

BIOL 1310
Mini-exam #1
16 Feb 2007

Name _____

Be sure to write complete answers---
If you need more space, use the back..

1) (10 pts) Consider the 5 characteristics of life:

1. Reproduction
2. Adaptation
3. Energy utilization
4. Metabolism
5. Respond to stimuli

Using these characteristics, complete the table below by describing which part of the cell is involved:

| Characteristic | Prokaryotic cells | Eukaryotic cells |
|-----------------------|--------------------------|-------------------------|
| Reproduction | | |
| Metabolism | | |
| Respond to stimuli | | |
| Energy Utilization | | |
| Adaptation | | |

2) (5 pts) Compare and contrast the structures of the Plant cell vs the Animal Cell?

3) (5 pts) Every cell has a membrane. What is it about the chemical structure of the membrane makes it ideal for covering the cell?

4) (5 pts) We discussed the circulatory system in class. In terms of cell function, why is it important that multicellular animal organisms have a system of tubes pumping fluid around their bodies?