branches through the sympathetic trunk to synapse with postganglionic neurons in other chain ganglia.
- c. pass through one or more ganglia without synapsing.
- d. all of the above.

ANS: D

DIF: memorization

TOP: Structure of the Autonomic Nervous System

CHAP: Back

- 45. All of the following are examples of parasympathetic stimulation except:
- a. contraction of the urinary bladder.
- b. relaxation of the sphincters of the digestive tract.
- c. increased salivation.
- d. increased heart rate.

ANS: D

DIF: application

TOP: Functions of the Autonomic Nervous System

CHAP: Back

- 46. Parasympathetic stimulation has no effect on any of the following areas except:
- a. sweat glands.
- b. skin blood vessels.
- c. liver.
- d. urinary bladder.

ANS: D

DIF: application

TOP: Functions of the Parasympathetic Division

CHAP: Back

- 47. All of the following are examples of sympathetic stimulation except:
- a. decreased secretion in the pancreas.
- b. constriction of the urinary sphincters.
- c. constriction of the bronchioles.
- d. dilation of skeletal muscle blood vessels.

ANS: C

DIF: memorization

TOP: Functions of the Sympathetic Division

- 48. All of the following are examples of parasympathetic stimulation except:
- a. contraction of the urinary bladder.
- b. relaxation of the sphincters of the digestive tract.
- c. increased secretion of saliva.
- d. increased rate and strength of contraction of cardiac muscle.

ANS: D

DIF: application

TOP: Functions of the Parasympathetic Division

CHAP: Back

- 49. Which of the following is a correct statement?
- a. There are 7 cervical nerve pairs.
- b. There are 11 thoracic nerve pairs.
- c. There are 5 lumbar nerve pairs.
- d. All of the above are correct statements.

ANS: C

DIF: memorization TOP: Spinal Nerves

CHAP: Back

- 50. The peripheral nervous system includes:
- a. only spinal nerves.
- b. only spinal nerves and their branches.
- c. only cranial nerves, spinal nerves, and their branches.
- d. cranial nerves, the spinal cord, spinal nerves, and their branches.

ANS: C

DIF: memorization TOP: Introduction CHAP: Back

- 51. The peripheral nervous system includes:
- a. autonomic nerves.
- b. sensory nerves.
- c. somatic nerves.
- d. all of the above.

ANS: D

DIF: memorization TOP: Introduction CHAP: Back

52. Which part of the vertebral column has one more pair of nerves coming from it than it has vertebra?

- a. cervical
- b. thoracic
- c. lumbar
- d. B and C

ANS: A

DIF: memorization TOP: Spinal Nerves

CHAP: Back

- 53. Which is not true of the anterior nerve root?
- a. It is also called the *ventral root*.
- b. It contains the spinal ganglion.
- c. It includes motor neurons.
- d. All of the above are true.

ANS: B

DIF: memorization

TOP: Structure of Spinal Nerves

CHAP: Back

- 54. Which is not true of the posterior root?
- a. It is also called the *dorsal root*.
- b. It includes the spinal ganglion.
- c. It includes sensory fibers.
- d. All of the above are true.

ANS: D

DIF: memorization

TOP: Structure of the Spinal Nerves

CHAP: Back

- 55. Which region of the spinal cord does not contribute nerves to a plexus?
- a. cervical
- b. thoracic
- c. lumbar
- d. all of the above regions contribute to a plexus

ANS: D

DIF: application

TOP: Nerve Plexuses/Brachial Plexus

- 56. The part of the nervous system that transmits impulses from the CNS to the skeletal muscle is the:
- a. somatic motor nervous system.
- b. autonomic nervous system.
- c. central nervous system.
- d. afferent division.

ANS: A

DIF: memorization

TOP: Somatic and Autonomic Nervous Systems

CHAP: Back

- 57. Gray matter in the brain and spinal cord consists primarily of:
- a. nerve fibers.
- b. neuroglia.
- c. axons.
- d. cell bodies.

ANS: D

DIF: memorization TOP: Nerves and Tracts

CHAP: Back

- 58. The white matter of the nervous system is made up of:
- a. myelinated fibers.
- b. nuclei.
- c. unmyelinated fibers.
- d. ganglia.

