

EXERCISE 9 – OVERVIEW OF BONES AND CARTILAGES

OBJECTIVES

1. To list the two divisions of the skeletal system.
2. To differentiate between compact and spongy bones.
3. To identify the bone shapes and name examples of bones representative of shapes.
4. To identify the major regions and structures of a long bone.
5. To explain the role of the inorganic salts and organic matrix in providing flexibility and hardness to bone.
6. To locate and identify the three major types of cartilages.

NOTES:

I. Divisions of the skeletal system:

- axial
- appendicular

II. Types of osseous tissue:

- compact
- spongy (cancellous)

III. Bone markings:

will be described in details in next 2 bone exercises

IV. Shapes of bones:

- long
- short
- flat
- irregular
- sesamoid

ACTIVITY 1: GROSS ANATOMY OF A LONG BONE

Identify:

- medullary cavity and bone marrow
- diaphysis vs. epiphysis
- endosteum vs. periosteum
- cancellous vs. compact bone tissue

ACTIVITY 2: EFFECTS OF HEAT AND ACID ON BONES - DEMO

Compare the chicken bones placed in 3 different environments.
WHY/HOW has each bone changed.

ACTIVITY 3: MICROSCOPIC STRUCTURE OF COMPACT BONE

Identify Haversian system (osteon):

- osteocytes
- lacunae
- canaliculi
- lamellae
- central canal

ACTIVITY 4: CARTILAGES (review EXERCISE 6)

Locate and identify 3 kinds, locations, functions

Exercise 9 Lab Manual Marieb

Katrin Zwirgmaier



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1. Understanding the eBook Exercise 9 Lab Manual Marieb
 - The Rise of Digital Reading Exercise 9 Lab Manual Marieb
 - Advantages of eBooks Over Traditional Books
2. Identifying Exercise 9 Lab Manual Marieb
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Exercise 9 Lab Manual Marieb
 - User-Friendly Interface
4. Exploring eBook Recommendations from Exercise 9 Lab Manual Marieb
 - Personalized Recommendations
 - Exercise 9 Lab Manual Marieb User Reviews and Ratings
 - Exercise 9 Lab Manual Marieb and Bestseller Lists

5. Accessing Exercise 9 Lab Manual Marieb Free and Paid eBooks
 - Exercise 9 Lab Manual Marieb Public Domain eBooks
 - Exercise 9 Lab Manual Marieb eBook Subscription Services
 - Exercise 9 Lab Manual Marieb Budget-Friendly Options
6. Navigating Exercise 9 Lab Manual Marieb eBook Formats
 - ePub, PDF, MOBI, and More
 - Exercise 9 Lab Manual Marieb Compatibility with Devices
 - Exercise 9 Lab Manual Marieb Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Exercise 9 Lab Manual Marieb
 - Highlighting and Note-Taking Exercise 9 Lab Manual Marieb
 - Interactive Elements Exercise 9 Lab Manual Marieb
8. Staying Engaged with Exercise 9 Lab Manual Marieb
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Exercise 9 Lab Manual Marieb
9. Balancing eBooks and Physical Books Exercise 9 Lab Manual Marieb
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Exercise 9 Lab Manual Marieb
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Exercise 9 Lab Manual Marieb
 - Setting Reading Goals Exercise 9 Lab Manual Marieb
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Exercise 9 Lab Manual Marieb
 - Fact-Checking eBook Content of Exercise 9 Lab Manual Marieb
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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