MULTIPLE CHOICE

- 1. Which of the following is a foramen contained within the sphenoid bone?
 - a. Foramen lacerum
 - b. Foramen ovale
 - c. Jugular foramen
 - d. Mental foramen

ANS: B

OBJ: Identify the location and unique structures of each cranial and facial bone.

- 2. The cribriform plate is part of which cranial bone?
 - a. Sphenoid
 - b. Temporal
 - c. Ethmoid
 - d. Occipital

ANS: C

OBJ: Identify the location and unique structures of each cranial and facial bone.

- 3. The lower portion of the bony nasal septum is formed by which facial bone?
 - a. Maxilla
 - b. Vomer
 - c. Palatine bone
 - d. Lacrimal bone

ANS: B

OBJ: Identify the location and unique structures of each cranial and facial bone.

4. The zygomatic arch is formed by the zygoma and the:

- a. Maxilla
- b. Parietal bone
- c. Temporal bone
- d. Mandible

ANS: C

OBJ: Identify the location and unique structures of each cranial and facial bone.

- 5. The anterior surface of the temporomandibular articular disk attaches to which muscle?
 - a. Temporalis
 - b. Medial pterygoid
 - c. Lateral pterygoid
 - d. Masseter

ANS: C OBJ: Describe the structures that constitute the temporomandibular joint.

- 6. The osteomeatal unit is located in which portion of the maxillary sinus?
 - a. Superior medial

- b. Superior lateral
- c. Inferior medial
- d. Inferior lateral

ANS: A OBJ: Identify the structures of the osteomeatal unit.

- 7. Which of the following is a structure of the osteomeatal unit?
 - a. Vestibule
 - b. Oval window
 - c. Uncinate process
 - d. Condyloid process

ANS: C OBJ: Identify the structures of the osteomeatal unit.

8. Which of the following are the structures of the inner ear?

- a. Semicircular canals, malleus, vestibule
- b. Cochlea, incus, oval window
- c. Vestibule, cochlea, malleus
- d. Semicircular canals, cochlea, vestibule

ANS: D

OBJ: Identify the structures of the external, middle, and inner ear and describe their functions.

- 9. Which opening is located between the greater and lesser wings of the sphenoid bone?
 - a. Superior orbital fissure
 - b. Optic canal
 - c. Inferior orbital fissure
 - d. Optic foramen

ANS: A OBJ: Identify the bones that form the orbit and their associated openings.

- 10. Which of the following is not a muscle of the eye?
 - a. Superior rectus
 - b. Lateral rectus
 - c. Superior oblique
 - d. Lateral oblique

ANS: D OBJ: List the muscles of the eye and describe their functions and locations.

- 11. Which of the following cranial bones form the largest portion of the sides of the cranium?
 - a. Parietal bones
 - b. Temporal bones
 - c. Occipital bones
 - d. Sphenoid bones

ANS: A

- 12. The parietal bones articulate with the _____, and temporal bones.
 - a. Ethmoid, frontal, occipital
 - b. Sphenoid, occipital, frontal
 - c. Ethmoid, frontal, maxillary
 - d. Sphenoid, frontal, maxillary

ANS: B

OBJ: Identify the location and unique structures of each cranial and facial bone.

- 13. The lateral masses and the superior and middle nasal conchae are part of which cranial bone?
 - a. Ethmoid
 - b. Sphenoid
 - c. Temporal
 - d. Frontal

ANS: A

OBJ: Identify the location and unique structures of each cranial and facial bone.

- 14. Which structure of the sphenoid bone houses the pituitary gland?
 - a. Foramen ovale
 - b. Pterygoid process
 - c. Sella turcica
 - d. Anterior clinoid process

ANS: C

OBJ: Identify the location and unique structures of each cranial and facial bone.

- 15. The petrosal nerve passes through the:
 - a. Foramen rotundum
 - b. Foramen spinosum
 - c. Optic canal
 - d. Pterygoid canal

ANS: D

OBJ: Identify the location and unique structures of each cranial and facial bone.

