

Section 46-1

VOCABULARY REVIEW

1. It controls and coordinates body movements and senses, controls consciousness and creativity, helps monitor and maintain other body systems.
2. It provides structure and support, moves trunk and limbs, moves substances through body.
3. It helps maintain homeostasis, regulates metabolism, water and mineral balance, growth and sexual development, and reproduction.
4. It protects against pathogens, helps regulate body temperature.
5. It provides protection against infection and disease.

MULTIPLE CHOICE

1. c 2. a 3. d 4. d 5. c

SHORT ANSWER

1. skeletal, smooth, and cardiac
2. Tissues compose organs, and organs compose organ systems.
3. Connective tissue is characterized by cells that are embedded in matrix.
4. Nervous tissue receives and transmits messages in the form of electrical impulses.
5. Yes; for example, the skin has several functions. As part of the integumentary system, it protects

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Modern Biology Study Guide Answer Key
against pathogens and helps regulate body temperature. As part of the excretory system, it excretes waste products.

STRUCTURES AND FUNCTIONS

1. a, cranial cavity; b, spinal cavity; c, thoracic cavity; d, abdominal cavity
2. the spinal cavity and cranial cavity
3. They protect delicate internal organs and permit some organs, such as the lungs, to expand and contract while remaining securely supported.

Section 46-2

VOCABULARY REVIEW

1. The axial skeleton consists of the skull, ribs, spine, and sternum. The appendicular skeleton consists of bones of the arms, legs, scapula, clavicle, and pelvis.
2. Periosteum covers the bone's surface. Compact bone is the hard material under the periosteum. Both tissues enable bones to withstand stress.
3. Both are contained within the core of a bone.
4. Bones elongate as ossification of cartilage cells occurs at the epiphyseal plates.
5. Ligaments hold the bones of a joint in place.

MULTIPLE CHOICE

1. a 2. c 3. b 4. a 5. d

SHORT ANSWER

1. Bones provide structure and support, give shape and structure to the body, protect internal organs, and provide a framework for muscles.
2. ball and socket, shoulder; hinge joint, elbow; saddle joint, thumb; pivot joint, top two vertebrae of the human spine
3. Red bone marrow produces red and white blood cells, and yellow bone marrow serves as an energy reserve.
4. Bone growth is dependent on the availability of calcium. Therefore, a proper intake of calcium is necessary for bone growth. The bones store calcium. If calcium is needed elsewhere in the body, it is taken from the bones. Therefore, calcium intake is necessary to maintain bone health.

STRUCTURES AND FUNCTIONS

1. a: skull, b: clavicle, c: scapula, d: sternum, e: ribs, f: humerus, g: pelvis, h: radius, i: ulna, j: carpal, k: metacarpals, l: phalanges, m: femur, n: patella, o: tibia, p: fibula, q: tarsals, r: metatarsals, s: phalanges
2. The skeleton provides structure and support, gives shape and structure to the body, protects internal organs, and provides a framework for muscles.
3. Bone cells gradually replace the cartilage at the epiphyseal plates, which are located at the end of long bones and which consist of cartilage cells that divide and form columns, pushing older cells toward the middle of the bone.

Section 46-3

VOCABULARY REVIEW

1. Voluntary muscles can usually be controlled consciously, but involuntary muscles cannot be controlled consciously.
2. The origin is where the muscle attaches to the stationary bone. The insertion is where the muscle attaches to the moving bone.
3. A flexor is a muscle that bends a joint. An extensor is a muscle that straightens a joint.
4. Myosin is a protein that makes up the thick filaments in myofibrils, whereas actin is a protein that makes up the thin filaments of myofibrils.
5. Muscle fatigue is the physiological inability of a muscle to contract. Oxygen debt is a temporary lack of oxygen availability due to sustained strenuous exercise.

MULTIPLE CHOICE

1. b 2. c 3. d 4. a 5. a

SHORT ANSWER

1. through sustained exertion; this occurs if the respiratory and circulatory systems are not able to supply the body with sufficient oxygen to maintain ATP synthesis.
2. Myosin and actin filaments interact to shorten the length of a sarcomere. A nerve impulse causes the heads of the myosin filaments to attach to points between the heads of the actin filaments, bending the heads inward and pulling the actin filaments with them. Synchronized shortening of sarcomeres in a muscle causes the muscle to contract.
3. Skeletal muscle tissue is made of elongated cells called muscle fibers. Each fiber has many nuclei. The fibers are crossed by light and dark stripes, which give the tissue its striped appearance. Smooth muscle tissue is made of spindle-shaped cells with a single nucleus that form sheets of muscle tissue. Smooth muscle is surrounded by connective tissue and is not controlled voluntarily. Cardiac muscle, which makes up the walls of the heart, is striated like skeletal tissue and is involuntary. Each cell has a single nucleus.
4. Antagonistic muscles are muscles that work against one another. Therefore, the contractions of flexors and extensors have opposite effects; extensors open a joint, and flexors close a joint.

STRUCTURES AND FUNCTIONS

1. a, biceps; b, insertion; c, radius; d, ulna; e, origin; f, humerus; g, scapula; h, triceps
2. flexor: bicep; extensor: triceps
3. Insertion of a is the radius. Origin of a is the scapula.

Section 46-4

VOCABULARY REVIEW

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Table of Contents Modern Biology Section 46 1 Answer Key

1. Understanding the eBook Modern Biology Section 46 1 Answer Key
 - The Rise of Digital Reading Modern Biology Section 46 1 Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Modern Biology Section 46 1 Answer Key
 - 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 Modern Biology Section 46 1 Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Modern Biology Section 46 1 Answer Key
 - Personalized Recommendations
 - Modern Biology Section 46 1 Answer Key User Reviews and Ratings
 - Modern Biology Section 46 1 Answer Key and Bestseller Lists
5. Accessing Modern Biology Section 46 1 Answer Key Free and Paid eBooks
 - Modern Biology Section 46 1 Answer Key Public Domain eBooks
 - Modern Biology Section 46 1 Answer Key eBook Subscription Services
 - Modern Biology Section 46 1 Answer Key Budget-Friendly Options

6. Navigating Modern Biology Section 46 1 Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Modern Biology Section 46 1 Answer Key Compatibility with Devices
 - Modern Biology Section 46 1 Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Modern Biology Section 46 1 Answer Key
 - Highlighting and Note-Taking Modern Biology Section 46 1 Answer Key
 - Interactive Elements Modern Biology Section 46 1 Answer Key
8. Staying Engaged with Modern Biology Section 46 1 Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Modern Biology Section 46 1 Answer Key
9. Balancing eBooks and Physical Books Modern Biology Section 46 1 Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Modern Biology Section 46 1 Answer Key
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Modern Biology Section 46 1 Answer Key
 - Setting Reading Goals Modern Biology Section 46 1 Answer Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Modern Biology Section 46 1 Answer Key
 - Fact-Checking eBook Content of Modern Biology Section 46 1 Answer Key
 - 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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