

Module 1: An Organizational Overview and Some Review

Vocabulary:

- Effector** - A structure in the body that can change the value of a variable (7)
- Endocytosis** - The process by which large molecules are taken into the cell (25)
- Exocytosis** - Transportation of material from inside the cell to outside the cell (26)
- Gross Anatomy** - The study of the macroscopic structures of an organism (1)
- Histology** - The study of tissues (2)
- Homeostasis** - A state of equilibrium in the body with respect to its functions, chemical levels, and tissues (5)
- Microscopic anatomy** - The study of the microscopic structures of an organism (1)
- Organ** - A group of tissues specialized for a particular function (4)
- Physiology** - The study of the functions of an organism and its parts (2)
- Selective Permeability** - The ability to let certain materials in or out while restricting others (21)
- Tissues** - Groups of cells specialized for a particular function (4)

Topics:

- Introduction (1)
- Some Terminology (1)
- Organization of the Human Body (2)
- Steady as She Goes! (5)
- A Review of Cell Structure and Organelle Function (10)
- A Review of Protein Synthesis (14)
- A Review of Cellular Mitosis (17)
- The Plasma Membrane (19)
- Functions of the Plasma Membrane (20)
- Membrane Transport (24)
- Study
- Test

Notes:

Module 2: Histology: The Study of Tissues Introduction

Vocabulary:

- Apocrine Glands** - Exocrine glands that have cytoplasm in their secretions (43)
- Chondrocytes** - Mature cartilage cells (50)
- Endocrine Glands** - Ductless glands that secrete hormones into the bloodstream (42)
- Exocrine Glands** - Glands that secrete substances outward through a duct (42)
- Extracellular Matrix** - The chemical substances located between connective tissue cells (46)
- Fibroblasts** - Spindle-shaped cells that form connective tissue proper (47)
- Holocrine Glands** - Exocrine glands whose secretions are made up of disintegrated cells (43)
- Labile Cells** - Cells that undergo mitosis regularly and quickly (55)
- Merocrine Glands** - Exocrine glands that secrete without losing cellular material (43)
- Parenchymal Cells** - Cells that provide the actual function of the tissue (55)
- Permanent Cells** - Cells that cannot undergo mitosis (55)
- Stable Cells** - Cells that do not regularly undergo mitosis but are able to if the need arises (55)
- Stromal Cells** - Cells that provide structure or support for parenchymal cells (55)

Topics:

- Introduction (33)
- Simple Epithelial Tissue (33)
- Stratified Epithelial Tissue (37)
- Experiment 2.1 (40)
- Glandular Epithelium (42)
- Experiment 2.2 (45)
- Connective Tissue (45)
- Connective Tissue Proper (46)
- Cartilage (50)
- Bone and Blood (52)
- Membranes (53)
- Tissue Repair (54)
- Study
- Test

Notes:

Module 3: Skin and Bones - The Integumentary and Skeletal Systems

Vocabulary:

- Appendicular Skeleton** - The portion of the skeleton that attaches to the axial skeleton and has the limbs attached to it (80)
- Articular Cartilage** - Hyaline cartilage that covers the ends of a bone in a joint (78)
- Axial Skeleton** - The portion of the skeleton that supports and protects the head, neck, and trunk (80)
- Cancellous Bone** - Bone with many small spaces or cavities surrounding the bone matrix (77)
- Compact Bone** - Dense bone matrix enclosing only a few small spaces (77)
- Dermis** - Dense irregular connective tissue that forms the deep layer of the skin (62)
- Epidermis** - The outer portion of the skin, formed by epithelial tissue which rests on the dermis (62)
- Foramen** - A hole (86)
- Hemopoiesis** - The process by which the formed elements of blood (blood cells) are made in the body (76)
- Hypodermis** - Loose connective tissue underneath the dermis which connects the dermis to muscle or bone (62)
- Meatus** - A passageway (86)
- Ossification** - Bone formation (78)
- Process** - A projection on a bone (85)
- Sinus** - A hollowed out space in a bone (86)
- Suture** - A junction between flat bones of the skull (85)

Topics:

- Introduction (61)
- The Basic Structure of Skin (61)
- Experiment 3.1 (69)
- Hair and Nails (69)
- Experiment 3.2 (72)
- Skin Glands (73)
- The Skeletal System (75)
- Gross Anatomy of Bones (77)
- An Overview of the Skeletal System (79)
- Details of the Appendicular Skeleton: The Limbs (81)
- Details of the Appendicular Skeleton: The Hands and Feet (82)
- Details of the Axial Skeleton: The Skull (83)
- Details of the Axial Skeleton: The Vertebral Column (87)
- Details of the Axial Skeleton: The Thoracic Cage (89)
- Study
- Test

Notes: