QUESTION

1. In a tabular form only, compare and contrast the sections of the gastrointestinal tract.

ANSWER

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| --- | --- | --- | --- |
| **Parts of the GIT** | **Type of epithelium** | **Main cell types of epithelium** | **Other distinctive features** |
| Mouth and tongue | Stratified squamous | Squamous cellsSerous cellsMucous cells | Tongue has special papillae:fungiform,circumvallate and filliform |
| Esophagus | Stratified squamous | Squamous cells | Submucosal glands |
| Body/fundus of stomach | Glandular columnar-straight tubular | Surface mucous cellsParietal cellsChief peptic cells | Lymphoid cells with no lymphoid aggregates |
| Pylorus and cardia of stomach | Glandular columnar-coiled branched tubular | Mucous cellsOccasional parietal cells | Lymphoid cells with no lymphoid aggregates |
| Duodenum | Glandular-columnar with villi and crypts of liberkuhn | Enterocyte with microvilliGoblet cells | Brunner’s glandPlicae circularis(distal duodenum) |
| Jejenum and ileum | Glandular-columnar with villi and crypts of liberkuhn | Goblet cellsPaneth cells | Peyer’s patches become more prominent distallyPlicae circularis |
| Colon and rectum | Glandular-straight crypts | Absorptive cellsGoblet cells | Prominent lymphoid tissue |