- 16. The foramen magnum is a structure of which cranial bone?
 - a. Sphenoid
 - b. Ethmoid
 - c. Frontal
 - d. Occipital

ANS: D

OBJ: Identify the location and unique structures of each cranial and facial bone.

- 17. The hypoglossal canals are located within which cranial bone?
 - a. Sphenoid
 - b. Ethmoid
 - c. Frontal
 - d. Occipital

ANS: D

- 18. Cranial nerve XII passes through the _____ canal.
 - a. Vidian
 - b. Pterygoid

- c. Hypoglossal
- d. Optic

ANS: C

OBJ: Identify the location and unique structures of each cranial and facial bone.

- 19. The basilar portion of the occipital bone forms the anterior margin of the foramen magnum and slopes superiorly and anteriorly to meet with the dorsum sella to form which structure?
 - a. Clivus
 - b. Lateral condyle
 - c. Internal occipital protuberance
 - d. Sella turcica

ANS: A

OBJ: Identify the location and unique structures of each cranial and facial bone.

- 20. Which portion of the temporal bone is pyramidal in shape and situated at an angle between the sphenoid and occipital bones?
 - a. Squamous
 - b. Tympanic
 - c. Mastoid
 - d. Petrous

ANS: D

OBJ: Identify the location and unique structures of each cranial and facial bone.

- 21. The internal auditory canal transmits cranial nerves:
 - a. VI and VII
 - b. VII and VIII
 - c. VIII and IX
 - d. IX and X

ANS: B

OBJ: Identify the structures of the external, middle, and inner ear and describe their functions.

- 22. The stylomastoid foramen constitutes the end of the _____ canal.
 - a. Optic
 - b. Pterygoid
 - c. Facial nerve
 - d. Hypoglossal

ANS: C

OBJ: Identify the location and unique structures of each cranial and facial bone.

- 23. The middle ear, or tympanic cavity, communicates with _____ and the nasopharynx.
 - a. The mastoid antrum
 - b. The frontal sinus
 - c. The sphenoid sinus
 - d. Meckel's cave

ANS: A

OBJ: Identify the structures of the external, middle, and inner ear and describe their functions.

- 24. Which structure of the inner ear is responsible for hearing?
 - a. Vestibule
 - b. Semicircular canal
 - c. Incus
 - d. Cochlea

ANS: D

OBJ: Identify the structures of the external, middle, and inner ear and describe their functions.

- 25. Two openings of the vestibule are the:
 - a. Round window and internal auditory canal
 - b. Oval window and internal auditory canal
 - c. Oval window and vestibular aqueduct
 - d. Round window and vestibular aqueduct

ANS: C

OBJ: Identify the structures of the external, middle, and inner ear and describe their functions.

- 26. Which suture is located posterior in the cranium and joins the occipital and parietal bones?
 - a. Squamous
 - b. Coronal
 - c. Sagittal
 - d. Lambdoidal

ANS: D OBJ: Identify the cranial sutures.

- 27. Which of the following is a point on the skull that corresponds to the posterior end of the parietomastoid suture?
 - a. Asterion
 - b. Pterion
 - c. Bregma
 - d. Lambda

ANS: A OBJ: Identify the cranial sutures.

- 28. The term for the anterior fontanel is the:
 - a. Asterion
 - b. Pterion
 - c. Bregma
 - d. Lambda

ANS: C OBJ: Describe the six fontanels within the infant cranium.

29. Which fontanel is located at the junction of the parietal and occipital bones?

- a. Asterion
- b. Pterion
- c. Bregma
- d. Lambda

ANS: D OBJ: Describe the six fontanels within the infant cranium.

30. The infraorbital foramen is part of which facial bone?

- a. Mandible
- b. Maxillary
- c. Zygomatic
- d. Nasal

ANS: B

OBJ: Identify the location and unique structures of each cranial and facial bone.

- 31. The ethmoid sinuses are contained in which portion of the ethmoid bone?
 - a. Body
 - b. Vertical portion
 - c. Horizontal portion
 - d. Lateral masses

ANS: D

OBJ: Identify the location of each paranasal sinus and the meatus into which it drains.

