

(Group C)

Q → Epithelial tissue

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⇒ Epithelial tissue is found on the outer surfaces of organ and blood vessels throughout the body. It is also found at the inner surface of cavities in many internal organs.

Eg = Epidermis → It is the outermost layer of the skin.  
↓ ↓  
outer layer (skin)

⇒ There are Three main shapes of Epithelial Cells are found

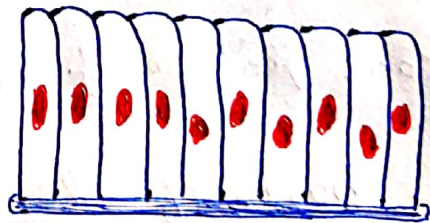
- (i) Squamous
- (ii) Columnar
- (iii) Cuboidal
- (iv) Stratified Squamous

→ All glands are made up of Epithelial Cells -  
functions are = Secretion, Selective absorption, Protection etc -

Figure  
⇒



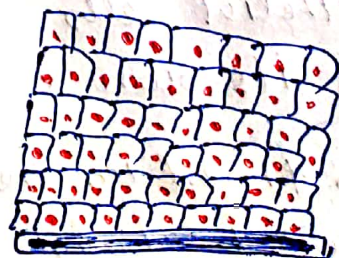
(A) Simple Cuboidal



(B) Simple Columnar



(C) Simple Squamous



(D) Stratified Squamous



⇒ Some primary functions of Epithelium tissue / Epithelial are: -

- ⇒ To protect the tissue that lie beneath from radiation, toxic things, invasion or penetration by pathogen and physical traumas.
- ⇒ Proves to be barriers, preventing passage of certain materials across the Surface and facilitating the passage of others inside.
- ⇒ To Absorb water and digested food in the lining of digestive Canal of organism.
- ⇒ The Surface Epithelium helps in the healing of underlying tissues.
- ⇒ It also provide Sensation. Sensory Epithelium receives Stimuli from the Surroundings.
- ⇒ Ciliated Epithelium of respiratory and genital tracts, Conducts mucus, fluid or gametes in the desired directions.

⇒ Basic features of Epithelial tissue

- The bases of these cells rest on a noncellular basement membranes - which provide strength.
- Epithelial cells do have the Power of Division in its own.
- Also present in the body cavity and Lumen of different body organs.