**Items to Identify: Digestive System**

**Slides to Identify**

* Slide 137: Esophagus
  + Epithelium, lamina propria, muscularis mucosa, esophageal glands, submucosa, gland ducts, muscularis externa
* Slide 140: Cardiac stomach, with chronic infection
  + Simple columnar epithelium, mucous secretions
* Slide 141: Pyloric stomach, monkey (PAS)
  + Pyloric glands, gastric pits, surface mucous cells
* Slide 145: Fundic stomach
  + Mucosa, epithelium, lamina propria, muscularis mucosa
  + Submucosa, Meissner’s nerve plexus
  + Muscularis externa, Auerbach’s nerve plexus
  + Serosa, adventitia
  + Gastric pits, gastric glands, chief cells, parietal cells, surface mucous cells
  + Auerbach’s plexus, Meissner’s plexus
  + Enteroendocrine cells
* Slide 146: Duodenum, monkey
  + Mucosa, epithelium, lamina propria, muscularis mucosa
  + Submucosa, Meissner’s nerve plexus
  + Muscularis externa, Auerbach’s nerve plexus
  + Serosa, adventitia
  + Brunner’s glands, crypts of Lieberkuhn, Paneth cells
* Slide 147: Pyloroduodenal junction, baboon
  + Pyloric stomach, duodenum, gastric pits, intestinal intervillous space, gastric glands, crypts of Lieberkuhn, goblet cells, brush border
  + Lamina propria, muscularis mucosa, submucosa, muscularis externa
* Slide 148: Ileum
  + Paneth cells, argentaffin cells, goblet cells, brush border
* Slide 152: Duodenum
  + Paneth cells, enteroendorcrine (argentaffin) cells
* Slide 153: Colon, monkey
  + Mucosa, epithelium, lamina propria, muscularis mucosa
  + Submucosa, Meissner’s nerve plexus
  + Muscularis externa, Auerbach’s nerve plexus
  + Serosa, adventitia
  + Lack of intestinal villi, crypts of Lieberkuhn, goblet cells, lymph follicles, fat cells, argentaffin cells
* Slide 204: Appendix
  + No intestinal villi, lymphocyte clusters, argentaffin cells
* Slide 242: Esophagus and trachea, monkey
  + Epithelium, lamina propria, muscularis mucosa, esophageal glands, submucosa, gland ducts, muscularis externa
* Slide 243: Fundic stomach, monkey (PAS)
  + Surface mucous cells, parietal cells, chief cells, enteroendocrine cells
* Slide 244: Fundic stomach, rabbit (toluidine blue)
  + Enteroendocrine cells
* Slide 249: Ileum, monkey (PAS)
  + Paneth cells, argentaffin cells, goblet cells, brush border
* Slide 250: Ileum, monkey
  + Paneth cells, argentaffin cells, goblet cells, brush border
* Slide 437: Cardioesophageal junction
  + Stratified squamous epithelium, simple columnar epithelium, cardio-esophageal junction
* Slide 447: Duodenum, monkey (toluidine blue)
  + Mucosa, epithelium, lamina propria, muscularis mucosa
  + Submucosa, Meissner’s nerve plexus
  + Muscularis externa, Auerbach’s nerve plexus
  + Serosa, adventitia
  + Brunner’s glands, crypts of Lieberkuhn, Paneth cells
  + Goblet cells, brush border
* Slide 32409: Rat intestine (toluidine blue)
  + Muscularis externa, Auerbach’s plexus, submucosa, Meissner’s plexus, capillaries
  + Intestinal absorptive cells, lamina propria, central lacteal
* Slide 32412: Appendix
  + No intestinal villi, lymphocyte clusters, argentaffin cells
* Slide HISTO039: Larynx and esophagus
  + Esophageal epithelium
  + Muscle layers
  + Sub-mucosal glands
* Slide HISTO051: Tongue & Slide HISTO052:
  + Circumvallate papillae with taste buds and glands of Ebner
  + Skeletal muscle
  + Mucous and serous glands
  + Non-keratinized stratified squamous epithelium

**EMs to Identify**

* EM 3: Intestine (basal); 18,400x
  + Intestinal absorptive cells, goblet cells, brush border, mitochondria
* EM 4: Intestine (apical); 18,400x
  + Intestinal absorptive cells, goblet cells, brush border, mitochondria
* EM 4b: Intestinal absorptive cell (apex); 60,000x
  + Intestinal absorptive cells, brush border, cell junctions, mitochondria,
* EM 4c: Intestinal absorptive cell (super nuclear region); 60,000x
  + Intestinal absorptive cells, intercellular spaces
* EM 14: Stomach (chief); 17,000x
  + Chief cells, secretory vesicles
* EM 15: Stomach (parietal); 13,500x
  + Mucous neck cells, mitochondria, intracellular canaliculi of parietal cells, vesicles
* EM 16: Surface mucosa; 13,500x
  + Surface mucous neck cells
* EM 17: Duodenum; 13,500x
  + Intestinal absorptive cells, lamina propria, macrophages, smooth muscle cells, fibroblasts, endothelium , intercellular space, basal lamina