- 32. The frontal sinuses drain into the:
 - a. Sphenoethmoidal recess
 - b. Superior nasal meatus
 - c. Middle nasal meatus
 - d. Inferior nasal meatus

ANS: C

OBJ: Identify the location of each paranasal sinus and the meatus into which it drains.

- 33. Which cranial fossa is formed primarily by the body of the sphenoid and temporal bones and houses the pituitary gland, hypothalamus, and temporal lobes of the brain?
 - a. Anterior
 - b. Posterior
 - c. Middle
 - d. Lateral

ANS: C OBJ: Differentiate between the three cranial fossae.

- 34. Which cranial fossa is formed by the occipital and temporal bones and contains the cerebellum and brainstem?
 - a. Anterior
 - b. Posterior
 - c. Middle
 - d. Lateral

ANS: B OBJ: Differentiate between the three cranial fossae.

The following questions refer to the figure below of a coronal CT of the ethmoid bone.



- 35. Which line points to the ethmoid sinuses?
 - a. A
 - b. B
 - c. C
 - d. D

ANS: C

OBJ: Identify the location of each paranasal sinus and the meatus into which it drains.

- 36. Which line points to the vomer?
 - a. A
 - b. B
 - c. C
 - d. D
 - ANS: B

OBJ: Identify the location and unique structures of each cranial and facial bone.

- 37. Which line points to the cribriform plate?
 - a. A
 - b. B
 - c. C
 - d. D

ANS: A

OBJ: Identify the location and unique structures of each cranial and facial bone.

38. Which line points to the middle nasal meatus?

- a. A
- b. B
- c. C
- d. D

ANS: D OBJ: Identify the structures of the osteomeatal unit.

The following questions refer to the figure below of an axial CT of the orbit.



- 39. Which line points to the dorsum sellae?
 - a. A
 - b. B
 - c. C
 - d. D

ANS: D

OBJ: Identify the location and unique structures of each cranial and facial bone.

- 40. Which line points to the optic canal?
 - a. A
 - b. B
 - c. C
 - d. D

ANS: A OBJ: Identify the bones that form the orbit and their associated openings.

- 41. Which line points to the anterior clinoid process?
 - a. A
 - b. **B**
 - c. C
 - d. D
 - ANS: B

OBJ: Identify the location and unique structures of each cranial and facial bone.

- 42. Which line points to the zygoma?
 - a. A
 - b. B
 - c. C
 - d. D

ANS: C OBJ: Identify the bones that form the orbit and their associated openings.

The following questions refer to the figure below of an axial CT of the temporal bone.



- 43. Which line points to the carotid canal?
 - a. A
 - b. B
 - c. C
 - d. D

ANS: A

OBJ: Identify the location and unique structures of each cranial and facial bone.

- 44. Which line points to the jugular foramen?
 - a. A
 - b. B
 - c. C
 - d. D
 - ANS: B

OBJ: Identify the location and unique structures of each cranial and facial bone.

- 45. Which line points to the sphenoid sinus?
 - a. A
 - b. B
 - c. C
 - d. D
 - ANS: C

OBJ: Identify the location of each paranasal sinus and the meatus into which it drains.

- 46. Which line points to the inferior orbital fissure?
 - a. A
 - b. B
 - c. C
 - d. D

ANS: D OBJ: Identify the bones that form the orbit and their associated openings.

The following questions refer to the figure below of a coronal CT of the orbit.



- 47. Which line points to the temporalis muscle?
 - a. A
 - b. B
 - c. C
 - d. D

ANS: C OBJ: List the muscles of the eye and describe their functions and locations.

- 48. Which line points to the inferior rectus muscle?
 - a. A
 - b. B
 - c. C
 - d. D

ANS: B OBJ: List the muscles of the eye and describe their functions and locations.

- 49. Which line points to the superior oblique muscle?
 - a. A
 - b. B
 - c. C
 - d. D

ANS: A OBJ: List the muscles of the eye and describe their functions and locations.

The following questions refer to the figure below of a sagittal CT reformat of the cranium.



