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Chapter 1045 Thank actional Sacritonal Afratimaging-professionals-4e-kelley

Kelley: Sectional Anatomy for Imaging Professionals, 4th Edition

MULTIPLE CHOICE

1.	A vertical p	lane that passes	through	the body,	dividing i	it into	anterior	and po	sterior _l	portions,
	is the	plane.								

- a. Sagittal
- b. Coronal
- c. Axial
- d. Oblique

ANS: B

2. The directional term *contralateral* refers to which of the following?

OBJ: Define the four anatomic planes.

- a. On the same side
- b. On the opposite side
- c. Toward the midsagittal plane
- d. Away from the midsagittal plane

ANS: B

OBJ: Describe the relative position of specific structures within the body using directional and regional terminology.

- 3. The directional term *rostral* refers to which of the following?
 - a. The front or palm of the hand
 - b. The sole of the foot
 - c. Toward the feet
 - d. Toward the nose

ANS: D

OBJ: Describe the relative position of specific structures within the body using directional and regional terminology.

- 4. The term *popliteal* refers to the area of the:
 - a. Upper portion of the leg
 - b. Back of the knee
 - c. Lower portion of the leg
 - d. Sole of the foot

ANS: B

OBJ: Describe the relative position of specific structures within the body using directional and regional terminology.

- 5. The term *flank* refers to the area of the:
 - a. Upper chest or breast
 - b. Lower back between the ribs and hips
 - c. Side of the trunk adjoining the lumbar region
 - d. Abdomen

ANS: C

OBJ: Describe the relative position of specific structures within the body using directional and

regional terminology.

6. The aortic arch is located:

	a. 2.5 cm below theb. At T4-T5, sternc. 4 cm above thed. 2 cm above the	al angl transpy	e yloric plane					
	ANS: A	OBJ:	Identify the location of commonly used internal landmarks.					
7.	c. At the upper bo	pyloriourcation order of argin of						
8.	The inferior mesen a. 2 cm above the b. 4 cm above the c. 2.5 cm below the d. 4 cm above the	transpy transpy he jugu	yloric plane yloric plane					
	ANS: D	OBJ:	Identify the location of commonly used internal landmarks.					
9.	e is located in which of the abdominal quadrants? (RUQ) (RLQ) (UQ) (LUQ) (LUQ)							
	ANS: D	OBJ:	List the structures located within the four abdominal quadrants.					
10.	Which of the body a. Dorsal b. Ventral c. Abdominal d. Pelvic	cavitie	s is the largest?					
	ANS: B	OBJ:	Describe the dorsal and ventral cavities of the body.					
11.	The plane that passes diagonally between the axes of two other planes is the plane. Sagittal Coronal Axial Oblique							
	ANS: D	OBJ:	Define the four anatomic planes.					
12.	The directional terma. On the same side. On the opposite	de	al refers to which of the following?					

- c. Toward the feet
- d. Toward the head

ANS: C

OBJ: Describe the relative position of specific structures within the body using directional and regional terminology.

- 13. The directional term *proximal* refers to which of the following?
 - a. On the same side
 - b. On the opposite side
 - c. Away from a reference point
 - d. Toward a reference point

ANS: D

OBJ: Describe the relative position of specific structures within the body using directional and regional terminology.

- 14. The term *axillary* refers to the area of the:
 - a. Armpit
 - b. Forearm
 - c. Front of elbow
 - d. Upper arm

ANS: A

OBJ: Describe the relative position of specific structures within the body using directional and regional terminology.

- 15. The term *cubital* refers to the area of the:
 - a. Lower posterior portion of the leg
 - b. Posterior surface of elbow area of the arm
 - c. Lower back between the ribs and hips
 - d. Upper portion of the leg

ANS: B

OBJ: Describe the relative position of specific structures within the body using directional and regional terminology.

- 16. The term *antebrachial* refers to the area of the:
 - a. Armpit
 - b. Ribs
 - c. Forearm
 - d. Upper arm

ANS: C

OBJ: Describe the relative position of specific structures within the body using directional and regional terminology.

- 17. The term *inguinal* refers to the area of the:
 - a. Spine
 - b. Naval
 - c. Sternum
 - d. Groin

ANS: D

OBJ: Describe the relative position of specific structures within the body using directional and regional terminology.

- 18. The carina is located at:
 - a. L4 to L5.
 - b. T4 to T5, sternal angle.
 - c. L1 to L2.
 - d. T1 to T2, sternal angle.

