

## 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 Answer Key

**M Woodhall**



## Laboratory Exercise 17 Joints Answer Key:

**Laboratory Exercises in Anatomy and Physiology** James Edward Peabody, 1898      **Anatomy and Physiology, Laboratory Manual** Connie Allen, Valerie Harper, 2016-12-28 The Allen Laboratory Manual for Anatomy and Physiology 6th Edition contains dynamic and applied activities and experiments that help students both visualize anatomical structures and understand complex physiological topics Lab exercises are designed in a way that requires students to first apply information they learned and then critically evaluate it With many different format options available and powerful digital resources it is easy to customize this laboratory manual to best fit your course      **Introduction to Orthotics - E-Book** Brenda M. Coppard, Helene Lohman, 2014-11-05 NEW Fabrication processes appear in special boxes to allow for quick reference NEW Fabrication processes forms and grading sheets are included on the Evolve companion website allowing you to create a personalized study guide UPDATED content includes new case studies references evidence based research tables and more on the science of orthotic intervention NEW Additional learning exercises show how to apply theory to practice NEW More integration of patient safety addresses this important aspect of patient care      **Applied Physical Geography** Robert W. Christopherson, Charles E. Thomsen, 2009 This spiral bound geography lab manual is the first in its field to employ Google Earth exercises The Seventh Edition contains newly enhanced stereo pairs and topographical maps and comes packaged with a handy acetate and stereo lenses Latitude Longitude and Time Directions and Compass Readings Map Projections Map Reading and Interpretation Contours and Topographic Maps Earth Sun Relationships Insolation and Seasons Temperature Concepts and Patterns Earth's Atmosphere Pressure Profiles and Pressure Patterns Atmospheric Humidity Stability and Adiabatic Processes Weather Maps Water Balance and Water Resources Global Climate Systems Plate Tectonics Global Patterns and Volcanism Recurrence Intervals for Natural Events Topographic Analysis Fluvial Geomorphology Topographic Analysis Glacial Geomorphology Topographic Analysis Coastal and Arid Geomorphology Topographic Analysis Karst Landscapes Soils Biomes Analyzing Global Terrestrial Ecosystems An Introduction to Geographic Information Systems MARKET For anyone interested in learning more about geography      **Joint Volumes of Papers Presented to the Legislative Council and Legislative Assembly** New South Wales. Parliament, 1905 Includes various departmental reports and reports of commissions Cf Gregory Serial publications of foreign governments 1815 1931      *Catalog of Copyright Entries. Third Series* Library of Congress. Copyright Office, 1954 Includes Part 1 Number 2 Books and Pamphlets Including Serials and Contributions to Periodicals      *17th International Microgravity Measurements Group Meeting*, 1998      [Energy Research Abstracts](#), 1993      *INIS Atomindex*, 1986      **Books and Pamphlets, Including Serials and Contributions to Periodicals** Library of Congress. Copyright Office, 1960      [Catalog of Copyright Entries, Third Series](#), 1954      **The Lancet**, 1876      [Railroad Age Gazette](#), 1891      **AMSTAT News** American Statistical Association, 1998      *Catalog of Copyright Entries* Library of Congress. Copyright Office, 1959      **Railroad Gazette**, 1891      **McGill University Publications** McGill

University,1921      *The Illustrated Carpenter and Builder* ,1880      **Understanding and Managing Arthritis** John L.  
Decker,1987      Army-Navy-Air Force Register and Defense Times ,1928

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