- 50. Which line points to the frontal sinus?
 - a. A
 - b. B
 - c. C

d. D

ANS: A

OBJ: Identify the location of each paranasal sinus and the meatus into which it drains.

- 51. Which line points to the sphenoid sinus?
 - a. A
 - b. B
 - c. C
 - d. D
 - ANS: B

OBJ: Identify the location of each paranasal sinus and the meatus into which it drains.

- 52. Which line points to the clivus?
 - a. A
 - b. B
 - c. C
 - d. D

ANS: C

OBJ: Identify the location and unique structures of each cranial and facial bone.

- 53. Which line points to the occipital bone?
 - a. A
 - b. B
 - c. C
 - d. D

ANS: D

OBJ: Identify the location and unique structures of each cranial and facial bone.

The following questions refer to the figure below of the coronal CT of the dorsum sella.



- 54. Which line points to the temporal bone?
 - a. A
 - b. B
 - c. C
 - d. D

ANS: A

OBJ: Identify the location and unique structures of each cranial and facial bone.

55. Which line points to the posterior clinoid process?

- a. A
- b. **B**
- c. C
- d. D
- ANS: B

OBJ: Identify the location and unique structures of each cranial and facial bone.

- 56. Which line points to the condyloid process of the mandible?
 - a. A
 - b. B
 - c. C
 - d. D

ANS: C OBJ: Describe the structures that comprise the temporomandibular joint.

- 57. Which line points to the foramen lacerum?
 - a. A
 - b. B
 - c. C
 - d. D
 - ANS: D

OBJ: Identify the location and unique structures of each cranial and facial bone.

The following questions refer to the figure below of an axial CT of the inner ear.



- 58. Which line points to the mastoid antrum?
 - a. A
 - b. B
 - c. C
 - d. D
 - e. E



OBJ: Identify the structures of the external, middle, and inner ear and describe their functions.

59. Which line points to the incus?

- a. A
- b. B
- c. C
- d. D
- e. E

ANS: B

OBJ: Identify the structures of the external, middle, and inner ear and describe their functions.

- 60. Which line points to the malleus?
 - a. A
 - b. B
 - c. C
 - d. D
 - e. E
 - ANS: C

OBJ: Identify the structures of the external, middle, and inner ear and describe their functions.

- 61. Which line points to the vestibule?
 - a. A
 - b. B
 - c. C
 - d. D
 - e. E
 - ANS: D

OBJ: Identify the structures of the external, middle, and inner ear and describe their functions.

- 62. Which line points to the internal auditory canal (IAC)?
 - a. A
 - b. B
 - c. C
 - d. D
 - e. E

ANS: E

OBJ: Identify the structures of the external, middle, and inner ear and describe their functions.

The following questions refer to the figure below of an axial CT of the inner ear.



- 63. Which line points to the external auditory meatus (EAM)?
 - a. A
 - b. B
 - c. C
 - d. D
 - ANS: A

OBJ: Identify the structures of the external, middle, and inner ear and describe their functions.

- 64. Which line points to the malleus?
 - a. A
 - b. B
 - c. C
 - d. D
 - ANS: B

OBJ: Identify the structures of the external, middle, and inner ear and describe their functions.

- 65. Which line points to the cochlea (basal turn)?
 - a. A
 - b. B
 - c. C
 - d. D

ANS: C

OBJ: Identify the structures of the external, middle, and inner ear and describe their functions.

- 66. Which line points to the carotid canal?
 - a. A
 - b. B
 - c. C
 - d. D

ANS: D

OBJ: Identify the location and unique structures of each cranial and facial bone.

The following questions refer to the figure below of a coronal CT reformat of the inner ear.



- 67. Which line points to the external auditory meatus (EAM)?
 - a. A
 - b. B
 - c. C
 - d. D
 - e. E

ANS: A

OBJ: Identify the structures of the external, middle, and inner ear and describe their functions.

- 68. Which line points to the incus?
 - a. A
 - b. B
 - c. C
 - d. D
 - e. E

ANS: B

OBJ: Identify the structures of the external, middle, and inner ear and describe their functions.

