

Name _____

Date _____

Period _____

Biology Homework 1-8: Body Systems, Bacteria, Viruses, and Transport

Use your **journal** as a reference tool to answer the questions that follow. If you require additional information, visit www.rlbbio.weebly.com.

1. Bacteria and viruses share all of the following characteristics except –

- a. the ability to cause a disease
- b. the ability to grow and develop
- c. genetic material
- d. the ability to change over time

2. Saltwater fish are able to maintain an internal balance of water through a process called osmoregulation. These fish remove excess salt out of their gills. The cells of the gills have a low concentration of salt and saltwater has a higher concentration of salt. Removal of salt from the cells of the gills involves- (Hint: Draw a mountain analogy.)

- a. diffusion
- b. osmosis
- c. active transport
- d. passive transport

3. Passive transport can also be described as-

- a. simple diffusion of molecules moving from high to low concentration
- b. active transport of molecules moving from low to high concentration
- c. energy diffusion of molecules moving with the use of energy molecules known as ATP
- d. transportation of molecules moving freely with very little energy

4. Vocabulary. Match the following words with their correct definitions.

- | | | |
|-----------------|----|--|
| _____ nervous | a. | system that recognizes and responds to internal and external stimuli |
| _____ endocrine | b. | pathogens that cause infection by injecting their viral DNA into a host cell |
| _____ virus | c. | system that regulates growth and development through the release of hormones throughout the body |
| _____ bacteria | d. | prokaryotic cell that is small, simple, and lacks organelles |

5. Which cell structure is correctly paired with its primary function?

- a. Ribosome – protein synthesis
- b. Mitochondria – movement
- c. Vacuole – cell division
- d. Nucleus – storage of nutrients