**Digestive System**

**Chapter 25**

1. **Digestive Process/Function**
   1. **Ingestion**
   2. **Digestion**
   3. **Absorption**
   4. **Compaction**
   5. **Defecation**
2. **Principle vs Accessory Organs**
   1. **Digestive Tract**
   2. **Accessory**
3. **Digestive Tract Layers**
   1. **Mucosa**
   2. **Submucosa**
   3. **Muscularis**
   4. **Serosa**
4. **Anatomy**
5. **Mouth**
   1. **Tongue**
   2. **Palate**
   3. **Teeth**
   4. **Salivary Glands**
6. **Pharynx**
7. **Esophagus**
8. **Stomach**
   1. **Regions**
9. **Histology**
10. **Pancreas**
11. **Liver**
12. **Gall Bladder**
13. **Small Intestine**
    1. **Segments**
14. **Duodenum**
15. **Jejunum**
16. **Ileum**
    1. **Histology**
17. **Circular Folds**
18. **Villi**
19. **Intestinal crypts**
    1. **Absorption**
20. **Large Intestine**
    1. **Gross Anatomy**
    2. **Microscopic Anatomy**
    3. **Intestinal Microbes and Gas**

**Overview of Chemical Digestion**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Carbohydrates | Proteins | Lipids |
| Mouth | Starts digestion of polysaccharides into disaccharides via **Salivary Amylase.** | N/A | N/A |
| Stomach | N/A | **Pepsin** begins breakdown of proteins into peptides. | N/A |
| Small Intestine | Further breakdown of polysaccharides into disaccharides via **Pancreatic Amylase.**  Final breakdown of disaccharides into monosaccharides via **Lactase, Maltase, Sucrase.** | Further breakdown of proteins into peptides via **Trypsin, Chymotrypsin,** and **Carboxypeptidase.**  Final breakdown of peptides into amino acids via **peptidases.** | Emulsification of lipids via **Bile Salts**.  Starts breakdown of triglycerides into monoglycerides and fatty acids via **Pancreatic Lipase**. |