

Anatomy, Physiology, and Disease, 3e (Colbert/Ankney/Lee)
Chapter 2 The Human Body

2.1 Multiple Choice Questions

1) Knowing the exact body region of a sign or symptom can help a healthcare worker determine the _____.

- A) proper diagnosis
- B) patient's size
- C) extent of injury
- D) proper medication

Answer: A

2) A body in the prone position is _____.

- A) face up
- B) lying on its left side
- C) lying on its right side
- D) face down

Answer: D

3) A plane is an imaginary line dividing the body into _____.

- A) squares
- B) sections
- C) organs
- D) tissues

Answer: B

4) Directional terms are used as _____ within the body.

- A) vertical points
- B) horizontal points
- C) lateral points
- D) reference points

Answer: D

5) The midsagittal plane divides the body into which parts?

- A) Superior and inferior
- B) Internal and external
- C) Right and left
- D) Anterior and posterior

Answer: C

6) What directional term would you use to indicate the ankle if the knee is your point of reference?

- A) External
- B) Distal
- C) Internal
- D) Proximal

Answer: B

7) A young girl falls while riding her bicycle. Initially she seems fine, but later she complains of severe femoral pain. Where is her pain?

- A) Her foot
- B) Her lower leg
- C) Her knee
- D) Her thigh

Answer: D

8) The heart and lungs are located in the _____ cavity.

- A) posterior
- B) abdominal
- C) pelvic
- D) thoracic

Answer: D

9) Which organ is located in a dorsal cavity?

- A) Diaphragm
- B) Brain
- C) Stomach
- D) Pancreas

Answer: B

10) The hypochondriac region is located beneath the _____.

- A) ribs
- B) heart
- C) stomach
- D) liver

Answer: A

11) A woman involved in a high-speed car accident initially seems fine, but soon develops difficulty breathing. You suspect she is bleeding into one of her body cavities. Given her symptoms, which one?

- A) Cranial
- B) Spinal
- C) Thoracic
- D) Abdominal

Answer: C

12) The space within the mouth is known as the _____ cavity.

- A) nasal
- B) orbital
- C) cranial
- D) oral

Answer: D

13) The belly button is located in which region?

- A) Epigastric
- B) Umbilical
- C) Iliac
- D) Hypogastric

Answer: B

14) Pain in the _____ can be a sign of appendicitis.

- A) RUQ
- B) LUQ
- C) RLQ
- D) LLQ

Answer: C

15) The cervical spine contains how many vertebrae?

- A) 12
- B) 7
- C) 5
- D) 3

Answer: B

16) By placing your fingers at the T5 vertebra, you can locate which organ?

- A) Spleen
- B) Kidney
- C) Lung
- D) Brain

Answer: C

17) Blood is most commonly drawn from _____.

- A) deep veins
- B) central veins
- C) superficial veins
- D) deep arteries

Answer: C

18) Fowler's position facilitates _____.

- A) sleeping
- B) all treatments
- C) dizziness
- D) breathing

Answer: D

19) An injury to the abdominopelvic cavity could include injury to the _____.

- A) brain
- B) heart
- C) spleen
- D) sternum

Answer: C

20) The supine position _____.

- A) describes the body lying face upward
- B) is also called the anatomical position
- C) describes the body lying face downward
- D) allows the patient to sit up in bed

Answer: A

21) Because humans stand and move upright, the term *dorsal* can be used in place of the term _____.

- A) *inferior*
- B) *posterior*
- C) *anterior*
- D) *distal*

Answer: B

22) A _____ plane would divide the eyes from the back of the head.

- A) sagittal
- B) frontal
- C) transverse
- D) midsagittal

Answer: B

23) The prone position _____.

- A) describes the body lying face upward
- B) is also called the anatomical position
- C) describes the body lying face downward
- D) helps move secretions from the lungs

Answer: C

24) The _____ contains the heart, lungs, and large blood vessels.

- A) thoracic cavity
- B) abdominopelvic cavity
- C) cranial cavity
- D) spinal cavity

Answer: A

25) The skin is _____ to the bones.

- A) superficial
- B) medial
- C) inferior
- D) deep

Answer: A

26) The opposite of superficial is _____.

- A) deep
- B) inferior
- C) posterior
- D) medial

Answer: A

27) A section that divides the body into mirror images would be a _____.

- A) frontal section
- B) cross section
- C) midsagittal section
- D) transverse section

Answer: C

28) The liver can be found in the _____.

