	Mucosa			Submucosa	Muscle layer	Serosa/ Adventitia
	Epithelium	Lamina Propria	Muscularis Mucosa			
ESOPHAGUS	Non keratinized stratified squamous	Thin layer of loose connective tissue Contains Blood vessels, lymphatics, glands	Thicker, Contains mucous glands in its upper and lower parts	Dense, irregular connective tissue composed of collagen and elastic fibres Thrown into folds due to presence of elastic fibres hence lumen is irregular Contains blood vessels and branched tubuloalveolar mucous glands, **a characteristic feature of esophagus**	**<u>Upper third</u>** Skeletal muscle **<u>Middle third</u>** Skeletal & smooth muscle **<u>Lower third</u>** Purely smooth muscle Outer longitudinal Inner ciruclar	Adventitia present Terminal 1 inch covered by serosa
STOMACH Cardiac Region	Simple columnar Basal oval nuclei Mucous surface cells Goblet cells absent	Small tubular glands that open in gastric pits Lightly stained K/a Mucous secreting cardiac glands	Contains smooth muscles	Broad layer of connective tissue containing blood vessels and nerve plexus (Meissner's plexus)	3 layers Inner oblique (may be absent) Middle circular Outer longitudinal Myentric plexus present	Formed by simple squamous epithelium

Fundus	Simple columnar	Simple tubular glands k/a Gastric or fundic glands Mucous neck cells Parietal or oxyntic cells Chief or zymogen cell Enteroendocrine or APUD cell	Two thin layers Outer longitudinal Inner circular	As in others	Outer longitudinal Middle circular Inner Oblique	Covered by mesothelium
Pyloric region	Simple columnar	Pyloric glands Short, tortuous and branched			Circular muscle thickened and forms pyloric sphincter	
DUODENUM	Columnar with striated border Plica cirucularis Consists of villi Goblet cells present	Crypts of Liberkehn		Highly branched, tubuloacinar duodenal glands k/a **Brunner's glands**	Outer longitudinal and inner circular	Retroperitoneal organ
JEJUNUM	Plica ciruclaris with a tongue shaped vili of different heights Simple columnar with striated border	Goblet cells APUD cells Paneth cells	Two usual layers	No brunners glands No peyer's patches Only connective tissue with blood vessels, nerve plexus and lymphatics	Same as duodenum	Serosa covers completely

ILEUM	Same as jejunum but with few short, finger like villi	Presence of peyer's patches Number increases going distally	Thin or absent	Same	same	Same
APPENDIX	Simple columnar Goblet cells M cells	Presence of Lymphatic nodules which may extend upto submucosa	May be disrupted	Same with lymphatic nodule	Outer circular Inner longitudinal	Complete outer covering
COLON	Smooth No plica Lots of goblet cells Simple columnar epithelium	Tubular glands Goblet cells are principal cells	typical	typical	Outer longitudinal arranged in form of 3 thick bands k/a Taeniae	Transverse colon covered by serosa but part of ascending and descending colons covered by adventitia
RECTUM	Similar to colon Permanent longitudinal folds in lower part	Absence of paneth cells	Only in lower part of rectum	Typical	No taenia Complete longitudinal coat	Retroperitonea
ANAL CANAL	Upper third - Simple columnar Middle third – Stratified non keratinized squamous Lower third - True skin		Disappears below middle third		Internal anal sphincter Longitudinal layer only upto middle third	