

# Objective of today's class

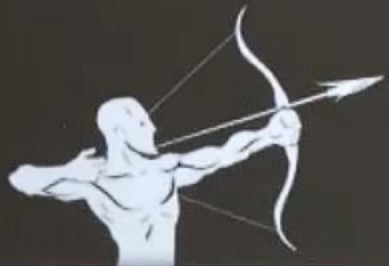


## EPITHELIAL TISSUE

Origin → ECTODERMAL, MESODERMAL, ENDODERMAL

EPITHELIAL  
↳ upon .      ↳ to rest .

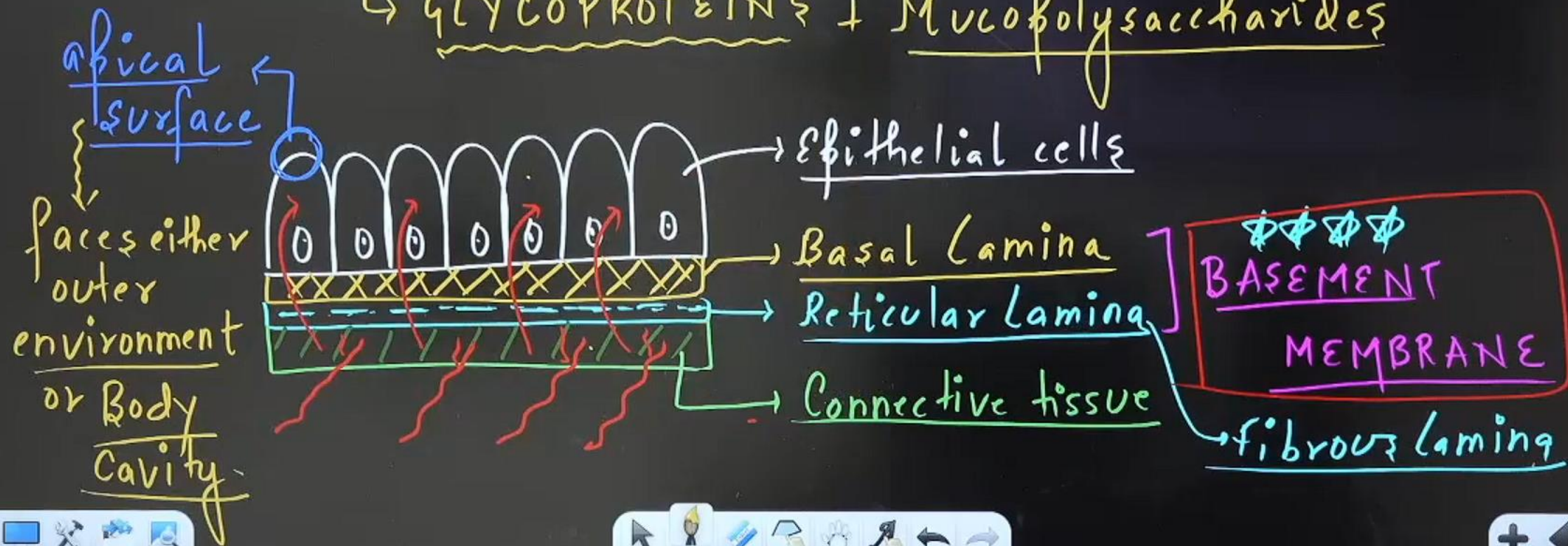
• No Blood supply  
↳ AVASCULAR  
Absence      Blood vessel



- Nervous supply → Yes

NCERT • Cells of epithelium is compactly packed with little intercellular matrix

↳ GLYCOPROTEINS + Mucopolysaccharides





## Basement Membrane:

- ACELLULAR, It consists of Mucopolysaccharides & glycoproteins, also FIBRES
- It is a supporting structure with the help of which Nutrients, oxygen etc is supplied from Connective tissue towards Epithelium.

