

EXAM 2 Biology Mastery Study Guide Fall 2024

Relevant lectures: 8-12

Relevant modules: Module 3 and Module 4

Openstax readings: (See module 2 and module 3 in canvas)

Focus your preparation on the practice exams, clicker questions, and open stax (in that order)

CELLS AND THEIR STRUCTURES:

1. State the size range of most prokaryotic and eukaryotic cells
2. Explain how eukaryotic cells evolved from the process of endosymbiosis
3. Explain Cell Theory
4. Identify from a diagram, and know the function of structures found within a prokaryotic cell (refer to required cell structure list and diagrams) - **on your own outside of lecture**
5. Identify from a diagram, and know the function of structures found within a eukaryotic cell (refer to required cell structure list and diagrams) - **on your own outside of lecture**
6. Distinguish between structures that are found in animal cells, plant cells, and prokaryotic cells (refer to required cell structure list and diagrams) - **on your own outside of lecture**

THE PLASMA MEMBRANE AND CELLULAR TRANSPORT:

1. Explain why phospholipid molecules form a bilayer structure in living systems
2. Identify the five of the major molecular components of a cell membrane, describe their molecular makeup, and give their functions:
 - ☐ *phospholipids*
 - ☐ *cholesterol*
 - ☐ *proteins*
 - ☐ *glycoproteins*
 - ☐ *glycolipids*
3. Define *passive transport*, *diffusion*, *osmosis*, *facilitated diffusion*, *active transport*
4. Determine when and why each type of membrane transport would be used
5. Predict how a substance would enter or exit a cell based on its molecular structure/composition
6. Define *hypotonic*, *isotonic*, *hypertonic*, *osmosis*
7. Use the terms *hypotonic*, *isotonic*, and *hypertonic* to describe how both plant and animal cells will interact with different environments
8. Use molecular-level diagrams to illustrate the concepts of *hypotonic*, *isotonic*, and *hypertonic*

CELL CYCLE:

1. Explain what the Cell Cycle is.
2. Describe what happens during the various parts of Interphase during the life of a cell (*G1*, *S*, *G2*).

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Chandresh Agrawal, Nandini Books



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