

4 SKIN AND BODY MEMBRANES



Body membranes, which cover body surfaces, line its cavities, and form protective sheets around organs, fall into two major categories. These are epithelial membranes (skin epidermis, mucosae, and serosae) and the connective tissue synovial membranes.

Topics for review in this chapter include a comparison of structure and function of various membranes, anatomical characteristics of the skin (composed of the connective tissue dermis and the epidermis) and its derivatives, and the manner in which the skin responds to both internal and external stimuli to protect the body.

CLASSIFICATION OF BODY MEMBRANES

1. Complete the following table relating to body membranes. Enter your responses in the areas left blank.

Membrane	Tissue type (epithelial/connective)	Common locations	Functions
Mucous	Epithelial sheet with underlying connective tissue (lamina propria)	In the tracts & structure of; mouth, nose, esophagus, trachea, lungs, stomach, intestines, ureters, urethra & urinary bladder.	Protect the body from harmful external agents.
Serous	An epithelial membrane composed of mesothelium.	Lines internal ventral body cavities and covers their organs	Secrete a lubricating fluid called serous fluid.
Cutaneous	A stratified squamous epithelial membrane.	Resting on top of connective tissue	Protection from external insults and water loss
Synovial	A specialized connective tissue	Lines cavities of synovial joints	Produce lubrication to decrease friction within the joint cavity

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Answers 63

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