# Objective of today's class



## EPITHELIAL TISSUE

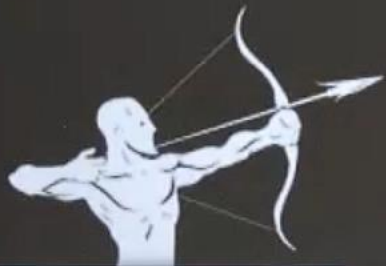
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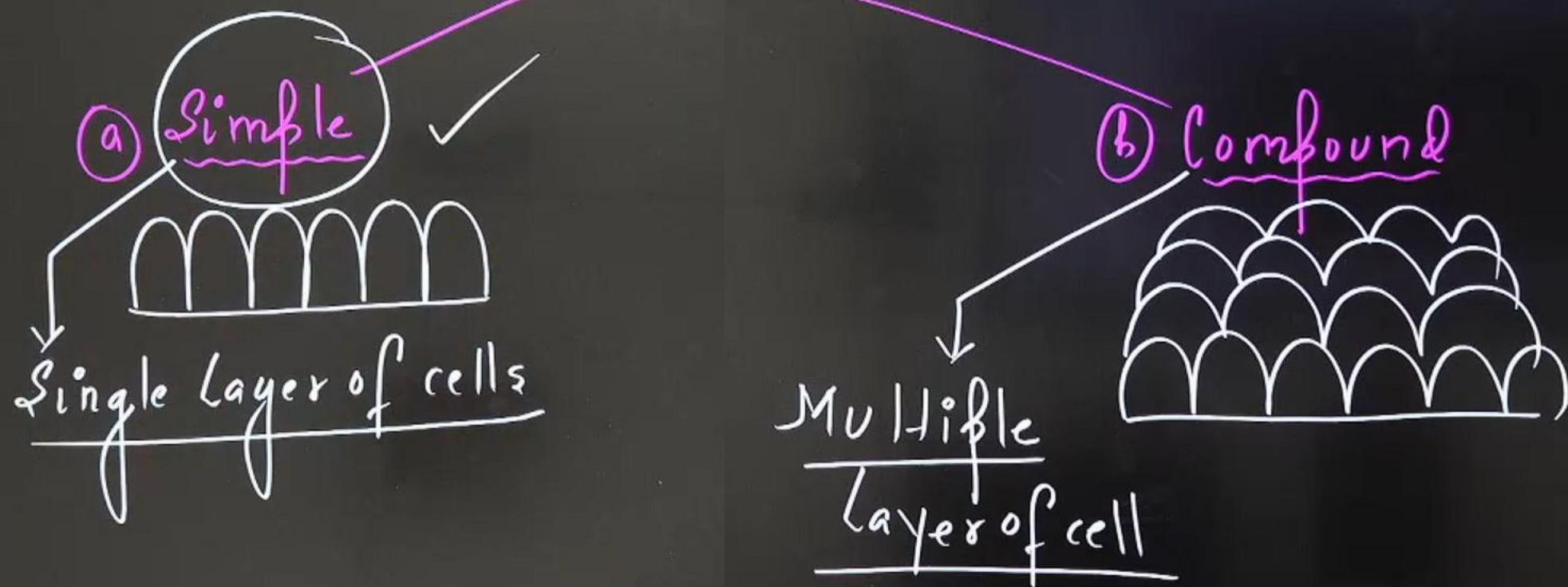
