## Chapter 8: Articulations and Movement

## I. Naming Joints

A. Explain three different ways joints are named:

1. $\qquad$
2. $\qquad$
3. $\qquad$

## II. Classes of Joints

A. The structural classification of joints is based on:

1. The major type of $\qquad$ that $\qquad$
2. Presence or absence of a $\qquad$
B. The functional classification of joints is based on the degree of $\qquad$
3. Synarthrosis means $\qquad$
4. Amphiarthrosis means $\qquad$
5. Diarthrosis means $\qquad$
C. Fibrous Joints
6. The two bones are united by $\qquad$
7. They have $\qquad$ cavity
8. They exhibit $\qquad$ movement
9. Sutures
a. What are sutures? $\qquad$
b. The tissue between the two bones is $\qquad$
c. What is a sutural ligament composed of? $\qquad$
d. What are fontanels? $\qquad$
10. Fontanels make $\qquad$ \& $\qquad$
e. What forms a synostosis? $\qquad$
11. Syndesmosis
a. The bones are $\qquad$ than in a suture
b. The bones are joined by $\qquad$
c. How much movement occurs at a syndesmosis? $\qquad$
12. Gomphosis
a. Consist of $\qquad$ that fit into $\qquad$ and are held in place by
b. Where would you find a gomphosis? $\qquad$
c. What is a periodontal ligament? $\qquad$
D. Cartilaginous Joints
13. Synchondroses
a. What holds the two bones together? $\qquad$
b. How much movement occurs at a synchondrosis? $\qquad$
c. Give an example of a synchondrosis? $\qquad$
14. Symphyses
a. What holds the two bones together? $\qquad$
b. How much movement occurs at a symphysis? $\qquad$
c. Give an example of a symphysis? $\qquad$
E. Synovial Joints
15. Have a cavity that contains $\qquad$
16. How much movement occurs at a synovial joint? $\qquad$
17. The articulating surfaces of bones is covered with $\qquad$
a. This provides $\qquad$
18. Some joints contain fibrocartilage $\qquad$
a. These provide $\qquad$ \& $\qquad$ to the joint
19. What is the joint capsule? $\qquad$
a. The outer layer of the joint capsule is called $\qquad$
20. This layer is composed of $\qquad$
21. This layer is continuous with $\qquad$
b. The inner layer of the joint capsule is called $\qquad$
22. Describe the composition of this layer $\qquad$
23. This layer produces $\qquad$
24. Synovial fluid is a mixture of $\qquad$ , $\qquad$ , $\qquad$ , \& $\qquad$
25. What is the major polysaccharide in synovial fluid? $\qquad$
a. It provides $\qquad$
26. What is a bursa? $\qquad$
a. Functionally bursa $\qquad$
b. How is bursitis related to bursa? $\qquad$
F. Types of Synovial Joints
27. Define the following terms related to movement occurring at joints:
a. Monoaxial $\qquad$
b. Biaxial $\qquad$
c. Multiaxial
28. Describe the articular surfaces at a gliding joint: $\qquad$
a. What movement is allowed at a gliding joint? $\qquad$
29. Describe the articular surfaces at a saddle joint: $\qquad$
a. What movement is allowed at a saddle joint? $\qquad$
30. Describe the articular surfaces at a hinge joint: $\qquad$
a. What movement is allowed at a hinge joint?
31. Describe the articular surfaces at a pivot joint: $\qquad$
a. What movement is allowed at a pivot joint? $\qquad$
32. Describe the articular surfaces at a ball-and-socket joint: $\qquad$
a. What movement is allowed at a ball-and-socket joint? $\qquad$
33. Describe the articular surfaces at an ellipsoid joint: $\qquad$
a. What movement is allowed at an ellipsoid joint? $\qquad$

