Unit 2 - The Cell Review

33 Multiple Choice Questions, 1 long free response, and 1 short free response question

LEVELS OF (QUESTION: 1 = knowledge & comprehension, 2 = synthesis & evaluation, 3 = analyze & apply
Level of	Contont
Question	Content
1	Prokaryotes vs Eukaryotes
1	Cause of size limits for certain types of cells
	Be able to calculate surface area, volume and SA:V. Relationship between these values and the diffusion of materials. Adaptations using these ratios.
6.3	of materials. Adaptations using these ratios.
Level of	
Question	Content
1	Ribosomes
3	Free Ribosomes
6.4	
Level of	
Question	Content
1	The polarity of the Golgi apparatus structure and function
1	Smooth ER
6.5	
Level of	
Question	Content
1	Chloroplasts
7.1	· ·
Level of	
Question	Content
1	Identify all components of the cell membrane
1	Types of molecules that are major structural components of the cell membrane
7.2	
Level of	Contont
Question	Content
1	Types of molecules that pass through a cell membrane most easily
1	aquaporins
7.3	
Level of	Contont
Question	Content
3	Will be given a scenario of two different solutions put into a U-tube and must determine which side is hypertonic and which is hypotonic
3	Analyze what would occur to the solutions in the U-tube after several days
3	Tonicity and water potential - consult your lab investigation
7.4	Tomaty and water potential - consult your lab investigation
Level of	
Question	Content
1	Movement of potassium into an animal cell
7.5	
Level of	
Question	Content
1	Phagocytosis
1	Difference between pinocytosis and receptor-mediated endocytosis
8.1	
Level of	
2000101	Content

Second law of thermodynamics and growth or living organisms

Energy transformation and entropy

Question

8.2	
Level of	
Question	Content
1	Know what each component of the free energy equation represents
3	When a polymer is formed what happens to each component of the free energy equation?
8.3	
Level of	Combont
Question	Content
1	ATP and metabolism
3	ATP and cellular work
8.4	
Level of	Content
Question	Content
1	Identify activation energy on a graph
1	Enzyme-catalyzed reactions
8.5	
Level of	Content
Question	
3	Identify the substrate, enzyme and produce in a feedback inhibition example
3	Identify allosteric inhibitor in a feedback inhibition example
11.1	
Level of	Content
Question	
3	Role of neurotransmitters in a signal pathway
1	Lipid-soluble signaling molecules and target cells
11.2	
Level of	Content
Question	
1	Receptor tyrosine kinases
11.3	
Level of	Content
Question	Transal satis a sath was a
2	Transduction pathways
12.1	
Level of Question	Content
3	Chromatid and Centromere relationship
12.2	Cirioniado ano Centromere relationship
Level of	
Question	Content
3	Microtubule Formation
12.3	This casal Continuon
Level of	
Question	Content

Question

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