- A) right upper quadrant (RUQ)
- B) left iliac region
- C) hypogastric region
- D) right lower quadrant (RLQ)

Answer: A

29) The ankle is a _____ structure.

- A) central
- B) peripheral
- C) thoracic
- D) superior

Answer: B

30) If you like to sleep on your stomach, you prefer sleeping in the _____ position.

- A) supine
- B) prone
- C) Fowler's
- D) Sims'

Answer: B

31) The _____ vertebrae are located in the neck.

- A) sacral
- B) thoracic
- C) cervical
- D) cranial

Answer: C

32) The lungs are _____ to the heart.

- A) medial
- B) lateral
- C) superficial
- D) peripheral

Answer: B

33) A plane that divides the body into upper and lower portions is a _____ plane.

- A) sagittal
- B) coronal
- C) midsagittal
- D) transverse

Answer: D

34) Trendelenburg position may be contraindicated in patients with _____.

- A) cerebral injury
- B) hypertension
- C) skin disease
- D) lung secretions

Answer: A

35) The thoracic and abdominopelvic cavities are separated by the _____.

- A) ribs
- B) spinal cord
- C) diaphragm
- D) sternum

Answer: C

36) The large, dome-shaped muscle called the diaphragm is used for _____.

- A) circulation
- B) digestion
- C) reproduction
- D) breathing

Answer: D

37) A patient is complaining of pain and the doctor suspects appendicitis. In which quadrant is the pain located?

- A) RUQ
- B) RLQ
- C) LUQ
- D) LLQ

Answer: B

38) Your patient complains of pain in the area of the liver. In which quadrant is the pain located?

- A) LUQ
- B) LLQ
- C) RUQ
- D) RLQ

Answer: C

39) Which imaging technique uses a narrowly focused x-ray beam that circles rapidly around the body?

- A) Magnetic resonance imaging
- B) X-ray
- C) Ultrasound
- D) Computed tomography

Answer: D

40) Severe jugular vein distension while in the upright position could indicate which condition?

- A) Heart failure
- B) Cerebral injury
- C) Appendicitis
- D) Cyanosis

Answer: A

41) In the posteroanterior position, which part of the body is closest to the x-ray film?

- A) Back
- B) Head
- C) Chest
- D) Extremities

Answer: C

42) Which imaging technique allows body activities to be viewed in real time?

- A) X-ray
- B) Ultrasound
- C) CT scan
- D) MRI

Answer: B

43) Areas of the body that are filled with air show up as a _____ region on an x-ray.

- A) radiolucent
- B) radiopaque
- C) white
- D) gray

Answer: A

44) A patient with orthopnea should be placed in which position?

- A) Sims'
- B) Trendelenburg
- C) Supine
- D) Fowler's

Answer: D

45) A patient with _____ should not undergo magnetic resonance imaging.

- A) a fractured bone
- B) a head injury
- C) a prosthetic heart valve
- D) high blood pressure

Answer: C

2.2 True/False Questions

1) A person is in the anatomical position when he or she is standing erect and facing forward, with feet parallel and arms hanging at the side with palms facing backward.

Answer: FALSE

2) Fowler's position is the best position for patients who are having trouble breathing.

Answer: TRUE

3) The prone position is the best position for a pelvic exam.

Answer: FALSE

4) *Cranial* means "superior."

Answer: TRUE

5) *Medial* means "to the side."

Answer: FALSE

6) The nose is inferior to the eyes and superior to the mouth.

Answer: TRUE

7) A patient with central edema has swollen hands and feet.

Answer: FALSE

8) *Peripheral* refers to the torso and head.

Answer: FALSE

9) The opposite of superficial is lateral.

Answer: FALSE

10) The cranial cavity houses the brain.

Answer: TRUE

11) An orbital injury can cause damage to sight.

Answer: TRUE

12) The pubic area is used for cardiopulmonary resuscitation.

Answer: FALSE

13) *Digital* refers to fingers.

Answer: TRUE

14) *Cervical* means "relating to the knee."

Answer: FALSE

15) *Brachial* means "lower leg."

Answer: FALSE

16) One advantage of an MRI is the absence of radiation exposure.

Answer: TRUE

17) On an x-ray, water is denser than bone but less dense than tissue or fat.

Answer: FALSE

18) Orthostatic hypotension occurs when a person changes to a seated position from a standing position.

Answer: FALSE

19) A CT scan allows the clinician to determine the exact location of a suspected tumor in the body.

Answer: TRUE