

Cell Transport Quiz PDF

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Which of the following is a type of passive transport?

- Endocytosis
- Diffusion
- Exocytosis
- Active transport

Explain how the sodium-potassium pump functions in active transport.

Describe the process of osmosis and its importance to cell survival.

How does temperature affect the rate of diffusion in cells?

What is the role of ATP in active transport, and why is it necessary?

What roles do membrane proteins play in cell transport? (Select all that apply)

- Structural support
- Active transport
- DNA replication
- Facilitating diffusion

Which factors affect the rate of diffusion? (Select all that apply)

- Temperature
- Surface area
- ATP availability
- Concentration gradient

Which processes are involved in endocytosis? (Select all that apply)

- Phagocytosis
- Exocytosis
- Receptor-mediated endocytosis
- Pinocytosis

Which component of the cell membrane is primarily responsible for its selective permeability?

- Carbohydrates
- Cholesterol
- Nucleic acids
- Phospholipid bilayer

Which of the following are types of passive transport? (Select all that apply)

- Diffusion
- Active transport
- Facilitated diffusion
- Osmosis

What is the term for the engulfment of large particles by a cell?

- Pinocytosis
- Exocytosis
- Receptor-mediated endocytosis
- Phagocytosis

Discuss the differences between facilitated diffusion and active transport.

Explain how receptor-mediated endocytosis differs from other forms of endocytosis.

Which of the following increases the rate of diffusion?

- Decreased temperature
- Increased concentration gradient
- Decreased surface area
- Increased molecular size

What is the primary energy source used in active transport?

- Glucose
- NADH
- Oxygen
- ATP

Which process involves the movement of water across a selectively permeable membrane?

- Facilitated diffusion
- Phagocytosis
- Exocytosis
- Osmosis

Which of the following are characteristics of the phospholipid bilayer? (Select all that apply)

- Hydrophilic heads
- Rigid structure
- Selectively permeable
- Hydrophobic tails

What type of protein assists in facilitated diffusion?

- Enzymatic proteins
- Transport proteins
- Receptor proteins
- Structural proteins

Which of the following processes requires energy input from the cell?

- Simple diffusion
- Active transport
- Facilitated diffusion
- Osmosis

Which of the following processes involve vesicles? (Select all that apply)

- Exocytosis
- Facilitated diffusion
- Simple diffusion
- Endocytosis