

# JOINTS

Name: \_\_\_\_\_

Period: \_\_\_\_\_

2. Give the anatomical or structural classification of the following joints. Observe the joints on the articulated skeleton to help you determine the classification.

Joint	Structural Classification (fibrous, cartilaginous, synovial)
knee joint	
pubic symphysis	
inter-vertebral disc	
sutures	
hip joint	
joint between tooth and jaw	
sternoclavicular joint	
shoulder joint	
elbow joint	

3. Fill in the table below by describing the *functional classification* of joints (*freely movable, slightly movable, little or no movement*).

Type of Joint	Mobility at the Joint
synarthrosis	
amphiarthrosis	
diarthrosis	

4. Give the *functional classification* of the following joints.

Joint	Functional Classification (synarthrosis, amphiarthrosis, diarthrosis)
hip joint	
coronal suture	
inter-vertebral disk	
shoulder joint	
lambdoidal suture	
sterno-costal joint	
elbow joint	
pubic symphysis	
knee joint	

3. Label the figure of the knee joint below with the terms in the box.

- femur
- fibula
- tibia
- lateral condyle of the femur
- medial condyle of the femur
- articular cartilages
- medial meniscus
- lateral meniscus
- anterior cruciate ligament (ACL)
- posterior cruciate ligament (PCL)
- lateral (fibular) collateral ligament
- medial (femoral) collateral ligament
- patellar ligament (cut)



(a) Anterior view



(b) Posterior view

**Types of synovial joints**

Use the articulated skeleton to observe structure and movement of the joints and fill in the table below.

Synovial Joint	Name	Location(s) in the Body	Axes of Rotation (describe the movement)

1. Movements of the synovial joints

Team with a classmate and demonstrate the movements of the synovial joints as you read their description from the textbook. Demonstrate and describe.

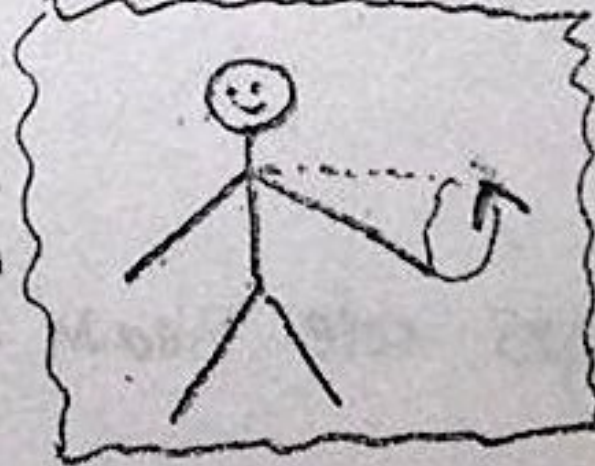
Type of Movement	Demonstrated? ✓	Description of Movement
flexion		
extension		
<del>hyperextension</del>		
adduction		
abduction		
rotation		
circumduction		
supination		
pronation		
<del>elevation</del>		
<del>depression</del>		
<del>protraction</del>		
<del>retraction</del>		