ANS: A

DIF: memorization TOP: Nerves and Tracts

CHAP: Back

- 59. Nerves that contain mostly afferent fibers are called:
- a. sensory nerves.
- b. motor nerves.
- c. mixed nerves.
- d. Schwann nerves.

ANS: A

DIF: memorization

TOP: Functional Classification

- 60. White matter in the CNS consists of:
- a. myelinated nerve fibers.
- b. neuroglia.
- c. axons.
- d. cell bodies.

ANS: A

DIF: memorization TOP: Nerves and Tracts

CHAP: Back

MATCHING

Match the following terms with their main action.

- a. abductors
- b. adductors
- c. extensors
- d. flexors
- e. pronators
- f. supinators
- 1. _____ increase the angle of a joint.

ANS: C

DIF: application

TOP: Extension and Hyperextension

CHAP: Back

Match the following terms with their main action.

- a. abductors
- b. adductors
- c. extensors
- d. flexors
- e. pronators
- f. supinators
- 2. _____ decrease the angle of a joint.

ANS: D

DIF: application TOP: Flexion CHAP: Back

Match the description of the structure of the synovial joint with the correct term.

- a. articular cartilage
- b. synovial membrane
- c. joint cavity
- d. menisci
- e. fibrous membrane
- f. ligaments
- g. bursae
- 3. _____ A thin layer of cartilage covering the articulating surfaces of the bones.

ANS: A

DIF: memorization

TOP: Structure of Synovial Joints

CHAP: Back

Match the following phrases with the division(s) of the autonomic nervous system most closely described.

- a. sympathetic
- b. parasympathetic
- c. both sympathetic and parasympathetic
- 4. ____ chain of postganglionic neurons

ANS: A

DIF: memorization

TOP: Structure of the Autonomic Nervous System

CHAP: Back

Match the following phrases with the division(s) of the autonomic nervous system most closely described.

- a. sympathetic
- b. parasympathetic
- c. both sympathetic and parasympathetic
- 5. ____ ganglia lie near or in visceral effectors

ANS: B

DIF: memorization

TOP: Structure of the Autonomic Nervous System

CHAP: Back

Match the following phrases with the division(s) of the autonomic nervous system most closely described.

- a. sympathetic
- b. parasympathetic

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Test Bank

DIF: memorization

c. both sympathetic and parasympathetic 6. _____ activated under stress conditions ANS: A DIF: memorization TOP: Functions of the Sympathetic Division CHAP: Back *Match the following phrases with the division(s) of the autonomic nervous system most* closely described. a. sympathetic b. parasympathetic c. both sympathetic and parasympathetic 7. responses are usually widespread, involving many organs ANS: A DIF: memorization TOP: Parasympathetic Postganglionic Neurons CHAP: Back Match the following phrases with the division(s) of the autonomic nervous system most closely described. a. sympathetic b. parasympathetic c. both sympathetic and parasympathetic 8. ____ slows the heart rate ANS: B DIF: memorization **TOP:** Autonomic Functions CHAP: Back *Match the following phrases with the division(s) of the autonomic nervous system most* closely described. a. sympathetic b. parasympathetic c. both sympathetic and parasympathetic 9. ____ associated with "fight-or-flight" response ANS: A

TOP: Functions of the Sympathetic Division

CHAP: Back

Match the following descriptions with the types of neurons.

- a. afferent
- b. efferent
- c. interneuron

10. ____ innervates glands

ANS: B

DIF: application

TOP: Functional Classification

CHAP: Back

Match the following descriptions with the types of neurons.

- a. afferent
- b. efferent
- c. interneuron

11. _____ found completely in brain and spinal cord

ANS: C

DIF: memorization

TOP: Functional Classification

CHAP: Back

Match the following descriptions with the types of neurons.

- a. afferent
- b. efferent
- c. interneuron

12. ____ innervates muscles

ANS: B

DIF: memorization

TOP: Functional Classification

CHAP: Back

Match the following descriptions with the types of neurons.

