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COURSE: MLS 408

ASSIGNMENT

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

ANSWERS

LAYERS	SUB-LAYERS	SECTIONS OF THE GASTRO-INTESTINAL TRACT							
		ORAL CAVITY	ESOPHAGUS	STOMACH	SMALL INTESTINE			LARGE INTESTINE	RECTUM AND ANAL CANAL
					DUODENUM	JEJUNUM	ILEUM		
SEROSA/ ADVENTITIA			Adventitia.	Serosa.	Serosa.	Serosa which consists of simple squamous epithelium and connective tissue (lamina propria serosae).	Serosa.	Serosa.	Adventitia.
MUSCULARIS PROPRIA	FEATURES		Proximal 1/3 rd - skeletal muscles. Distal 2/3 rd - smooth muscles.					2 layers of smooth muscle.	Skeletal muscles

	OUTER LONGITUDINAL	Present	Present	Present	Present	Present	Present	Present	Present
	INNER CIRCULAR	Present	Present	Present	Present	Present	Present	Present	Present
	OBLIQUE			Present					
SUBMUCOSA			Connective tissue. Clusters of mucus producing glands. Blood vessels. Nerves.	Gaseous diffusion. Blood vessels terminate.	Contains blood vessels, glands (Brunner's glands), nerve endings. Thick layer.	Doesn't contain glands.	Peyer's patches. Contains blood vessels, lymph nodes and the Meissner's plexus.	Connective tissue, blood vessels and autonomic nerves.	
MUCOSA	MUSCULARIS MUCOSA								
	LAMINA PROPRIA		Loose connective tissue.	Gastric glands; parietal cells, oxyntic cells, chief cells, mucus secreting cells, endocrine cells.				Enterocytes and goblet cells.	
	EPITHELIUM	Stratified squamous non-keratinized	Stratified squamous non-keratinized	Simple columnar. Form invaginations called	Simple columnar	Simple columnar	Simple columnar	Simple columnar.	Stratified squamous.

				gastric pits.					
	VILLI			No villi. Layers are thrown into folds. (Rugae)	Intestinal villi	Longer villi. Villi with microvilli.	Scanty villi.		