**Chapter 1**

**Multiple Choice Practice Test**

1. Algae, Fungi and Protozoa are:

a. Prokaryotes

b. Viruses

c. Eukaryotes

d. Bacteria

2. Which group of microorganisms are considered one of the largest?

a. Bacteria

b. Viruses

c. Archae

d. Protozoa

3. Robert Hooke’s use of the crude microscope was the beginning of:

a. Spontaneous generation

b. Aseptic technique

c. Cell theory

d. Germ theory

4. In the 1800’s, Louis Pasteur used swan necked flasks to **prove** which theory?

a. Cell theory

b. Biogenesis

c. Spontaneous generation

d. None of the above

5. Conversion of sugar to alcohol by microorganisms is termed:

a. Pasteurization

b. Fermentation

c. Glycolysis

d. None of the above

6. Joseph Lister was the first to use of phenol to sterilize surgical instruments, which led to the development of:

a. Antibiotics

b. Antiseptics and Disinfectants

c. Vaccines

d. Aseptic technique

7. Which statement is CORRECT about bacterial species?

a. It is the general name and is capitalized

b. It is the specific name and is capitalized

c. It is the specific name, un-capitalized, and are genetically identical

d. It is the specific name, un-capitalized, and are genetically different

8. Edward Jenner observed that people who were previously sick with the mild disease cowpox did not get sick with smallpox. When he purposefully inoculated a young boy with cow pox the boy only became mildly ill, and recovered and became immune to smallpox. The inoculum he gave the boy is now called:

a. An antibiotic

b. An antiseptic

c. A vaccine

d. A disinfectant

9. The antibiotic penicillin was discovered by Alexander Fleming through what observation:

a. Bacterial growth in swan necked flasks

b. Mold inhibited the growth of on contaminated plates

c. Overgrowth of bacteria on contaminated plates

d. None of the above

10. Paul Ehrlich’s discovery of Salvarsan, an arsenic derivative that could be used to treat syphilis was the beginning of:

a. Vaccination

b. Chemotherapy

c. Selective toxicity

d. Antibiosis