Human Physiology Final Examination

Cell physiology

1. Gene expression and its role? Organs involved in gene expression.

_ Gene expression: Process from gene to protein (transcription -> translation -> protein modification)

- + Transcription (take place inside nucleus)
- + Translation (take place cytosol)
- + Protein modification (take place endoplasmic reticulum)

_ Role produce structural protein (constructing new membrane and new protein components of organelles) and functional protein (go to the blood system and functions as hormone or enzymes)

2. Function of Organeles

_ Plasma Membrane, separating Intracellular fluid (ICF) and Extracellular fluid (ECF), control movements of molecules into and out of cell.

ER (Endoplasmic Reticulum):

 Rough ER: protein synthesis (mRNA moves to ribosome on rough ER to start Protein synthesis creating functional protein + structure protein)

 + Smooth ER: lipid synthesis, serves as transport vesicle, store calcium (In some cell, smooth ER secretes lipid-derived steroid hormone.)

_ Centrosome: establish the microtubules for cell division (gamma tubulin + alpha tubulin protein on the surface of centrosome makes the microtubules)

If the microtubules are destroyed, cell division stops and gets stuck at metaphase.

_ Mitochondria -> producing energy in form of ATP for cell, the process of ATP production consisting of 3 phases:

+ Glycolysis (taking place in cytosol) -> breaking down ONE glucose into TWO PYRUVATES
-> produce 2ATP

Human Physiology Final

Terry C. Jones



Human Physiology Final Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Human Physiology Final**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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