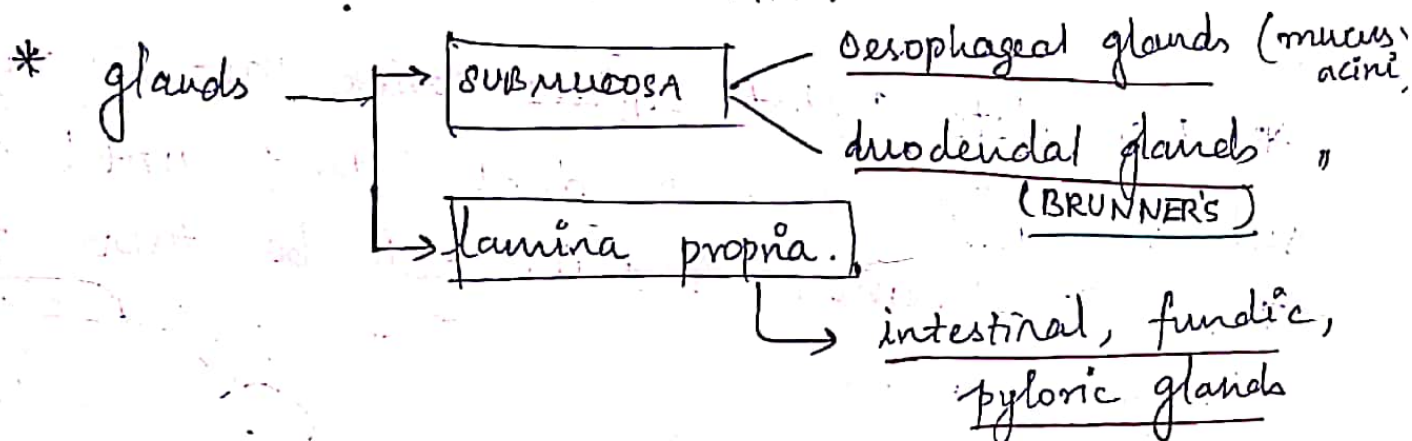


1) Oesophagus:

- * st. sq. epi.
- * Lamina propria.
- * Muscularis mucosa
- * submucosal glands.
(mucosa acini).
- * Muscularis externa
 { upper 1/3rd ⇒ striated
 { middle " ⇒ striated + smooth
 { lower " ⇒ smooth

Note:

* st. sq. epi ⇒ found only in esophagus and perianal skin in the entire GIT.



MALT, GALT

found in lamina propria

Characteristics:

i) Parietal cells: bright pink

- * Large, eosinophilic cells with central nuclei.

ii) Chief cells / peptic / zymogen cells:

- * Basophilic cells present in clusters.

3) Pylorus of Stomach:

↳ Deepest gastric pit.

* pyloric glands in lamina propria $\Rightarrow$ secrete mucous & Hormone "gastrin"

Note:

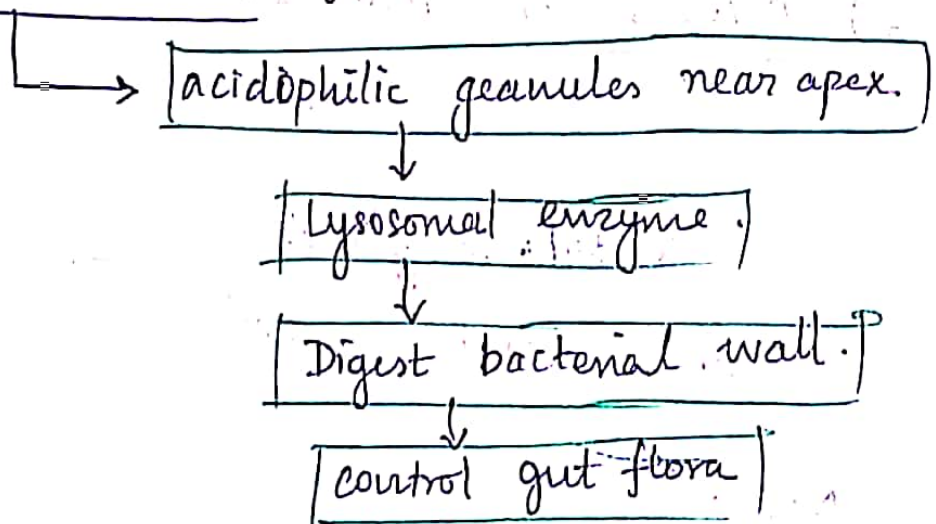
Gastric pit & } $\rightarrow$ both are lined by simple columnar but
pyloric glands } Nuclei of cells of pyloric glands are similar to those of mucous acini. i.e) flat & basal nu.

