

Biology Study Organizer for Lecture Test 2 **Chapters 6, 7, and 8 (pages 191-194)**

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 109-118, and section 6.9 (pages 143-145, including "Systems Pathology: Osteoporosis")

Also, in Chapter 10, read "Growth Hormone," pages 276; "Thyroid Gland," pages 278-279; "Parathyroid Glands," page 279-284; and "Testes and Ovaries," page 288.

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 McGraw-Hill Connect 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 Apply It/ Apply It** (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."

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 149-164, except omit “Excitability of Muscle Fibers,” pages 154.

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 Apply It/Apply It** (found at the beginning of the chapter and within the text): 1, 5.

_____ **Critical Thinking** (end of chapter): 1-2. 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].

Text Chapter 8: Nervous System, pages 191-194

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

Reading: pages 191-194

Useful illustrations: 8.1-8.6.

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

Online Lecture Homework: Chapter 8: "Nervous System Introduction" See McGraw-Hill Connect for due date.

After Lecture Study

_____ **Review lecture notes daily!**

_____ **Read/refer to Chapter 8, pages 191-194**, studying the useful illustrations, including those on pages 195-197 (top only). Be sure to review the end-of-chapter Summary.

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

_____ **Learn to Apply It/Apply It** (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"