- a. afferent
- b. efferent
- c. interneuron

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Test Bank 13. ____ carries impulses toward spinal cord and brain ANS: A DIF: memorization **TOP:** Functional Classification CHAP: Back Match the following descriptions with the types of neurons. a. afferent b. efferent c. interneuron 14. _____ connects sensory and motor neurons ANS: C DIF: memorization **TOP:** Functional Classification CHAP: Back *Match the following descriptions with the types of neurons.* a. afferent b. efferent c. interneuron 15. ____ carries sensory impulses only ANS: A DIF: memorization TOP: Reflex Arc CHAP: Back *Match the description of the structure of the synovial joint with the correct term.* a. articular cartilage b. synovial membrane c. joint cavity d. menisci e. fibrous membrane f. ligaments g. bursae 16. _____ Small space between two articulating bones. ANS: C DIF: memorization **TOP: Structure of Synovial Joints**

Match the description of the structure of the synovial joint with the correct term. a. articular cartilage b. synovial membrane c. joint cavity d. menisci e. fibrous membrane f. ligaments	
g. bursae	
17 Secretes a lubricating fluid into the joint capsule.	
ANS: B	
DIF: memorization	
TOP: Structure of Synovial Joints	
CHAP: Back	
Match the description of the structure of the synovial joint with the correct term. a. articular cartilage	
b. synovial membrane	
c. joint cavity	
d. menisci	
e. fibrous membrane	
f. ligaments	
g. bursae	
18 Pads of fibrocartilage between articulating bones.	
ANS: D	
DIF: memorization	
TOP: Structure of Synovial Joints	
CHAP: Back	
Match the description of the structure of the synovial joint with the correct term.	
a. articular cartilage	
b. synovial membrane	
c. joint cavity	
d. menisci	
e. fibrous membrane	
f. ligaments	
g. bursae	
19 Strong cords of dense white connective tissue which help stabilize a join	ıt.
ANS: F	
1110.1	

DIF: memorization

TOP: Structure of Synovial Joints

CHAP: Back

Match the description of the structure of the synovial joint with the correct term.

- a. articular cartilage
- b. synovial membrane
- c. joint cavity
- d. menisci
- e. fibrous membrane
- f. ligaments
- g. bursae
- 20. _____These structures cushion and facilitate movement in a joint.

ANS: G

DIF: memorization

TOP: Structure of Synovial Joints

CHAP: Back

Match the description of the structure of the synovial joint with the correct term.

- a. articular cartilage
- b. synovial membrane
- c. joint cavity
- d. menisci
- e. fibrous membrane
- f. ligaments
- g. bursae
- 21. _____ These pads divide the joint cavity into two cavities.

ANS: D

DIF: memorization

TOP: Structure of Synovial Joints

CHAP: Back

Match the description of the structure of the synovial joint with the correct term.

- a. articular cartilage
- b. synovial membrane
- c. joint cavity
- d. menisci
- e. fibrous membrane
- f. ligaments
- g. bursae

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Test Bank 2-:
22 A sleevelike extension of the periosteum of each of the articulating bones in a joint.
ANS: E
DIF: memorization
TOP: Structure of Synovial Joints CHAP: Back
Match the description of the structure of the synovial joint with the correct term.
a. articular cartilage
b. synovial membrane
c. joint cavity
d. menisci e. fibrous membrane
f. ligaments
g. bursae
23 A moist, slippery membrane that lines the inner bone surface of a joint capsule.
ANS: B
DIF: memorization
TOP: Structure of Synovial Joints CHAP: Back
Match the description of the structure of the synovial joint with the correct term.
a. articular cartilage
b. synovial membrane
c. joint cavity
d. menisci
e. fibrous membrane f. ligaments
g. bursae
24 These grow between the bones of a joint, holding them together more firmly than a joint capsule alone.
ANS: F
DIF: memorization
TOP: Structure of Synovial Joints
CHAP: Back

Match the following muscles with their action.
a. abduction

- b. adduction
- c. flexion
- d. extension

CLICK HERE TO ACCESS THE COMPLETE Test Bank

Test Bank 2-40

25. _____ semispinalis capitis

ANS: D

DIF: application

TOP: Selected Muscles Grouped According to Function