

Biology Study Organizer for Lecture Test 2 **Chapters 6, 7, and 8 (pages 193-196)**

Text Chapter 6: Skeletal System

In lecture we will cover the chapter material that is physiological in nature, leaving the gross anatomy to lab. In addition, we will refer to Chapter 10, "Endocrine System" as needed, since the endocrine system controls the skeletal system's growth and repair.

Reading: pages 110-119, and section 6.9 (pages 143-146, including "Systems Pathology: Osteoporosis")

Also, in Chapter 10, read "Growth Hormone," pages 278; "Thyroid Gland," pages 280-281; "Parathyroid Glands," page 282-284; and "Testes and Ovaries," page 290.

Useful illustrations: 6.1 - 6.9. In Chapter 10, Fig. 10.1 and 10.17.

Lectures: "Skeletal 1 " and "Skeletal 2" Bring your Lecture Outline.

Online Lecture Homework: Chapter 6. See Learn Smart for due date.

After Lecture Study

_____ **Review lecture notes daily!**

_____ **Read/refer to Chapter 6 (and parts of 10),** as above, studying the useful illustrations. Be sure to review the end-of-chapter Summary.

_____ **Review and Comprehension** (end of chapter 6): 1-8.

_____ **Learn to Predict** (found at the beginning of the chapter and within the text): 2, 3, 6 Explanations are in Appendix E.

_____ **Critical Thinking** (end of chapter): 1. Answers are in Appendix D.

_____ **Systems Pathology** (end of chapter) "Osteoporosis," pages 144-145.

Online Learning Center, Student Edition, Chapter 6: Skeletal System

_____ **Animations/Videos:** "Bone growth in width."

Student Study Guide for Chapter 6 (Print a copy.)

_____ **Content Learning Activity:** All on pages 1-4, except A., page 2. Omit pages 5-16, which are lab related.

_____ **Word Parts,** page 18: All.

_____ **Master Learning Activity,** page 19: 1-11 only.

Text Chapter 7: Muscle System

In lecture we will cover the chapter material that is physiological in nature, leaving the gross anatomy to lab.

Reading: pages 150-165, except omit “Excitability of Muscle Fibers,” pages 153-156.

Useful illustrations: Fig. 7.1-7.3, 7.5-7.12; Table 7.1 and 7.2.

Lectures: “Muscle 1, 2 and 3” Bring your Lecture Outline.

Online Lecture Homework: Chapter 7. See Learn Smart for due date.

After Lecture Study

_____ **Review lecture notes daily!**

_____ **Read/refer to Chapter 7**, studying the useful illustrations. Be sure to review the end-of-chapter Summary.

_____ **Review and Comprehension** (end of chapter): 1-8, 11-20.

_____ **Learn to Predict** (found at the beginning of the chapter and within the text):
None.

_____ **Critical Thinking** (end of chapter): 1-3. Answers are in Appendix D.

Online Learning Center, Student Edition, Chapter 7: Muscle System

_____ **Animations/Videos:** (Most of these are toward the bottom of the list of animations.) In order: “Skeletal Muscle Structure and Contraction,” “Overview of Muscle Tissue” (omit cardiac and smooth muscle at the end.), “Sarcomere Shortening,” “Function of the Neuromuscular Junction,” “Action Potentials and Muscle Contraction” (this one is at the top of the list), “Sliding Filament Theory” [Myofilament Contraction].

Student Study Guide for Chapter 7 (Print a copy.)

_____ **Content Learning Activity:** Pages 1-7, except omit “Membrane Potentials,” pages 4 and 5.

_____ **Word Parts:** All.

_____ **Master Learning Activity:** 1-3, 5-13.

Text Chapter 8: Nervous System, pages 193-199

For Lecture Test 2 we will cover only the introductory material of this chapter.

Reading: pages 193-196

Useful illustrations: 8.1-8.6.

Lecture: "Introduction to the Nervous System" Bring Lecture Outline.

Online Lecture Homework: Chapter 8: "Nervous System Introduction" See Learn Smart for due date.

After Lecture Study

_____ **Review lecture notes daily!**

_____ **Read/refer to Chapter 8, pages 193-196**, studying the useful illustrations, including those on pages 197-199. Be sure to review the end-of-chapter Summary.

_____ **Review and Comprehension** (end of chapter): 1-8.

_____ **Learn to Predict** (found at the beginning of the chapter and within the text):
None

_____ **Critical Thinking** (end of chapter): 1. Answers are in Appendix D.

Online Learning Center, Student Edition, Chapter 8: Nervous System

_____ **Animations/Videos:** "Overview of Nervous Tissue"

Student Study Guide for Chapter 8 (Print a copy.)

_____ **Content Learning Activity:** Pages 1, 2, 3, and 4, "Organization of Nervous Tissue" only.

_____ **Word Parts**, page 18: All.

_____ **Master Learning Activity**, page 18: 1-5.

Revised August, 2015