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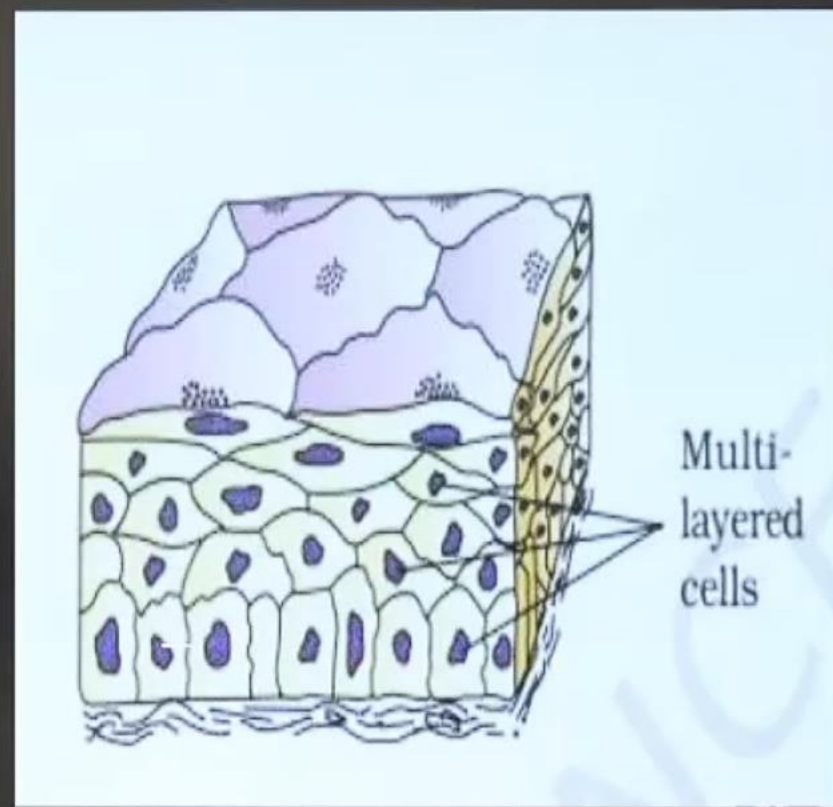
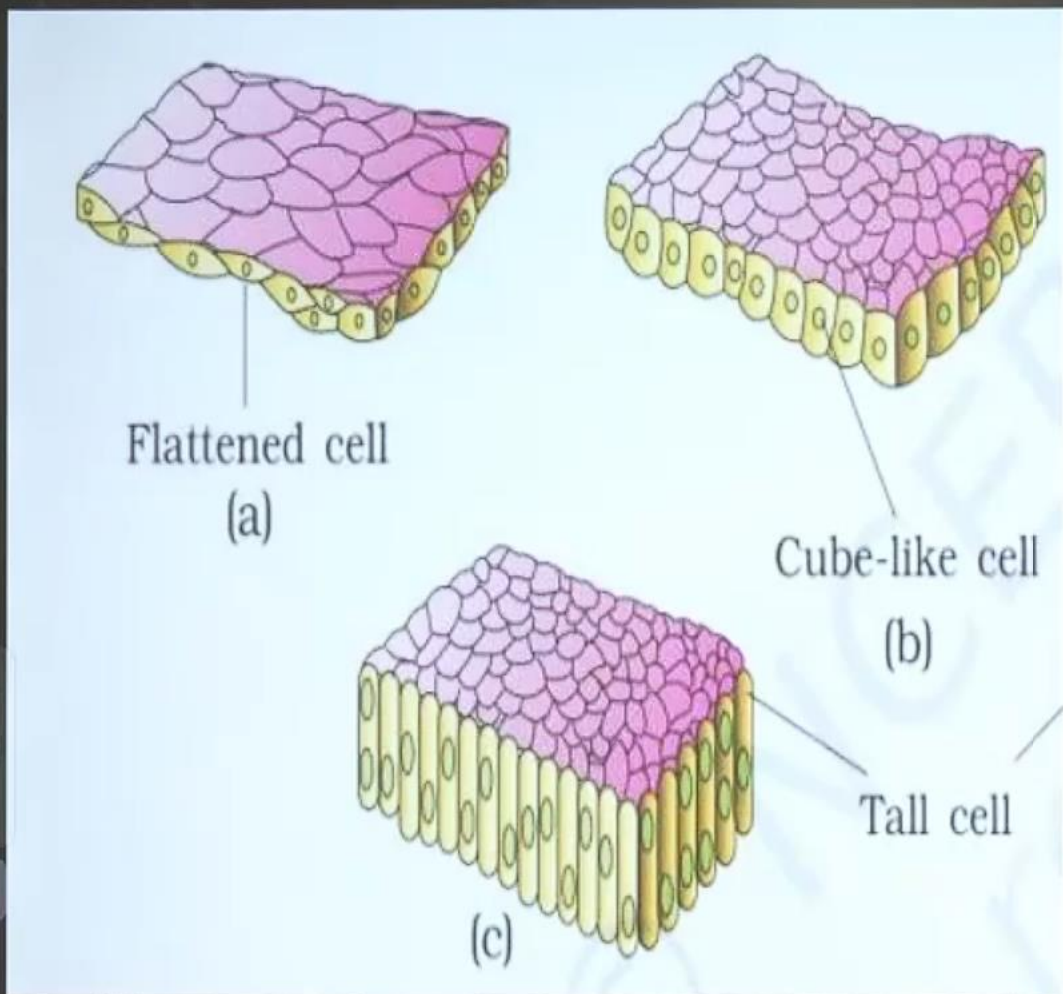
• Highest  
REGENERATION



