

Study Guide Chapter 7-3, 7-4

Vocabulary

Passive Transport

Concentration Gradient

Equilibrium

Diffusion

Osmosis

Hypertonic Solution

Hypotonic Solution

Isotonic Solution

Ion Channel

Carrier Protein

Facilitated Diffusion

Active Transport

Sodium-Potassium Pump

Endocytosis

Exocytosis

Receptor Protein

Second Messenger

Possible Short Answer Questions

How does dissolved solute concentration affect osmosis?

What are the 3 steps of facilitated diffusion?

Describe the 4 steps to the sodium-potassium pump? Why is the sodium-potassium pump important regulating cell function? (essay)

What are the 3 outcomes of a signal molecule binding to a receptor protein?

What are two ways some cells deal with the problem of a hypotonic solution?

What causes the random motion of atoms?

What are two ways active and passive transport are different?

How do multicellular organisms maintain homeostasis? (7-4)

What are the levels of organization for multicellular organisms when it comes to cell specialization? (7-4)

How do cells communicate with each other? (7-4)