4) Duodenum:

- * Broad & closely packed villi
- * Columnar epith. with striated
- * Brunner's gl. in submucosa (mucous acini)

5) Jejunum:

- * Tongue shaped villi of diff heights.
- * Column-epi with more goblets.
- * Paneth - cells. (pyramidal)



* GALT (Basophilic - violet) $\Rightarrow$ lamina propria

- * Column. epi with ↑↑ goblets.
- * few thin finger shaped villi
- * Upper level of villi is variable

PEYER'S PATCHES:

↳ GALT present in lamina propria is.
v. well developed & even distorts the muscularis
mucosa below & extends upto the submucosa.

7) Large intestine

- * Absorptive ~~goblet~~ columnar cells. (No villi).
- * Numerous (excess) goblets.

* Outer longit. m/s coat of Muscularis Externa
is arranged in the form of "TAENIA COLI"

8) Appendix:

- * columnar epith. with M-cells.

- * GALT → lamina propria

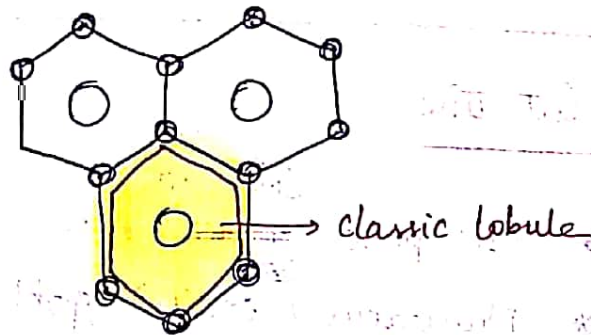
↓
interrupts the muscularis mucosa.

* Radially arranged Hepatocytes
with spaces in b/n called sinusoids.

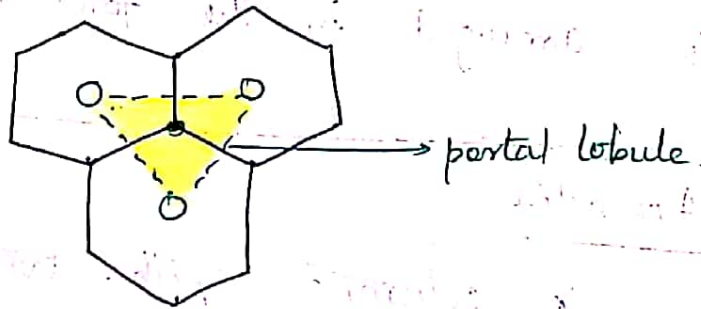
* portal triad → Hep. a.
→ portal v.
→ Bile duct

* sinusoids $\xrightarrow[\text{into}]{\text{drain}}$ central v.