# EPITHELIUM







Simple

Complex

## SIMPLE EPITHELIUM:

### ① Simple squamous Epithelium

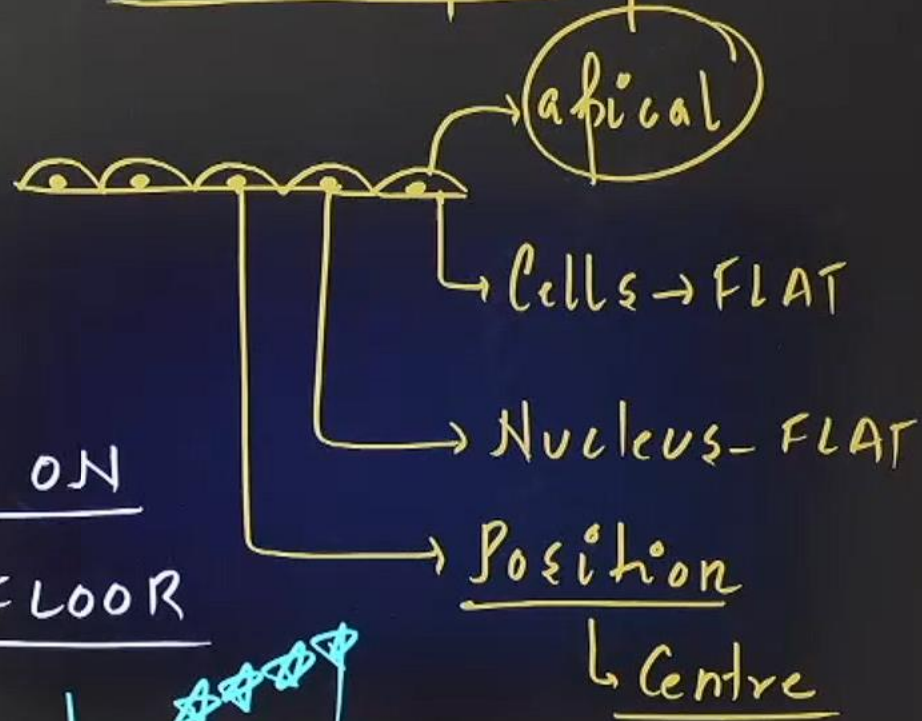
- Pavement Epithelium ✓

↳ it appears like TILES ON THE FLOOR

- Cells are with irregular boundaries.

