



PRE-LAB QUESTIONS

1. What are the functional requirements of life?

The functional requirements of life are as follows:

- Movement
- Responsiveness
- Respiration/Metabolism
- Reproduction
- Excretion

2. Using Table 1, identify the major similarities and differences between prokaryotic and eukaryotic cells.

a. Differences:

- Prokaryotes lack a membrane-bound nucleus and lack membrane-bound organelles.
- Eukaryotes have a defined nucleus and membrane-bound organelles.
- Prokaryotes are more basic, as eukaryotes are more complex.
- Eukaryotes have more organelles.

b. Similarities:

- Both have similar structures.
- DNA/genetic material
- Cytoplasm
- Cell membrane
- Ribosomes

3. Where is DNA housed in a prokaryotic cell? Where is it housed in a eukaryotic cell?

- In a prokaryotic cell, DNA is found freely existing in the cytoplasm in the nucleoid region (because there is no nucleus).
- In a eukaryotic cell, most DNA is located in the nucleus.

4. Compare and contrast the role of secretory vesicles, the lysosome, and the peroxisome.

The roles of secretory vesicles, the lysosome, and the peroxisome have similarities and differences:

- They are all membrane-bound organelles, smaller in size.
- Their main function and contents differ.
- Lysosomes are critical for intracellular digestion; contents are released into the vacuole to kill and digest bacteria.
- Peroxisomes' main function is protecting the cell from the hydrogen peroxide it creates by breaking it down into water and oxygen.
- Secretory vesicles package cell secretions in the Golgi Body, and are then transported to the cell surface for release.

5. Identify three structures that provide support and protection in a eukaryotic cell.

a. The three structures that provide support and protection in the eukaryotic cell are:

- i. Cell membrane
- ii. Cell wall (outside of the cell membrane)
- iii. Microtubules (found in cytoskeleton)



Escience Lab Osmosis Answers

Yi-Tong Ma



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