Human Body Systems

**Digestive System**
Major Parts:
mouth, esophagus, stomach, small intestine, large intestine, rectum, anus, liver, and pancreas

Functions:
The function of the digestive system is to break down food into smaller components, until they can be absorbed and assimilated into the body.

**Circulatory System**
Major Parts:
heart, blood, and blood vessels such as arteries, veins, and capillaries

Functions:
The main function of the respiratory system is the exchange of gases. The act of breathing includes: inhaling and exhaling air in the body; the absorption of oxygen from the air in order to produce energy; and the discharge of carbon dioxide, which is the byproduct of the process.

**Excretory System**
Major Parts:
kidneys, ureters, urinary bladder, urethra, lungs, large intestine, liver, and skin

Functions:
The excretory system is responsible for the elimination of metabolic wastes from the body in a liquid and gaseous state. It is one of the major ways the body maintains homeostasis.

**Skeletal System**
Major Parts:
bones, cartilage, ligaments, and tendons

Functions:
The skeletal system serves as a framework. It provides structure and support to the body. This system acts as a protective structure for vital organs.
**Human Body Systems**

**Muscular System**
- **Major Parts:** skeletal, smooth, and cardiac muscles
- **Functions:** The muscular system facilitates mobility, maintains posture, and helps circulate blood throughout the body. It aids in respiration and digestion as well.

**Integumentary System**
- **Major Parts:** skin, hair, nails, and exocrine glands

**Reproductive System**
- **Major Parts:**
  - **Male:** penis, scrotum, testes, epididymis, vas deferens, prostate, and seminal vesicles
  - **Female:** vagina, uterus, fallopian tubes, and ovaries
- **Functions:** The major function of the reproductive system is to ensure survival of the species. The functions include producing sex cells: eggs in female, and sperms in male, sustaining and transporting the cells, nurturing the developing offspring, and producing hormones.

**Endocrine System**
- **Major Parts:** hypothalamus, pituitary, thyroid, parathyroids, adrenals, pineal, and reproductive organs
- **Functions:** The endocrine glands or the ductless glands secrete hormones that regulate the growth, metabolism, and sexual development of the body. They coordinate the functions of different parts of the body, and also help cope with physical and emotional stress.

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