

Bacteriology Exam I
Biology 430
9/28/03

Name: _____

Multiple Choice: Select the most correct answer for each of the following questions.
(2 points each)

1. Bacteria were first seen in detail by _____, in _____.
 - a. Pasteur, 1861
 - b. Leeuwenhoek, 1684
 - c. Hooke, 1664
 - d. Koch, 1876
2. Which of the following structures is never present in a prokaryotic cell?
 - a. cell wall
 - b. magnetosomes
 - c. ribosome
 - d. membrane-bound nucleus
 - e. flagella
3. Which of the following is not characteristic of the cell membrane?
 - a. 8 nm thick
 - b. usually a phospholipid bilayer
 - c. the hydrophilic layer lies on the outside
 - d. a highly selective permeability barrier
 - e. hydrophilic proteins are attached to the hydrophobic regions by van der Waals attractions
4. The rigidity and shape of the bacterial cell is due to the:
 - a. Cell membrane
 - b. Peptidoglycan layer
 - c. The lipopolysaccharide
 - d. The teichoic acid layer
5. A bacterium is flagellated with flagella inserted at many points around the cell surface. What is this type of flagellation called?
 - a. Monotrichous
 - b. Lophotrichous
 - c. Peritrichous
 - d. Amphitrichous
6. Which term refers specifically to biosynthesis?
 - a. Metabolism
 - b. Anabolism
 - c. Catabolism
7. Which of the following substances is not truly a micronutrient (trace element)?

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Huangqi Zhang



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