

Physiology Notes

Instructions:

Identify the main function(s) of each body system and then identify the specific functions of each organ listed. Use the Biology textbook and keep it simple. Extra Credit: (1) The disorders and diseases section of each system is optional, but you will receive some bonus points for making the extra effort. (2) You may choose to do this assignment as a presentation with pictures for additional bonus credit.

- I. Integumentary System
 - a. Main Function(s)
 - b. Epidermis
 - c. Dermis
 - d. Hair and Nails
 - e. Damage and Repair
 - f. Disorders and Diseases
- II. Skeletal System
 - a. Main Function(s)
 - b. Axial Skeleton
 - c. Appendicular Skeleton
 - d. Compact and Spongy Bone
 - e. Remodeling of Bone
 - f. Damage and Repair
 - g. Joints
 - h. Disorders and Diseases
- III. Muscular System
 - a. Main Function(s)
 - b. Types of Muscle
 - c. Muscle Contraction
 - d. Muscle Strength
 - e. Disorders and Diseases
- IV. Nervous System
 - a. Main Function(s)
 - b. Neurons
 - c. Central Nervous System
 - d. Peripheral Nervous System
 - i. Somatic Nervous System
 - ii. Autonomic Nervous System
 1. Sympathetic Nervous System
 2. Parasympathetic Nervous System
 - e. The Senses
 - i. Taste and Smell
 - ii. Sight
 - iii. Hearing and Balance
 - iv. Touch
 - f. Effects of Drugs
 - g. Disorders and Diseases



- V. Circulatory System
 - a. Main Function(s)
 - b. Blood Vessels
 - c. The Heart
 - d. Blood Components
 - e. Blood Groups
 - f. Disorders and Diseases
- VI. Respiratory System
 - a. Main Function(s)
 - b. Respiratory Tract (Path)
 - c. Breathing
 - d. Disorders and Diseases
- VII. Excretory System
 - a. Main Function(s)
 - b. Lungs
 - c. Skin
 - d. The Kidney
 - e. Urinary Tract
 - f. Disorders and Diseases
- VIII. Digestive System
 - a. Main Function(s)
 - b. Mouth and Pharynx
 - c. Esophagus
 - d. Stomach
 - e. Small Intestine
 - f. Liver
 - g. Pancreas
 - h. Large Intestine
 - i. Disorders and Diseases
- IX. Endocrine System
 - a. Main Function(s)
 - b. Hormones
 - c. Negative Feedback and Homeostasis
 - d. Pituitary Gland
 - e. Thyroid and Parathyroid Glands
 - f. Pancreas
 - g. Adrenal Glands
 - h. Testicles and Ovaries
 - i. Disorders and Diseases
- X. Reproductive System
 - a. Main Function(s)
 - b. Male Reproductive System
 - i. Testis
 - 1. Sperm Cells
 - 2. Testosterone
 - ii. Scrotum
 - iii. Epididymis
 - iv. Vas Deferens
 - v. Prostate Gland
 - vi. Urethra and Penis
 - c. Female Reproductive System

- i. Ovary
 - 1. Egg Cells
 - 2. Estrogen
 - 3. Progesterone
 - ii. Oviduct
 - iii. Uterus
 - iv. Cervix
 - v. Vagina
 - vi. Menstrual Cycle
- XI. Immune System
 - a. Main Function(s)
 - b. Nonspecific Immunity
 - c. Specific Immunity
 - i. Lymphatic System
 - ii. B Cell Response
 - iii. T Cell Response
 - iv. Passive and Active Immunity
 - d. Disorders and Diseases
 - i. Infections
 - ii. Noninfectious
 - 1. Genetic Disorders
 - 2. Degenerative Diseases
 - 3. Metabolic Diseases
 - 4. Cancer
 - iii. Inflammatory Diseases
 - 1. Allergies
 - 2. Autoimmunity