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| <p>Digestion</p> <ol style="list-style-type: none"> 1. Overview <ol style="list-style-type: none"> 1. ingestion 2. propulsion 3. mechanical digestion 4. chemical digestion 5. absorption 6. defecation 2. Mouth & Pharynx <ol style="list-style-type: none"> 1. salivary glands <ol style="list-style-type: none"> 1. amylase 2. antibodies 3. lysozyme 2. teeth <ol style="list-style-type: none"> 1. types <ol style="list-style-type: none"> 1. incisors 2. canines 3. premolars 4. molars 2. are very much alive! 3. tongue <ol style="list-style-type: none"> 1. manipulation 2. bolus making 4. swallowing—"deglutition" 3. Alimentary Canal (esophagus to large intestine) <ol style="list-style-type: none"> 1. mucosa 2. submucosa 3. muscularis externa <ol style="list-style-type: none"> 1. inner circular layer 2. outer longitudinal layer 4. serosa 5. nerve plexuses <ol style="list-style-type: none"> 1. submucosal nerve plexuses 2. myenteric nerve plexuses (local muscle) 3. contain: <ol style="list-style-type: none"> 1. sensory neurons (chemosensory) 2. motor neurons 3. interneurons 4. Esophagus 5. Stomach <ol style="list-style-type: none"> 1. mechanical digestion <ol style="list-style-type: none"> 1. muscles 2. rugae 2. chemical digestion <ol style="list-style-type: none"> 1. pepsinogen to pepsin in acid environment 2. rennin- digests milk protein in infants 6. Pancreas-pancreatic juice <ol style="list-style-type: none"> 1. enzymes <ol style="list-style-type: none"> 1. pancreatic amylase- starch 2. trypsin, chymotrypsin, carboxypeptidase, et al.- proteins 3. lipase- fats 4. nucleases- nucleic acids 2. bicarbonate- <ol style="list-style-type: none"> 1. neutralizes stomach acid (adjusts to ~ pH 8) 2. activates pancreatic and intestinal enzymes 7. Liver <ol style="list-style-type: none"> 1. bile production 8. Gallbladder <ol style="list-style-type: none"> 1. bile storage & release 2. bile emulsifies fats 9. Small intestine <ol style="list-style-type: none"> 1. surface area <ol style="list-style-type: none"> 1. microvilli- "brush border" 2. villi- finger like projections 3. circular folds- "plicae circulares" 2. transport <ol style="list-style-type: none"> 1. active- most substances 2. passive diffusion- lipids- <ol style="list-style-type: none"> 1. capillaries and lymphatic system (lacteals) to liver 3. ileocecal valve 10. Large intestine <ol style="list-style-type: none"> 1. bacterial breakdown <ol style="list-style-type: none"> 1. gas production 2. vitamin production by bacteria 3. absorption by large intestine 2. water reabsorption 11. Rectum | <ol style="list-style-type: none"> 1. voluntary and involuntary components 12. Control 13. Developmental Considerations |
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