Function → filtration & Diffusion

has No modification

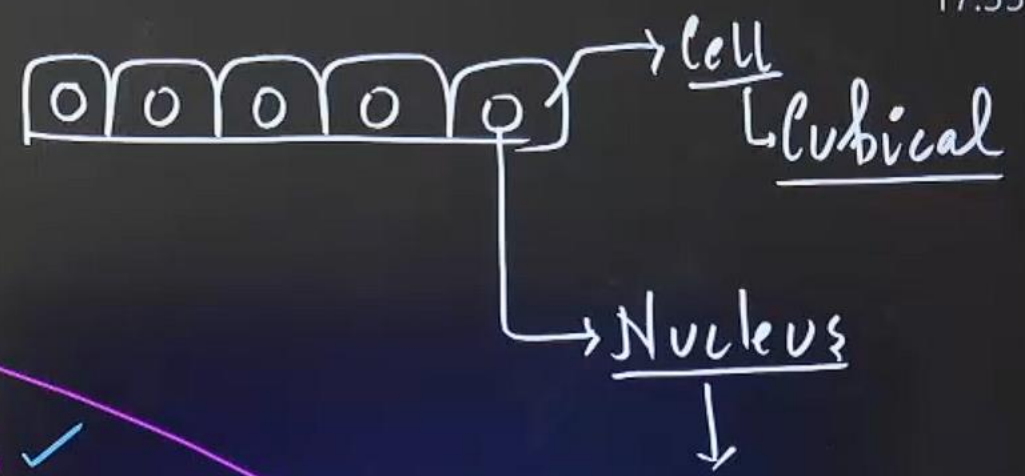


eg: ALVEOLI,  
Blood Capillary (Endothelium)  
Glomerulus  
Bowman's capsule

Nephron



# (2) Simple CUBOIDAL EPITHELIUM:

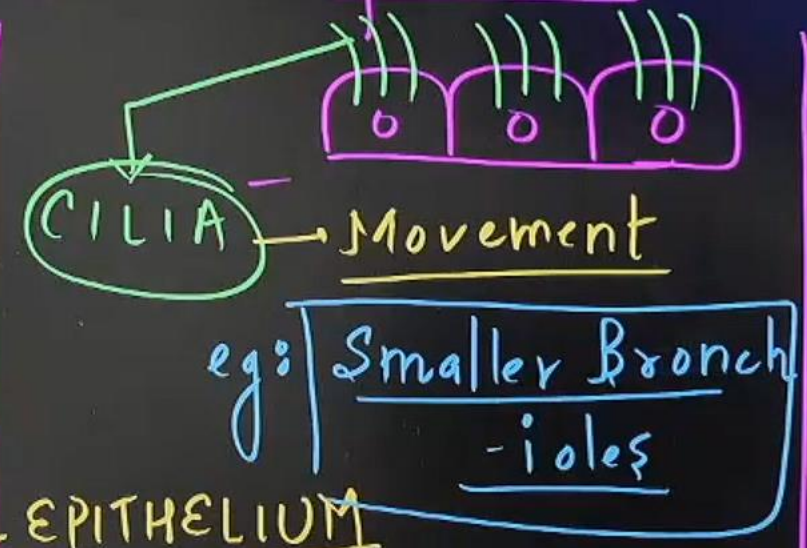


(i) Smooth Surface  

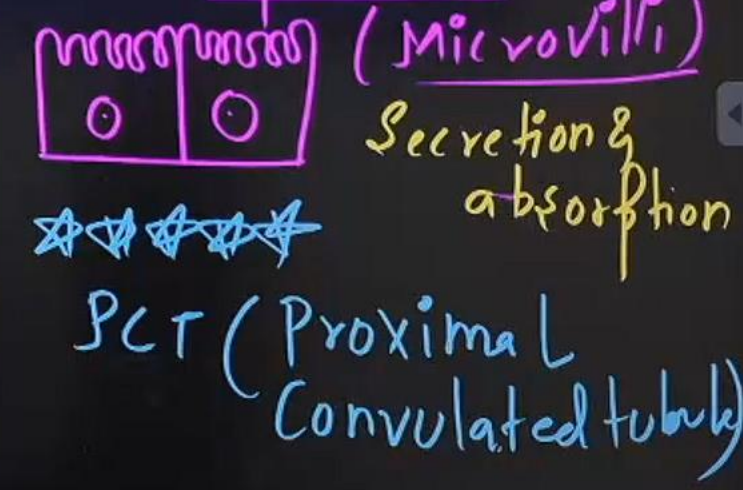
 (Simple Cuboidal)

- eg: Thyroid follicles
- DCT (Distal Convulated Tubule)
  - Testis
  - Ovary
- GERMINAL EPITHELIUM

(ii) Ciliated ✓  
Cuboidal  
Epithelium



(iii) ✓ Round, centre  
Brush-Bordered Cuboidal  
Epithelium





### ③ Simple COLUMNAR

