

Exam 2 Study Guide

Chapter 4

1. If a researcher wants to look at an *Artemia salina* specimen under a microscope, which one should they use?
 - a. Transmission Electron Microscope
 - b. Scanning Electron Microscope
 - c. Compound telescope
 - d. Dissecting Light Microscope
2. This Microscope is used to study the locations of the organelles of a cell
 - a. Dissecting Light Microscope
 - b. Fluorescence Light Microscope
 - c. Transmission Electron Microscope
 - d. Scanning Electron Microscope
3. How have jellyfish contributed to biology
 - a. They have no brains which made them an interesting candidate for studying and understanding how they live and operate
 - b. From experimentation it was found that some jellyfish glow because of a protein within them that turns green under UV light, labeled green fluorescent protein
 - c. They have been revolutionary in the discovery of treatments for many diseases from their reflexivity and membranous
 - d. From experimentation it was found that some jellyfish can still have bodily systems after they have passed, becoming a key component of research when it came to cells and cell death
4. What are three similarities that prokaryotic and eukaryotic cells have in common?
 - a. All prokaryotes and eukaryotes have cell walls, plasma membrane, and membrane bound organelles
 - b. Cell walls, chloroplasts, ribosomes
 - c. Plasma membrane, cytoplasm, nucleolus
 - d. Plasma membrane, cytosol, chromosomes
5. Determine whether these organisms are prokaryotic or eukaryotic

Fungi	2
Plants	2
Archaea	1
Protists	2
Animals	2
Bacteria	1

Key

1. Prokaryote

Bio Study Guide Answers Mrs Foglia

Richard Bailey



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