- 69. Which line points to the superior semicircular canal?
 - a. A
 - b. B
 - c. C
 - d. D
 - e. E

ANS: C

OBJ: Identify the structures of the external, middle, and inner ear and describe their functions.

- 70. Which line points to the cochlea (basal turn)?
 - a. A
 - b. B
 - c. C

- d. D
- e. E
- ANS: D

OBJ: Identify the structures of the external, middle, and inner ear and describe their functions.

- 71. Which line points to the internal auditory canal (IAC)?
 - a. A
 - b. B
 - c. C
 - d. D
 - e. E

ANS: E

OBJ: Identify the structures of the external, middle, and inner ear and describe their functions.

The following questions refer to the figure below of an axial CT of the cranium.



- 72. Which line points to the mastoid air cells?
 - a. A
 - b. B
 - c. C
 - d. D

ANS: A

- 73. Which line points to the frontal bone?
 - a. A
 - b. B
 - c. C
 - d. D
 - ANS: B

OBJ: Identify the location and unique structures of each cranial and facial bone.

- 74. Which line points to the occipital bone?
 - a. A
 - b. B
 - c. C
 - d. D
 - ANS: C

OBJ: Identify the location and unique structures of each cranial and facial bone.

- 75. Which line points to the lambdoidal suture?
 - a. A
 - b. B
 - c. C
 - d. D

ANS: D OBJ: Identify the cranial sutures.

The following questions refer to the figure below of a 3D CT of the oblique aspect of the facial bones.



- 76. Which line points to the zygomatic arch?
 - a. A
 - b. B
 - c. C
 - d. D
 - e. E

ANS: A

- 77. Which line points to the ramus of mandible?
 - a. A
 - b. B
 - c. C
 - d. D
 - e. E

ANS: B

OBJ: Identify the location and unique structures of each cranial and facial bone.

- 78. Which line points to the zygoma?
 - a. A
 - b. B
 - c. C
 - d. D
 - e. E
 - ANS: C

OBJ: Identify the location and unique structures of each cranial and facial bone.

79. Which line points to the mental foramen?

- a. A
- b. B
- c. C
- d. D
- e. E
- ANS: D

OBJ: Identify the location and unique structures of each cranial and facial bone.

80. Which line points to the frontal process of maxilla?

- a. A
- b. B
- c. C
- d. D
- e. E

ANS: E

OBJ: Identify the location and unique structures of each cranial and facial bone.

The following questions refer to the figure below of a coronal CT of the cranium.



- 81. Which line points to the optic canal?
 - a. A
 - b. **B**
 - c. C
 - d. D

ANS: A OBJ: Identify the bones that form the orbit and their associated openings.

- 82. Which line points to the pterygoid process of the sphenoid bone?
 - a. A
 - b. B
 - c. C
 - d. D

ANS: B

OBJ: Identify the location and unique structures of each cranial and facial bone.

- 83. Which line points to the anterior clinoid process of sphenoid bone?
 - a. A
 - b. B
 - c. C
 - d. D
 - ANS: C

- 84. Which line points to the foramen rotundum?
 - a. A
 - b. B
 - c. C
 - d. D

ANS: D

OBJ: Identify the location and unique structures of each cranial and facial bone.

The following questions refer to the figure below of an axial, T1-weighted MRI of the orbit. B C D



- 85. Which of the following lines is pointing to the lens?
 - a. A
 - b. B
 - c. C
 - d. D

ANS: D OBJ: Describe the structures that constitute the globe of the eye.

86. Which of the following lines is pointing to the lacrimal sac?

- a. A
- b. B
- c. C
- d. D

ANS: C OBJ: Describe the structures that constitute the globe of the eye.

- 87. Which of the following lines is pointing to the anterior chamber?
 - a. A
 - b. B
 - c. C
 - d. D
 - ANS: B OBJ: Describe the structures that constitute the globe of the eye.

88. Which of the following lines is pointing to the posterior chamber?

- a. A
- b. B
- c. C
- d. D

ANS: A