

Membrane Transport Quiz

1. Which of the following is an example of extracellular fluid?
 - a. Cytosol
 - b. Plasma
 - c. Interstitial Fluid
 - d. Both b and c
2. Which of the following correctly describes passive transport?
 - a. the cell uses ATP in passive transport
 - b. most pumps are examples of passive transport
 - c. diffusion is an example of passive transport
 - d. exocytosis is an example of passive transport
3. Simple diffusion occurs _____.
 - a. with transporters in the cell membrane
 - b. directly across the cell membrane
 - c. through exocytosis
 - d. through endocytosis
4. Which of the following is an example of active transport?
 - a. Filtration
 - b. Osmosis
 - c. Endocytosis
 - d. Exocytosis
 - e. Both c and d
5. Which type of active transport uses ATP directly?
 - a. Primary Active Transport
 - b. Secondary Active Transport
 - c. Both a and b
6. Which of the following is an example of receptor mediated endocytosis?
 - a. Phagocytosis
 - b. Primary Active Transport
 - c. Exocytosis
 - d. ALL are

7. A transporter that moves one type of particle in one direction is _____.
- Uniporter
 - Symporter
 - Antiporter
8. A transporter that moves two different particles in two different directions is _____.
- Endocytosis
 - Exocytosis
 - Uniporter
 - Symporter
 - Antiporter
9. Which of the following is an example of a primary active transporter?
- $\text{Na}^+/\text{Ca}^{2+}$ transporter on cardiac contractile cells
 - Na^+ channels on neurons
 - Na^+/K^+ ATPase on all cells
 - K^+ Leak Channels on neurons
10. Which of the following can move into the cell directly across the membrane by simple diffusion?
- Na^+
 - O_2
 - Glucose
 - K^+
11. Which of the following is an example of an antiporter?
- $\text{Na}^+/\text{Ca}^{2+}$ transporter on cardiac contractile cells
 - Na^+ channels on neurons
 - Na^+/K^+ ATPase on all cells
 - K^+ Leak Channels on neurons
12. Which of the following is an example of a uniporter?
- GLUT transporter on muscle and fat cells
 - Na^+/K^+ ATPase on all cells
 - $\text{Na}^+/\text{Ca}^{2+}$ transporter on cardiac contractile cells
 - Both b and c
13. Which of the following is the movement of extracellular fluid into a cell by infolding of the plasma membrane?
- receptor mediated exocytosis
 - pinocytosis
 - phagocytosis
 - ALL are

MC Answers

1. d
2. c
3. b
4. e
5. a
6. a
7. a
8. e
9. c
10. b
11. c
12. a
13. b