	Mucosa (inner most layer)								Adventit	
	Epithelial lining	Lamina propria	Musculari s mucosa	Sub- mucosa	Muscularis externa			ia OR serosa (outer most layer)		
	Non- keratinize d stratified squamou s cells	Loose C.T with mucosal esophagea l glands (in upper and lower end)	Few layers of smooth ms fibers	Loose C.T containing blood vessels, nerves submucos al esophage al glands and meissner's plexus	Inner circular layer			Outer gitudinal	Adventiti	
esophagu s					Upper 1/3: both layers are skeletal muscles	Middl Inner I smoot Outer is ske	ayer is both layers are smooth		a. And serosa in the abdomin al part of the esophag	
					Auerbach's (myenteric) plexus between the 2 layers				us.	
stomach	Mucosa has folds known as <b>RUGAE</b> (disappears in the distended stomach)									
1-Fundus and body of stomach	Simple columnar mucus secreting cells.	C.T invaded by FUNDIC GLANDS with lymphoid elements.	2 layers of smooth muscles.	C.T	Inner oblique		iddle cular longitudi nal		Serosa:	
FUNDIC GLANDS	Have <u>short</u> pits ( <b>1/4 of mucosa</b> ). And composed of <u>5 cell types</u> : 1- parietal. <b>2-peptic (predominant)</b> 3-mucous neck. 4-EE. 5-stem cells.			containing blood vessels, nerves and meissner's	Auerbach's (myenteric) plexus				C.T covered by mesothe lium (simple	
2- pylorus of stomach	Simple columnar mucus secreting cells.	Invaded by PYLORIC GLANDS.	-	Plexus  NO GLANDS!!				Outer gitudinal	sqamous epitheliu m)	
PYLORIC GLANDS.	Have <u>deep</u> pits (1/2 of mucosa) and they are branched and convoluted. Composed of: 1- mucus neck cells(predominant) 2- EE cells. 3-stem cells. 4-parietal (few) <u>5-NO peptic cells</u> .				Auerbach's (myenteric) plexus					

	Parietal (oxyntic) cells	Peptic (chief) cells	Serous cells	Mucous cells	Pancreatic acinar cells	
Shape:	Pyramidal or polyglonal	Columnar	Pyramidal	Pyramidal or cuboidal	Pyramidal	
nucleus	Central and round	Basal and round	Round and basal	Flattened and basal	basal	
cytoplasm	Deeply acidophilic, rich in SER and mitochondria	Basophilic with apical secretory granules	Deeply basophilic (due to RER) with apical secretory granules	Pale basophilic and vacuolated (foamy)	-Basal part is basophilic (RER). And -Apical part is acidophilic (due to secretory granules)	
function	Secrets HCL and gastric intrinsic factor (helps in vit B12 absorption)	Secretes <b>pepsinogen</b>	Secretes salivary amylase	Secrets <b>mucus</b>	Secret digestive pancreatic enzymes	

**Done by:** Raghda Alqassim. Good luck!