## III. Types of Movement

## A. Gliding Movements

1. This movement occurs at $\qquad$ joints
2. Describe the movement $\qquad$
B. Angular Movements
3. Flexion and Extension
a. What direction does flexion move a body part? $\qquad$
b. What direction does extension move a body part? $\qquad$
c. What body part is an exception to these definitions? $\qquad$
4. Define flexion and extension for this structure $\qquad$
d. Describe foot movement in plantar flexion $\qquad$
e. Describe foot movement in dorsiflexion $\qquad$
5. Abduction and Adduction
a. Abduction is $\qquad$
b. Adduction is $\qquad$
c. Describe abduction of the fingers $\qquad$
d. Describe adduction of the fingers $\qquad$
e. What is lateral flexion? $\qquad$
C. Circular Movements
6. Rotation
a. Describe rotation $\qquad$
7. Pronation and Supination
a. Refer to unique rotation of $\qquad$
b. Describe pronation $\qquad$
c. Describe supination $\qquad$
d. During which movement does the radius and ulna cross? $\qquad$
8. Circumduction
a. Is a combination of $\qquad$ , $\qquad$ , $\qquad$ \& $\qquad$
b. Describe circumduction $\qquad$
D. Special Movements
9. Elevation and Depression
a. Elevation moves $\qquad$
b. Depression moves $\qquad$
10. Protraction and Retraction
a. Protraction moves $\qquad$
b. Retraction moves $\qquad$
11. Excursion
a. Describe lateral excursion $\qquad$
b. Describe medial excursion $\qquad$
12. Opposition and Reposition
a. Describe opposition $\qquad$
b. What is reposition? $\qquad$
13. Inversion and Eversion
a. Describe inversion $\qquad$
b. Describe eversion $\qquad$
E. Range of Motion
14. What is active range of motion? $\qquad$
15. What is passive range of motion? $\qquad$
16. The range of motion at a given joint is influenced by:
a. Shape of $\qquad$
b. Amount and shape $\qquad$
c. Strength and location $\qquad$
d. Strength and location $\qquad$
e. Amount of $\qquad$
f. Amount of $\qquad$
g. Amount of $\qquad$

## IV. Description of Selected Joints

A. Temporomandibular Joint (TMJ)

1. This is a joint between the $\qquad$ \& $\qquad$
2. What is located between the 2 bones? $\qquad$
3. The joint is strengthened by $\qquad$ \& $\qquad$ ligaments
4. The joint is a combination $\qquad$ \& $\qquad$ joint
5. Describe the motions allowed at this joint $\qquad$
B. Shoulder Joint
6. This is a $\qquad$ joint
7. The rounded $\qquad$ articulates with $\qquad$
8. What is the glenoid labrum? $\qquad$
9. The stability of the joint is due to 3 sets of $\qquad$ \& 4 $\qquad$
10. What is the rotator cuff? $\qquad$
C. Elbow Joint
11. What is the humeroulnar joint? $\qquad$
12. What is the humeroradial joint? $\qquad$
13. Movement at the elbow is limited by $\qquad$
14. The rotation of the radial head allows $\qquad$ \& $\qquad$
15. List the three ligaments that reinforce this joint:
a. $\qquad$
b. $\qquad$
C. $\qquad$
D. Hip Joint
16. The $\qquad$ articulates with $\qquad$
17. What is the acetabular labrum? $\qquad$
18. What is the transverse acetabular ligament? $\qquad$
19. What does the iliofemoral ligament do? $\qquad$
20. What does the ligamentum teres do? $\qquad$
E. Knee Joint
21. Located between $\qquad$ \& $\qquad$
22. The femur has 2 $\qquad$ \& $\qquad$
23. The tibia is $\qquad$ \& $\qquad$ with a $\qquad$
24. What are menisci and what do they do? $\qquad$
$\qquad$
25. Describe the attachment of the 2 cruciate ligaments $\qquad$
a. The anterior cruciate ligament prevents $\qquad$
b. The posterior cruciate ligament prevents $\qquad$
26. The joint is also strengthened by:
a. $\qquad$ ligaments
b. $\qquad$ ligaments
C. $\qquad$ muscles
F. Ankle Joint and Arches of the Foot
27. What three bones articulate to form the ankle (talocrural) joint?
a. $\qquad$
b. $\qquad$
C. $\qquad$
28. What forms the lateral and medial margins of this joint? $\qquad$
29. Functionally the ligaments of the arch:
a. Hold $\qquad$
b. Provide $\qquad$

## V. Effects of Aging on the Joints

A. What causes thinning of articular cartilage? $\qquad$
B. How is range of motion decreased?

1. Ligaments and tendons $\qquad$
2. Muscles $\qquad$
3. General decrease in $\qquad$
