

REVIEW SHEET: Organelles, Plasma Membrane and Cellular Transport Test

Test date: _____

Format: Short answer, multiple choice and diagrams

Materials Required: Pencil, eraser and pen

Note: If you are absent for the test, a parent/guardian must phone me at 416-393-8122 ext. 20095 on the morning of the test to explain the absence.

TOPICS ON TEST:

A good set of notes (with homework completed) and handouts is your best studying tool. The use of the textbook is also encouraged.

Cellular Structures

- Know the names and descriptions of cellular structures (you are responsible for the structures discussed in class)
- Be able identify cellular organelles from diagrams of animal and plant cells
- Understand the fluid mosaic model and the components that make up the cell membrane

Cellular Transport

- Types of passive transport: diffusion, osmosis, facilitated diffusion
- Know what happens to animal and plant cells in different environments (i.e. hypertonic, isotonic, hypotonic solutions).
- Know the terms: *plasmolysis* and *turgor pressure* as it relates to plant cells.
- Types of active transport: pumps (example: Na⁺/K⁺ pumps), bulk transport using vesicles: endocytosis (pinocytosis, phagocytosis and receptor-mediated) and exocytosis.
- Compare and contrast between passive and active transport

Review Questions

Textbook references: pp. 36-78

Pg. 62 #1, 2, 5, 7, 8, 9, 10, 11, 12, 13, 14, 15

Pg. 84 #1-10, 12, 14, 16, 17, 18, 19, 20, 22, 23

Answers to be posted on the class website (www.sciencemania.net) in the SBI4U resources section.