2. Identify the movements of synovial joints in the figures below.

A



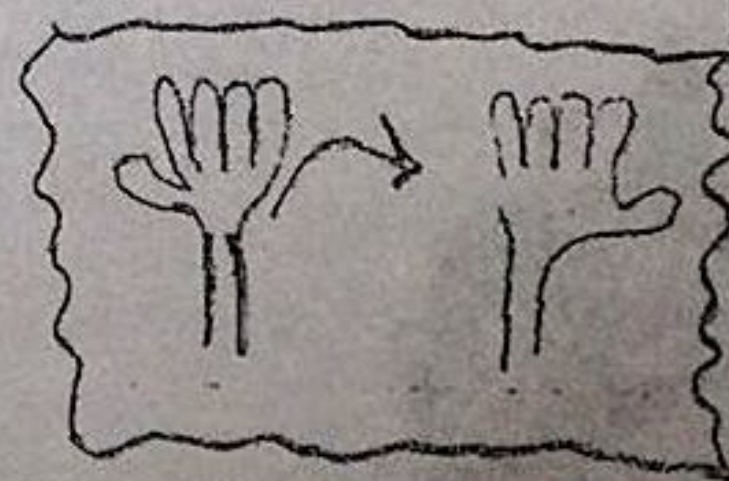
B



D



C



E

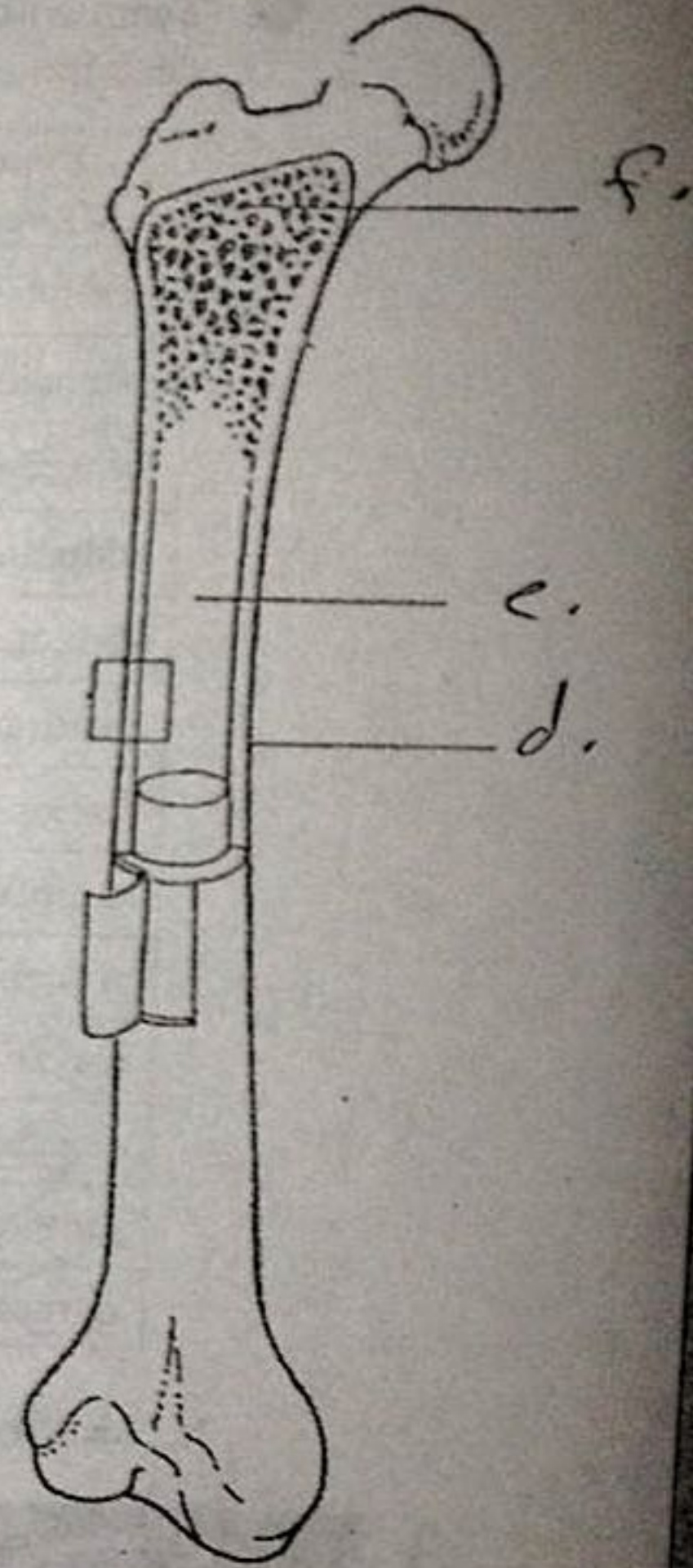
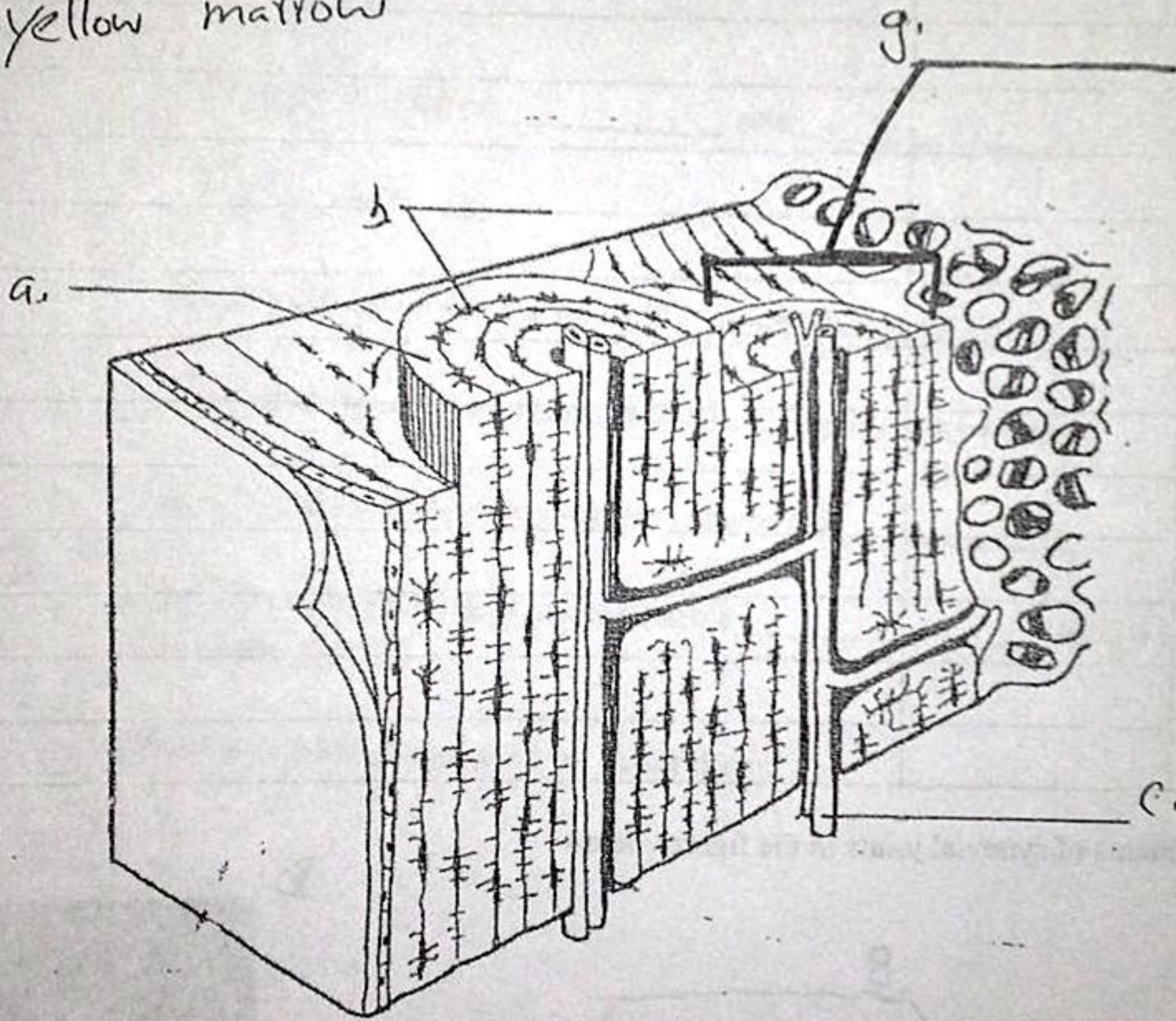


F



18. Use the word bank to label the diagram below. Some words may be extra. Name: \_\_\_\_\_  
 Period: \_\_\_\_\_

- Spongy bone
- Compact bone
- Medullary cavity
- Articular cartilage
- epiphysis
- yellow marrow
- osteon
- lamellae
- lacunae
- central canal
- canaliculi



What synovial joint types are shown for numbers 19 & 20?

19.



20.



21. What is another name for a synovial joint?