

Questions (think of questions that might be on the exam)

## II. Cell in its Environment

### A. Cell Membrane

1. Selectively permeable-only some \_\_\_\_\_ can \_\_\_\_\_

\* \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_ must pass through

2. Diffusion

\* Substances move in and \_\_\_\_\_ of the \_\_\_\_\_ in \_\_\_\_\_

(1) Diffusion- \_\_\_\_\_

(2) \_\_\_\_\_

(3) \_\_\_\_\_

\* Diffusion-small \_\_\_\_\_ move across a \_\_\_\_\_ from a \_\_\_\_\_ concentration to a \_\_\_\_\_ concentration

\* Molecules are \_\_\_\_\_

### B. Osmosis

\* \_\_\_\_\_ = \_\_\_\_\_ of \_\_\_\_\_ through a selectively \_\_\_\_\_

\* Move from \_\_\_\_\_ concentration to \_\_\_\_\_ concentration

\* Because cells can not \_\_\_\_\_ without \_\_\_\_\_ they depend on \_\_\_\_\_

1. Effects of Osmosis

\* \_\_\_\_\_ and \_\_\_\_\_ of the cell

Q. By what process do small molecules move into a cell?

Q. How is osmosis related to diffusion?

Q. What prevents a cell from growing very large?

C. Active Transport

\* Passive Transport- \_\_\_\_\_ through a cell membrane \_\_\_\_\_ using \_\_\_\_\_

(1) EX: \_\_\_\_\_ and \_\_\_\_\_

\* Active Transport- \_\_\_\_\_ of materials through a cell membrane \_\_\_\_\_

1. Transport Proteins

\* Transport \_\_\_\_\_ in the membrane “\_\_\_\_\_” molecules and \_\_\_\_\_ them \_\_\_\_\_ the cell membrane

2. Transport by \_\_\_\_\_

\* Cell membrane \_\_\_\_\_ and \_\_\_\_\_ a particle and forms a \_\_\_\_\_ within the cell

3. Why cells are small

\* As a cell size increase it would take much longer for \_\_\_\_\_ to reach the \_\_\_\_\_ of the \_\_\_\_\_ from the cell membrane

\* If it grew \_\_\_\_\_ it could not \_\_\_\_\_ well enough to \_\_\_\_\_

Summary (5 sentences)