

## LABORATORY EXERCISE 17

# THE JOINTS

### MATERIALS NEEDED

textbook  
human skull  
human skeleton, articulated  
models of synovial joints (shoulder, elbow, hip, and  
knee)

#### For Demonstration:

fresh animal joint (knee joint preferred)  
radiographs of major joints

### SAFETY

- Wear disposable gloves when handling the fresh animal joint.
- Wash your hands before leaving the laboratory.

**J**oints are junctions between bones. Although they vary considerably in structure, they can be classified according to the type of tissue that binds the bones together. Thus, the three groups of joints can be identified as (1) fibrous joints, (2) cartilaginous joints, and (3) synovial joints.

Movements occurring at freely movable synovial joints are due to the contractions of skeletal muscles. In each case, the type of movement depends on the kind of joint involved and the way in which the muscles are attached to the bones on either side of the joint.

### PURPOSE OF THE EXERCISE

To examine examples of the three types of joints, to identify the major features of these joints, and to review the types of movements produced at synovial joints.

### LEARNING OBJECTIVES

After completing this exercise, you should be able to

1. distinguish among fibrous, cartilaginous, and synovial joints;

2. identify examples of each type of joint;
3. identify the major features of each type of joint;
4. locate and identify examples of each of the six types of synovial joints;
5. identify the types of movements that occur at synovial joints;
6. describe the structure of the shoulder, elbow, hip, and knee joints.

### PROCEDURE A—TYPES OF JOINTS

1. Review a textbook section on *classification of joints*.
2. Examine the human skull and articulated skeleton to locate examples of the following types of joints:

#### Fibrous joints

syndesmosis  
suture  
gomphosis

#### cartilaginous joints

synchondrosis  
symphysis

#### synovial joints

3. Complete Part A of Laboratory Report 17.
4. Locate examples of the following types of synovial joints in the skeleton. At the same time, examine the corresponding joints in the models and in your own skeleton. Experiment with each joint to experience its range of movements.

ball-and-socket joint  
condyloid joint  
gliding joint  
hinge joint  
pivot joint  
saddle joint

5. Complete Parts B and C of the laboratory report.

# Laboratory Exercise 17 Joints

**M Lipman**



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