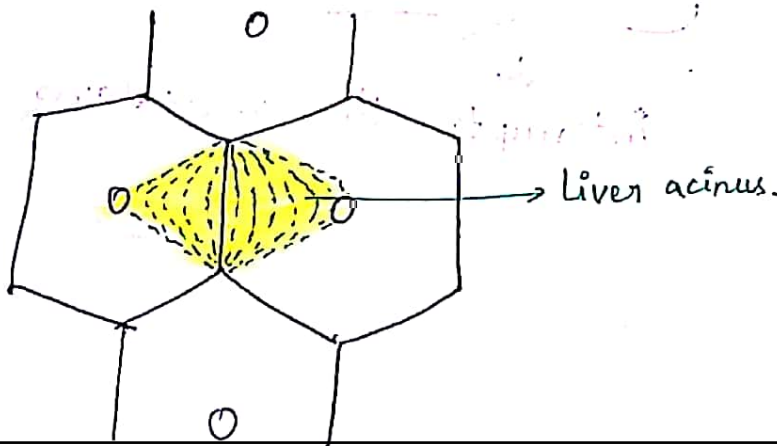
i) classical lobule: ⇒ central v. at the center

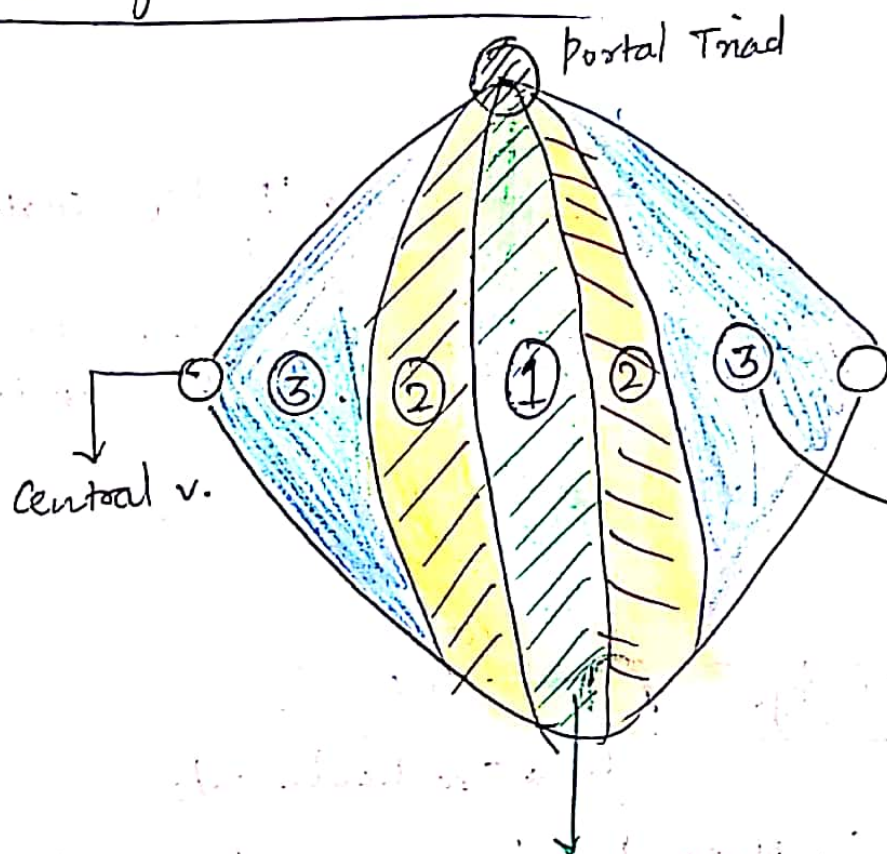


ii) Portal lobule: ⇒ portal triad at the center.



iii) Liver Acinus: (FUNCTIONAL UNIT).





1st to get affected
by "Toxic" changes.
(bcuz its the 1st one to
receive O_2 blood & blood

1st to get
affected by
"Hypoxic" changes.
(bcuz its
near to
central v.
& receives
 O_2 blood at
last)

if there's any toxin its
(CCl_4)
the 1st one to get affected)

Zone 1 → easily aff. by toxins

Zone 3 → " " by Hypoxia.