**ONUH UGOCHINYERE NZUBECHUKWU.**

**16/MHS01/206.**

**MLS 408- HISTOPATHOLOGY . (ASSIGNMENT).**

**IN A TABULAR FORM, COMPARE AND CONTRAST SECTIONS OF THE GIT.**

**DIFFERENCES.**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **S/N** |  | **MOUTH** | **PHARYNX** | **ESOPHAGUS** | **STOMACH** | **SMALL INTESTINE** | **LARGE INTESTINE** | **RECTUM** | **ANUS** |
| **1.** | **SIZE** | Varies | 12 – 14 cm | About 25cm | About 12 inches long, 6 inches wide (varies). | About 6 metres. | About 5 feet long | About 12cm | Averagely 2.1cm. |
| **2.** | **MAJOR FUNCTION** | Ingestion, chewing, smiling, etc. | Serves as a pathway for the movement of food from the mouth to the esophagus. | It functions as the conduit for food and liquids that have been swallowed into the pharynx to reach the stomach. | Secretion of acids and enzymes that digest food. | Absorption of nutrients. | Responsible for absorbing water from indigestible food. | Temporary storage of feces. | Removal of feces from the body. |
| **3.** | **pH** | 5.6 – 7.9 (for healthy saliva) | 5.6 should correspond with 3.1 in the esophagus. | About 7.0 | 1.5 – 3.5 | 6.0 – 7.4 | 5.5 – 7.0 | About 7.9 | Not particular |
| **4.** | **EPITHELIAL LINING** | Stratified squamous epithelia | Stratified squamous, pseudostratified with goblet cells | Tough stratified squamous epithelium | Mucus columnar cells | Simple columnar epithelial cells. | Columnar cells | Simple columnar, stratified squamous. | Stratified squamous keratinized epithelium |
| **5.** | **LAYERS** | Mucosa | Mucosa, submucosa, muscularis, serosa | Mucosa, submucosa, muscularis, serosa. | Mucosa, submucosa, muscularis, subserosa, serosa. | Mucosa, submucosa, muscularis, serosa | Mucosa, submucosa, muscularis, serosa | Mucosa, deep mucosa, submucosa, muscularis propria, serosa. | Not specific |
| **6.** | **SECTIONS** | - | 3 – nasopharynx, oropharynx, laryngopharynx | 3 – cervical esophagus, thoracic esophagus, abdominal esophagus | 4 - cardiac, fundus, body, pylorus. | 3 – duodenum, jejunum, ileum | 4 – cecum,colon, rectum, anus. | 3 – rectal ampulla, anal canal, sigmoid colon | 1 – colon |
| **7.** | **PRESENCE OF FOLDS** | - | - | - | Present | Present | Present | Present | Present |
| **8.** | **PRESENCE OF MACROVILLI** | - | - | - | - | Present | - | - | - |
| **9.** | **PRESENCE OF MICROVILLI** | - | - | - | - | Present | - | - | - |

**SIMILARITIES.**

They are all lined by epithelial cells.

Most of them have sections

They all have the mucosa