### Overview of Organ Systems

**Digestive System**

#### Digestive Tract

- **Mouth (oral cavity)**
  - Food is chewed & moistened; polysaccharid digestion begins.

- **Pharynx (throat)**
  - Passageway to both the tubular part of the digestive tract & to the respiratory system.
  - Moves food forward by muscular contraction.

- **Esophagus**
  - Muscular tube.
  - Moves food from pharynx into stomach by peristalsis.

- **Stomach**
  - Here food mixes with gastric fluid & where protein digestion begins. Temporary storage of contents.

- **Small Intestine**
  - Duodenum receives secretions from liver, gallbladder, & pancreas.
  - Most nutrients are digested & absorbed in the jejunum (2nd section of organ). Some nutrients are absorbed in ileum, 3rd section.

- **Large Intestine**
  - Stores & concentrates undigested material. Water & mineral absorption. Called the colon; is divided into ascending, transverse, descending, & sigmoid colon.

- **Rectum**
  - Stores fecal material.

- **Anus**
  - Terminal opening for fecal excretion.

#### Accessory Organs

- **Salivary Glands**
  - Glands that secrete saliva - a fluid with polysaccharid digesting enzymes, mucus, & buffers.

- **Liver**
  - Secretes bile that emulsifies fat; carbohydrate, protein, & fat metabolism.

- **Gallbladder**
  - Stores & concentrates bile.

- **Pancreas**
  - Secretes enzymes which aid in fat, carbohydrate, & protein digestion; secretes buffers.
OVERVIEW OF ORGAN SYSTEMS

RESPIRATORY SYSTEM

Nasal Cavity—Air is warmed, moistened, & filtered; chamber where sound resonates.

Pharynx—tubular structure into which oral & nasal cavity lead; enhances speech.

Larynx (voicebox)—contains vocal cords; sound production

Trachea (windpipe)—airway that connects larynx to bronchi.

Bronchi—Increasingly branched tubes (airways) between trachea and alveoli of lungs

Alveoli—Thin walled air sacs where oxygen & carbon dioxide exchange occurs.

Epiglottis—Cartilage that is part of larynx; closes off larynx during swallowing

Pleural membrane—Thin membrane separating lungs from chest wall

Lungs—lobed, elastic organs or breathing; contains alveoli

Intercostal muscles—contract—allowing inspiration

Diaphragm—contracts allowing inspiration