

Cell Transport and Cell Division review questions

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What molecules are transported by
Exocytosis

- **Wastes and proteins for
export**

What molecules are transported by phagocytosis?

- **Large particles of food and bacteria**

What molecules are transported by pinocytosis?

- Large quantities of liquids with ions and small particles

What are the 3 parts of a cell life cycle?

- Interphase
- Mitosis
- Cytokinesis

What is the purpose of mitosis?

- Growth
- Create 2 identical daughter cells

What is the 1st phase of mitosis?

- Prophase

What is the longest phase of mitosis?

- Anaphase

What phase of mitosis do chromatids line up along the equator?

- metaphase

When does the nuclear envelope disappear and the chromatin coil up to form chromosomes?

- **prophase**

When does the DNA replicate, or make a copy of itself?

- interphase

What is the longest part of the cell cycle?

- interphase

How many daughter cells are generated by each cell in mitosis?

• 2

What would happen if the centrioles did not form spindle fibers?

- The chromatids would not align and separate into the 2 daughter cells

What would happen if cytokinesis did not take place?

- The 2 daughter cells would stay together.

What are the 4 types of passive transport you looked at today?

- Simple diffusion
- Carrier mediated fac. Diff.
- Channel mediated Fac. Diff.
- Osmosis

What molecules are transported by simple diffusion?

- Small lipid soluble molecules; CO₂; O₂; chloride ions; vitamins

What molecules are transported by carrier-mediated facilitated diffusion?

- Lipid insoluble solutes;
- Binding to substrate changes shape to transport across

What molecules are transported by channel-mediated facilitated diffusion?

- Small lipid insoluble solutes;
- Mostly ions selected by size and charge

What molecules are transported by Osmosis?

- Water molecules;
- Through a specific channel protein-aquaporin or through the lipid bilayer

Facilitated diffusion requires energy. T or F

- **False**

The lipid bilayer consists of hydrophilic heads and hydrophobic tails. T or F

- True