

## Essays for Exam #2

1. Discuss the functions of Smooth and Rough ER.
2. Discuss relationships among the endomembrane system.
3. Describe structure and function of mitochondria & chloroplasts.
4. Discuss design, structure and functions of membranes.
5. Compare and contrast passive transport, active transport, and facilitated diffusion (know examples).
6. Describe how energy flows through an open system.
7. Explain ways in which ATP drives cellular work (specific examples).
8. Provide an overview of cellular respiration, include three stages (discuss products and reactants at each stage).
9. Compare and contrast Fermentation and Respiration.

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