

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.

Joints 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

synostosis
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.

The Joints Laboratory Report 16

Wenbin Ji



The Joints Laboratory Report 16:

Part - Anatomy & Physiology Laboratory Manual - E-Book Kevin T Patton, PhD, 2014-12-02 Effectively master various physiology dissection identification and anatomic explorations in the laboratory setting with the Anatomy Physiology Laboratory Manual 9th Edition This practical full color lab manual contains 55 different A P lab exercises that cover labeling anatomy identification dissection physiological experiments computerized experiments and more The manual also includes safety tips a comprehensive instruction and preparation guide for the laboratory and tear out worksheets for each of the 55 exercises In addition 8 e Lab modules offer authentic 3D lab experiences online for virtual lab instruction 8 interactive eLabs further your laboratory experience in the digital environment Complete list of materials for each exercise offers a thorough checklist for planning and setting up laboratory activities Over 250 illustrations depict proper procedures and common histology slides Step by step guidance for dissection of anatomical models and fresh or preserved specimens with accompanying illustrations helps you become acclimated to the lab environment Physiology experiments centering on functional processes of the human body offer immediate and exciting examples of physiological concepts Easy to evaluate tear out lab reports contain checklists drawing exercises and questions that help you demonstrate your understanding of the labs they have participated in Reader friendly spiral binding allows for hands free viewing in the lab setting Labeling and coloring exercises provide opportunities to identify critical structures examined in the lab and lectures Brief learning aids such as Hints Landmark Characteristics and Safety First are found throughout the manual to help reinforce and apply knowledge of anatomy and function Modern anatomical imaging techniques such as MRIs CTs and ultrasonography are introduced where appropriate Boxed hints and safety tips provide you with special insights on handling specimens using equipment and managing lab activities UPDATED Fresh activities keep the manual current and ensure a strong connection with the new edition of the A P textbook NEW Updated illustrations and design offer a fresh and upbeat look for the full color design and learning objectives NEW Expanded and improved student resources on the Evolve companion website include a new version of the Body Spectrum electronic coloring book

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Introduction to the Design and Behavior of Bolted Joints John H. Bickford,Michael Oliver,2022-12-30 The fully updated Fifth Edition of John H Bickford s classic work updated by Michael Oliver provides a practical detailed guide for the design threaded bolted joints the tightening of threaded joints and the latest design procedures for long term life New sections on materials threads and their strength have been added and coverage of FEA for design analysis is now included Referencing the latest standards this new edition combines fastener materials explanation of how fasteners are made and how fasteners fit together supplementing the basic design coverage included in previous versions of this authoritative text **Introduction to the Design and Behavior of Bolted Joints** Non Gasketed Joints will be of interest to engineers involved in the design and testing of bolted joints *Engineering Monographs* ,1966 **Friction Factors for Large Conduits Flowing Full** United States. Bureau of Reclamation,1965 This monograph is intended to furnish the engineer up to date practical information for accurately estimating the friction losses in large concrete steel and wood stave pipes running full steady flow conditions It summarizes experimental information obtained through field measurements and large scale laboratory experiments which the Bureau of Reclamation has compiled from worldwide sources over a period of years Charts are presented for obtaining friction factors for concrete pipe continuous interior full riveted and spiral riveted steel pipe and wood stave pipe These will assist the designer in predicting the behavior of a particular conduit **Energy Research Abstracts** ,1992 **Engineering Monographs** United States. Bureau of Reclamation,1948 Engineering Monograph ,1965 **Report of the Joint Committee on Tuberculin Test, 1911** Illinois. General Assembly. Joint Committee on Tuberculin Test,1911 **Anatomy and Physiology** Jay Marvin Templin,1989-06 This manual is designed for the student to use in the laboratory portion of an anatomy and physiology course It has a number of features that will help the student learn about the structure and function of the human body Pref Feedback: A compendium of building concepts United States. Department of Housing and Urban Development,1973 Feedback United States. Dept. of Housing and Urban Development. Office of Policy Development and Research,1974 Publications, Reports, and Papers for 1965 from Oak

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National Bureau of Standards. Office of Vehicle Systems Research,1971 *Government-wide Index to Federal Research &*
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