Anatomy and Physiology Exam #1 (Ch.1-4) Questions & Answers 2024

Microvilli - ANSWER-Membrane extensions containing microfilaments. Function: absorption of extracellular materials.

Cilia - ANSWER-Long extensions used for movement of material over cell surface.

Proteasomes - ANSWER-Hollow cylinders that breakdown and recycle damaged or abnormal intracellular proteins.

Ribosomes - ANSWER-RNA + proteins. Function: Protein synthesis.

Peroxisomes - ANSWER-Vesicles containing degradative enzymes that catabolize fats and other organic compounds.

Lysosomes - ANSWER-Vesicles containing digestive enzymes that remove damaged organelles or pathogens from inside of the cell.

Centrosome and Centrioles - ANSWER-Essential for movement of chromosomes during cell division: organization of microtubules in cytoskeleton

Cytoskeleton - ANSWER-Proteins organized in fine filaments or slender tubes. Functions: Strength and support; movement of cellular structures and materials. Structural proteins for shape and strength.

Plasma Membrane - ANSWER-Lipid bilayer containing phospholipid steroids, proteins, and carbs. Functions: Isolation; protection; sensitivity; structural support; controls entry and exit of materials.

Golgi Apparatus - ANSWER-Stacks of flattened membranes containing chambers. Functions: Storage, alteration, and packaging of secretory products and lysosomal enzymes.

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