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Chapter 02 - The Musculoskeletal System: The Skeletal Framework and Its Movements

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Multiple Choice Questions				
<ol> <li>The epiphyseal plate is:</li> <li>A. the growth area of the long bones</li> <li>B. the flat bone of the skull</li> <li>C. the articular surface of a bone</li> <li>D. the growth area of a flat bone</li> </ol>				
<ul> <li>2. Which of the following joint types is biaxial?</li> <li>A. ball and socket</li> <li>B. hinge</li> <li>C. condyloid</li> <li>D. gliding</li> </ul>				
3. An example of a hinge joint would be the  A. wrist  B. elbow C. hips D. acromioclavicular				
<ul> <li>4. Ligaments act to:</li> <li>A. join muscle to bone</li> <li>B. join bone to bone</li> <li>C. cover the articular surface of the bone</li> <li>D. provide articular lubrication</li> </ul>				

- 5. Which of the following is not a factor in range of motion? A. joint structure B. muscle bulk C. ligamentous structures **D.** segment length 6. Which plane divides the body into right and left halves? A. frontal **B.** sagittal C. horizontal D. cardinal 7. Which of the following illustrates motion in the frontal plane and around the AP axis? A. an overhand throw B. a bowling delivery C. jumping jack exercises D. a discus throw 8. Which of the following movements occurs in a horizontal plane around a vertical axis? A. arm action in golf drive resulting in no spin ball **B.** arm action in tennis forehand resulting in no spin
- 9. Adduction refers to:

D. leg action in walking

- A. movement away from the midline of the body
- **B.** movement toward the midline of the body
- C. movement in two planes

C. leg action in football, no spin

D. reduction of joint angle

- 10. A reduction in joint angle is termed:
  A. abduction
  B. adduction
  C. flexion
  D. extension
- 11. What is circumduction?
  A. combination of movements in two planes
  B. combination of movements in three planes
- C. movement about a longitudinal axis
- D. movement of a segment in a circle
- 12. What is movement away from the midline of the body?
- A. flexion
- B. extension
- C. adduction
- **D.** abduction
- 13. What is action in which the sole of the foot moves away from anterior surface of the lower leg?
- A. inversion
- B. eversion
- C. plantar flexion
- D. dorsiflexion
- 14. Which of the following is correct?
- A. abduction of the humerus--motion in a frontal plane about a vertical axis
- **B.** flexion of the knee--motion in a sagittal plane about a biltaeral axis
- C. forward tilt of the pelvis--motion in a frontal plane about an AP axis
- D. rotation of the head--motion in a frontal plane about a longitudinal axis

- 15. Which of the following defines the center of gravity of the body?
- A. intersection of cardinal sagittal and frontal planes
- B. intersection of cardinal frontal and horizontal planes
- C. intersection of cardinal sagittal and horizontal planes
- **D.** intersection of all 3 cardinal planes

## **Short Answer Questions**

16. Consider the motion of lifting one's foot up in preparation for placing it on a bench. Analyze the joint type, joint motion, plane and axis for movement in the ankle, knee, and hip joints:

	joint type	joint motion	plane and axis
ankle			
knee			
hip			

hinge dorsiflexion sagittal, bilat hinge flexion sagittal, bilat ball socket flexion sagittal, bilat.

17. List three reasons why differences might exist among individuals in range of motion in the following motions. Justify your answers.

knee flexion and hyperextension hip abduction and adduction hip rotation

muscle or fat mass, muscle tension, injury, ligament tension

18. Name the joint actions involved at the ankle, knee, hip, shoulder, and elbow in the propulsion phase of a jumping jack exercise.

ankle plantar flexion, knee extension, hip extension, shoulder abduction

19. Discuss the reasons why it is inadvisable to have young children involved in activities that require hard contact or heavy resistance.

damage to epiphyseal areas of long bones

20. Name and discuss three factors that contribute to joint stability.

bony structure, ligaments, tendons, muscle & soft tissue