NURS 6501 ADVANCED PATHOPHYSIOLOGY EXAM NEWEST ACTUAL EXAM WITH COMPLETE QUESTIONS AND CORRECT VERIFIED ANSWERS (DETAILED ANSWERS) ALREADY GRADED A+ 100% GUARANTEED TO PASS CONCEPTS!!

What causes the release of lysosomal enzemes? - ✓✓ANSWER✓✓->>>>>>Cellular injury causing cellular self-digestion

What is Cytoplasm? $-\sqrt{\sqrt{ANSWER}\sqrt{\sqrt{->>>>>an}}}$ aqueous solution (cytosol) that fills the space between the nucleus and the plasma membrane.

What is the Golgi complex and what does it do? - ✓✓ANSWER√✓->>>>>>a network of smooth membranes and vesicles located near the nucleus. The Golgi complex is responsible for processing and packaging proteins into secretory vesicles

Importance of proteins in disease $-\sqrt{4}$ ANSWER $\sqrt{4}$ ->>>>>The major workhorses of the cell, if misfolded they can cause diseases

How are cells specialized? - ✓✓ANSWER✓✓->>>>>through the process of differentiation or maturation

What are the eight specialized cellular functions? - ✓✓ANSWER✓✓->>>>>>movement, conductivity, metabolic absorption, secretion, excretion, respiration, reproduction, and communication

What are the three general components of an eukaryotic cell? $-\sqrt{\sqrt{ANSWER}}$ -

What are mitochondria responsible for? - ✓✓ANSWER✓✓->>>>>>. Mitochondria contain the metabolic machinery necessary for cellular energy metabolism (Makes ATP).

What is signal transduction? - ✓✓ANSWER✓✓->>>>>>The transfer of molecular signals from the exterior to the interior of a cell. If not done apoptosis occurs

What is protein regulation and what is it composed of? - ✓✓ANSWER√✓->>>>>protein homeostasis and is defined by the proteostasis network. This network is composed of ribosomes (makers), chaperones (helpers), and protein breakdown or proteolytic systems. Malfunction of these systems is associated with disease.

What makes up the extracellular matrix and what does it do? - ✓✓ANSWER√✓->>>>>>(1) fibrous structural proteins (collagen and elastin), (2) adhesive glycoproteins, and (3) proteoglycans and hyaluronic acid. The matrix helps regulate cell growth, movement, and differentiation.

How do cells communicate? - ✓ ✓ ANSWER ✓ ✓ ->>>>>>(1) they form protein channels (gap junctions); (2) they display receptors that affect intracellular processes or other cells in direct physical contact; and (3) they use receptor proteins inside the target cell.

How is intercellular signaling done? - ✓✓ANSWER✓✓->>>>>>>>>>>>contactdependent, paracrine, hormonal, neurohormonal, and neurotransmitter.

What is ATP? $-\sqrt{\sqrt{ANSWER}\sqrt{\sqrt{->>>>>Adenosine Triphosphate - ENERGY - is}}$ required for active transport.

What is anabolism? - ✓ ✓ ANSWER ✓ ✓ ->>>>>>>>>>>energy-using process of metabolism

What is passive transport? - ✓ ✓ ANSWER ✓ ✓ ->>>>>>The movement of materials across the cell membrane without using cellular energy, water and small electrically uncharged molecules, done through osmosis