

Name _____ Date _____ Period _____ Score _____

Chapter 27 - Prokaryotes

Structural, Functional, and Genetic Adaptations: Fundamentals of Prokaryotic Diversity

1. Explain why it might be said that the diverse skills we find in our long "age of prokaryotes."
 - a. Explain why prokaryotes are said to give us virtually everything that we eat and drink.

2. State the function(s) of each of the following prokaryotic features:
 - a. capsule

 - b. fimbriae

 - c. cell walls

 - d. endospore

 - e. pili

 - f. conjugation

3. Describe how prokaryotes carry out cellular respiration if they have compartmentalized organelles such as mitochondria.

4. Describe three domains of life.

5. Describe the structural, ecological, and functional adaptations of prokaryotes with a cell.