**BIOLOGY 2022-23 November 1, 2022**

**Today’s Agenda (Day 47)**

1. HOUSEKEEPING ITEMS

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1. Homework Check:

🡪 Mini-lab: Enzymatic Browning

1. Class Activity:

🡪 **TEST: Ch 6 🡪 Nov. 1**

 **\*Go to** [**www.socrative.com**](http://www.socrative.com) **🡪 enter room “MSBBIOLOGY” 🡪 enter ID #**

🡪 WEDNESDAY: DAY 2: Chapter 7 PPT Review

1. **Section 7.3 – Structures and Organelles**
2. Section 7.4 – Cellular Transport

HOMEWORK:

* READ: Chapter 7 – Cell Structure and Function
* COMPLETE: Chapter 7 Reading Guide Questions
* **STUDY**: Chapter 6 Test, Chapter 7 Vocabulary and Test

**CHAPTER 7 VOCABULARY**

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| --- | --- | --- | --- | --- | --- |
| Active transport | Cell | Cell theory | Cell wall | Centriole | Chloroplast |
| Cilium | Cytoplasm | Cytoskeleton | Diffusion | Dynamic equilibrium | Endocytosis |
| Endoplasmic reticulum | Eukaryotic cell | Exocytosis | Facilitated diffusion | Flagellum | Fluid mosaic model |
| Golgi apparatus | Hypertonic solution | Hypotonic solution | Isotonic solution | Lysosome  | Mitochondrion |
| Nucleolus | Nucleus | Organelle | Osmosis | Phospholipid bilayer | Plasma membrane |
| Prokaryotic cell | Ribosome | Selective permeability | Transport protein  | vacuole |  |

REMINDERS:

* **~~TEST: Ch 6 🡪 Nov. 1 !! CHANGE OF DATE!!~~**
* **QUIZ: Ch 7 Vocabulary🡪 Nov. 3**
* Chapter 7 Reading Guide – Nov. 3
* **TEST: Ch 7 🡪 Nov. 8**

**BIOLOGY 2022-23 READING GUIDE**

**Chapter 7 Cellular Structure & Function**

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| Review pages 182 – 207 in the Glencoe Science *Biology*Textbookand answer the following questions.1. List the three principles of the **Cell Theory**.
2. Describe one strength and one weakness of both a compound light microscope and an electron microscope.
3. What is the essential function of the **plasma membrane**?
4. Compare and contrast **eukaryotic** cells and **prokaryotic** cells.
5. Describe the **endosymbiont theory**.
6. When describing the plasma membrane, selectively permeable and phospholipid bilayer are almost always mentioned.  What do these terms mean?
7. What are **transport proteins** used for in the plasma membrane?
8. Some scientists consider the role of cytoplasm more vital (important) in prokaryotes rather than eukaryotes.  Explain why.
9. Draw the eukaryotic cell below and label and define all organelles listed on Table (p199).

 Diagram  Description automatically generated1. Would you expect to find more mitochondria in a muscle cell or a skin cell?  Explain your answer.
2. Plant cells have a cell wall (animal cells don’t), what is its function?
3. Describe the process of protein synthesis mentioning all the organelles involved in the process.
4. Define **diffusion**.  Give an example.
5. What is meant by the term **dynamic equilibrium**?
6. How is **facilitated diffusion** different from **simple diffusion**?
7. How does **osmosis** work?
8. Define **isotonic** solution, **hypotonic** solution, and **hypertonic** solution.
9. Describe how a cell behaves in each of the following: isotonic solution, hypotonic solution, and hypertonic solution.
10. Determine which type of solution each red blood cell is in from each of the diagrams below:

A.Chart, diagram  Description automatically generated B. Diagram  Description automatically generated C.Chart, scatter chart  Description automatically generated                                                                                                        1. What is the main difference between **active transport** and **diffusion**?
2. Compare and contrast **exocytosis** and **endocytosis**.
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