

Sample questions from old BIO 226N exams 1.

1. An organism which grows in the form of spheres is:
 - a. *Staphylococcus aureus*
 - b. *Streptococcus pneumoniae*
 - c. *Streptococcus fecalis*
 - d. all of the above

2. What particles do you expect to find in an atom nucleus?
 - a. protons
 - b. electrons
 - c. genes
 - d. nucleotides

3. Elements form covalent bonds by:
 - a. accepting electrons
 - b. sharing electrons
 - c. donating electrons
 - d. all of the above

4. Elements which become charged as the result of donating electrons are called:
 - a. solvents
 - b. cations
 - c. protons
 - d. anions

5. The substance found only in cell walls of prokaryotes is:
 - a. peptidoglycan
 - b. chitin
 - c. cellulose
 - d. cement

6. The bacterial cell structure (or component) which is selectively permeable is:
 - a. outer membrane
 - b. cytoplasmic membrane
 - c. cell wall
 - d. spore

7. Amino acids contain:
 - a. nucleic acid base
 - b. esters
 - c. carboxyl group
 - d. all of the above

8. Molecules which are oxidized donate:
 - a. electrons
 - b. hydroxyl ions
 - c. water
 - d. none of the above