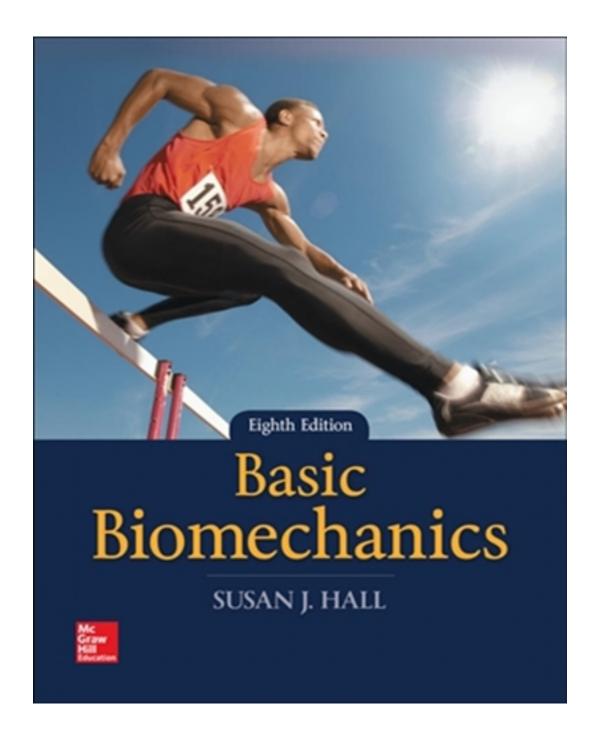
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Test Bank

Basic Biomechanics, 8e (Hall)

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Chapter 2 Kinematic Concepts for Analyzing Human Motion

 Which of the following is not an example of a sagittal plane movement? A) flexion B) hyperextension C) lateral flexion D) plantar flexion
Answer: C Accessibility: Keyboard Navigation
 2) The cardinal frontal plane divides the body into equal A) right and left halves B) front and back halves C) top and bottom halves D) medial and lateral halves
Answer: B Accessibility: Keyboard Navigation
3) Movements in the transverse plane occur around which axis? A) mediolateral B) anteroposterior C) longitudinal D) horizontal
Answer: C Accessibility: Keyboard Navigation
 4) A dancer performs a pirouette in which plane? A) sagittal B) frontal C) transverse D) longitudinal
Answer: C

- 5) Most human movement falls into which category?
- A) rectilinear
- B) curvilinear
- C) angular or rotational
- D) general

Answer: D

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- 6) Which of the following terms best describes translational motion along a curved line?
- A) rectilinear
- B) curvilinear
- C) rotational
- D) general

Answer: B

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- 7) Which of the following motions occurs primarily in the sagittal plane?
- A) running
- B) a cartwheel
- C) a pirouette
- D) All of these answers are correct.

Answer: A

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- 8) Which of the following motions occurs primarily in the frontal plane?
- A) running
- B) cartwheel
- C) pirouette
- D) All of these answers are correct.

Answer: B

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- 9) Abduction occurs in which plane?
- A) sagittal
- B) frontal
- C) transverse
- D) it depends on the action being performed

Answer: B

- 10) Which imaginary cardinal plane bisects the body into right and left halves?
- A) sagittal
- B) frontal
- C) transverse
- D) None of these answers are correct.

Answer: A

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- 11) During the preparatory phase for an underhand softball pitch, the hand holding the ball is drawn behind the body prior to the forward swing of the arm. When the hand is drawn behind the body, which of the following movements occurs at the shoulder?
- A) flexion
- B) extension
- C) hyperextension
- D) circumduction

Answer: C

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- 12) In which of the following planes does a forward roll occur?
- A) sagittal
- B) frontal
- C) transverse
- D) oblique

Answer: A

Accessibility: Keyboard Navigation

- 13) Which of the following are transverse plane movements at the shoulder?
- A) horizontal abduction
- B) medial rotation
- C) both horizontal abduction and medial rotation
- D) None of these answers are correct.

Answer: C

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- 14) Which of the following terms means "farther from the head"?
- A) distal
- B) proximal
- C) superior
- D) inferior

Answer: D

- 15) Which of the following describes the knee joint relative to the ankle joint?
- A) distal
- B) proximal
- C) medial
- D) lateral

Answer: B

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- 16) Which of the following is/are true regarding anatomical reference position?
- A) palms face forward
- B) erect posture
- C) starting position for describing motion
- D) All of these answers are correct.

Answer: D

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- 17) Foot pronation occurs at which joint?
- A) ankle
- B) subtalar
- C) both ankle & subtalar
- D) pronation does not occur in the foot

Answer: B

Accessibility: Keyboard Navigation

- 18) <u>Internal rotation</u> is synonymous with which of the following?
- A) medial rotation
- B) lateral rotation
- C) external rotation
- D) None of these answers are correct.