ANS: B OBJ: Identify the location of commonly used internal landmarks.

- 19. The dorsal cavity can be further subdivided into which of the following cavities?
 - a. Cranial and spinal
 - b. Thoracic and abdominopelvic
 - c. Two lateral pleural
 - d. Abdominal and pelvic

ANS: A OBJ: Describe the dorsal and ventral cavities of the body.

- 20. The stomach and tail of the pancreas are located in which of the following abdominal quadrants?
 - a. Right upper
 - b. Left upper
 - c. Right lower
 - d. Left lower

ANS: B OBJ: List the structures found within the four abdominal quadrants.

- 21. Which of the following is a parameter that allows for the adjustment of the gray scale?
 - a. CT number
 - b. Hounsfield unit
 - c. Window width
 - d. Window level

ANS: C OBJ: Describe the gray scale used in CT and MR imaging.

- 22. Images reconstructed from data obtained along any projection through the cube that result in a sagittal, coronal, transverse, or oblique image are termed:
 - a. Multiplanar reformation
 - b. Shaded surface display
 - c. Maximum intensity projection
 - d. Volume rendering

ANS: A OBJ: Describe MPR, CPR, SSD, MIP, and VR.

- 23. Which of the following techniques can be described as a ray from the camera's view point that is directed to stop at a particular user-defined threshold value?
 - a. Multiplanar reformation
 - b. Shaded surface display
 - c. Maximum intensity projection
 - d. Volume rendering

ANS: B OBJ: Describe MPR, CPR, SSD, MIP, and VR.

24. Water is used as a reference tissue and is given the CT number of:

- a. -1000
- b. -500
- c. 0
- d. +1000

ANS: C OBJ: Describe the gray scale used in CT and MR imaging.

- 25. The transpyloric plane is found midway between the:
 - a. Xiphosternal joint and the pubic symphysis
 - b. Xiphosternal joint and umbilicus
 - c. Tubercles of the iliac crests
 - d. Tubercles of the iliac crests and L3

ANS: B OBJ: List the nine regions of the abdomen.

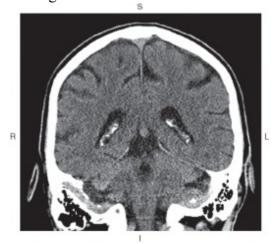
- 26. Which of the following is a midline point at the anterior nasal spine where the upper lip and nasal septum meet?
 - a. Nasion
 - b. Gonion
 - c. Mastoid tip
 - d. Acanthion

ANS: D OBJ: Identify commonly used external landmarks.

- 27. The crest of the ilium is located at what vertebral level?
 - a. L2
 - b. L3
 - c. I.4
 - d. L5

ANS: D OBJ: Identify commonly used external landmarks.

28. The figure below illustrates which of the following imaging planes?

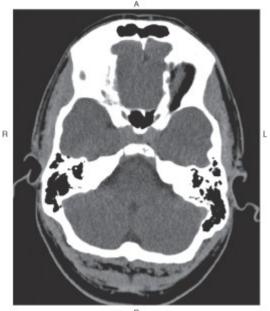


- a. Axial
- b. Coronal
- c. Sagittal

d. Oblique

ANS: B OBJ: Define the four anatomic planes.

29. The figure below illustrates which of the following imaging planes?



- a. Axial
- b. Coronal
- c. Sagittal
- d. Oblique

ANS: A

OBJ: Define the four anatomic planes.

30. The figure below illustrates which of the following imaging planes?



- a. Axial
- b. Coronal
- c. Sagittal
- d. Oblique

31. The figure below illustrates which of the following imaging planes?



- a. Axial
- b. Coronal
- c. Sagittal
- d. Oblique

ANS: C OBJ: Define the four anatomic planes.

32. The figure below is an example of which of the following?



- a. Multiplanar reformation
- b. Shaded surface display
- c. Maximum intensity projection

d. Volume rendering

ANS: B OBJ: Describe MPR, CPR, SSD, MIP, and VR.

33. The figure below is an example of which of the following?



- a. Multiplanar reformation
- b. Shaded surface display
- c. Maximum intensity projection
- d. Volume rendering

ANS: C OBJ: Describe MPR, CPR, SSD, MIP, and VR.

- 34. All of the following image algorithms use the principle of ray-tracing, *except*:
 - a. Shaded surface display (SSD)
 - b. Maximum intensity projection (MIP)
 - c. 2D imaging
 - d. Volume rendering (VR)

ANS: C OBJ: Differentiate between 2D and 3D images.