Chapter 2 Review

If you think about it, chapter 2 breaks down into three major areas: 1. cells and organelles, 2. Cell division, 3. cancer. I have kept these areas separate in the review to help you organize your knowledge. Please refer both to your notes and your textbook!

True/False (10 questions) Multiple Choice (15 questions)

Cells and Organelles

-What is cytoplasm made up of?

-How do chloroplasts make energy?

-What is diffusion?

-What are the major differences between plant and animal cells?

-What process occurs in mitochondria?

-What basic things to cells need

-Why do plants have a cell wall?

-What are the differences between Eukaryotes and Prokaryotes

-What is cell theory?

-What does semi-permeable refer to?

-What do maple tree cells have that yours don't?

Cell Division

-What is meant by daughter cells?

-How many stages of cell cycle are there?

-Why do cells undergo mitosis?

-Figure 6 on page 43, be able to identify each phase of mitosis

-What is happening during interphase?

-When does the nuclear membrane break down?

-How do you and I grow?

Cancer

-How is cancer diagnosed?

-What is cancer?

-What are the ways we treat cancer

-What is the difference between benign and malignant?

-What is metastasis?

Matching (15 marks)

-be able to match organelles with their function

-be able to match stage of mitosis with what is occuring

-figure 2 on page 30

Short Answer (30 marks)

Cells and Organelles

-major differences between plant and animal cells

-diffusion versus osmosis what how/why cells use diffusion. How does diffusion work?

-pick a couple specialized cells of your choice and describe them

Cell Division

-How do we heal and repair ourselves?

-What does mitosis accomplish within cells?

-Know how many stages of cell cycle there are and mitosis. Be able to name them.

Cancer

-Remember our discussion and the textbook section on ways we can reduce our risk of cancer

-How can radiation help us?

-What is a carcinogen? Can you think of an example?

-What are some of the techniques for diagnosing cancer?

The test ends with an OSSLT style article that you will read and answer short answer questions for.

Good Luck! - Mr. Dvorsky