Answer: A

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- 19) In anatomical position, the forearm is in what position?
- A) pronated
- B) supinated
- C) flexed
- D) abducted

Answer: B

- 20) Which of the following is true regarding horizontal adduction?
- A) also called horizontal flexion
- B) occurs in the transverse plane
- C) both also called horizontal flexion & occurs in the transverse plane
- D) None of these answers are correct.

Answer: C

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- 21) Which of the following is true regarding circumduction?
- A) combines flexion, extension, adduction, and abduction
- B) synonymous with rotation
- C) both combines flexion, extension, adduction, and abduction & synonymous with rotation
- D) None of these answers are correct.

Answer: A

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- 22) Which is true about the Cartesian coordinate system?
- A) It is a special reference system used by biomechanists.
- B) It can be used to describe two-dimensional *or* three-dimensional motion.
- C) Both it is a special reference system used by biomechanists and it can be used to describe two-dimensional *or* three-dimensional motion.
- D) None of these answers are correct.

Answer: C

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- 23) In two-dimensional Cartesian coordinate systems, what unit is used for the vertical axis?
- A) x
- B) y
- C) z
- D) All of these answers are correct.

Answer: B

Accessibility: Keyboard Navigation

- 24) Which of the following could be defined by a movement analyst as a mechanical system?
- A) entire human body
- B) right arm
- C) projected ball
- D) All of these answers are correct.

Answer: D

- 25) What term is used to describe the motion of bringing the foot closer to the lower leg?
- A) flexion
- B) extension
- C) dorsiflexion
- D) plantar flexion

Answer: C

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- 26) Shaking the head "no" involves which of the following movements?
- A) lateral and medial rotation
- B) left and right rotation
- C) internal and external rotation
- D) All of these answers are correct.

Answer: B

Accessibility: Keyboard Navigation

- 27) Which action is *not* an example of sagittal plane movement?
- A) flexion
- B) hyperextension
- C) lateral flexion
- D) plantar flexion

Answer: C

Accessibility: Keyboard Navigation

- 28) Choose the term that describes "involving translation and rotation simultaneously."
- A) frontal axis
- B) frontal plane
- C) general motion
- D) inferior

Answer: C

Accessibility: Keyboard Navigation

- 29) Choose the term that describes "involving rotation around a central line or point."
- A) anatomical position
- B) angular
- C) anterior
- D) axis

Answer: B

- 30) Choose the term that describes "along a straight line."
- A) posterior
- B) proximal
- C) rectilinear
- D) sagittal axis

Answer: C

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- 31) Choose the term that describes an erect standing position with all body parts, including the palms of the hands, facing forward.
- A) anatomical position
- B) angular
- C) anterior
- D) axis

Answer: A

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- 32) Choose the term that describes "toward the back of the body."
- A) medial
- B) posterior
- C) proximal
- D) rectilinear

Answer: B

Accessibility: Keyboard Navigation

- 33) Choose the term that describes "toward the midline of the body."
- A) medial
- B) posterior
- C) proximal
- D) rectilinear

Answer: A

Accessibility: Keyboard Navigation

- 34) Choose the term that describes "further from the trunk."
- A) cardinal planes
- B) curvilinear
- C) deep
- D) distal

Answer: D

35) Choose the term that describes "toward the surface of the body." A) sagittal plane B) superficial C) superior D) system
Answer: B Accessibility: Keyboard Navigation
36) Choose the term that describes the plane in which lateral movements of the body and body segments occur. A) cardinal planes B) sagittal plane C) transverse plane D) frontal plane
Answer: D Accessibility: Keyboard Navigation
37) Choose the term that describes an imaginary line passing from top to bottom through the body and around which transverse plane rotations occur. A) axis B) frontal axis C) longitudinal axis D) sagittal axis
Answer: C Accessibility: Keyboard Navigation
38) The word refers to a description of quality without the use of numbers.
Answer: qualitative Accessibility: Keyboard Navigation
39) Translation is a synonym for motion.
Answer: linear Accessibility: Keyboard Navigation
40) describes motion along a straight line, whereas describes motion along a curved line.
Answer: Rectilinear; curvilinear Accessibility: Keyboard Navigation

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41) Ventral is a synonym for, which means toward the front of the body.
Answer: anterior Accessibility: Keyboard Navigation
42) What are the two main sources of information for the analyst diagnosing a motor skill?
Answer: Answer may vary. Accessibility: Keyboard Navigation
43) Name two ways an analyst can increase his/her knowledge about the mechanics of a motor skill and describe the advantages and disadvantages of each.
Answer: Answer may vary. Accessibility: Keyboard Navigation
44) Describe the steps that should be taken when planning a qualitative analysis.
Answer: Answer may vary. Accessibility: Keyboard Navigation
45) To supplement visual observations, the analyst can often use non-visual information. Describe two examples of auditory information that could be used during a qualitative analysis.
Answer: Answer may vary. Accessibility: Keyboard Navigation
46) The center of mass is located at the intersection of the three cardinal planes.
Answer: TRUE Accessibility: Keyboard Navigation
47) Translation is synonymous with general motion.
Answer: FALSE