Microbiology Lab #3b Quiz: Identification of Unknown Bacteria (Part II)

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Best way to prepare for this quiz? Read Lab Exercise #3b Instructions, Lab Report #3b Homework, & view Lab 3b PowerPoint Show, all available on the [Identification of Unknown Bacteria Lab Main](http://www.scienceprofonline.com/vmc/vmc-lab/vmc-laboratory-identifying-bacteria.html) Page of the [VMC](http://www.scienceprofonline.com/virtual-micro-main.html). Since this lab is about identifying bacterial unknowns, you may also have to look at previous lab exercises to interpret your observations, and to answer questions on this quiz.

1. Which will you NOT be using to identify your unknown bacterium this week?
   1. API-20E b. Gram stain c. MacConkey’s d. Endospore stain e. Mannitol Salt
2. What is a dichotomous key?
   1. a tool used to identify living things
   2. a type of enzyme that opens molecules
3. the protein portion at the end of fimbriae that help bacteria cause infection
4. a way to determine if a cell is in a hyper- or hypotonic environment
5. a key for opening two chotomii
6. With which microscope objective magnification are you allowed to use coarse focus?
   1. 10x b. 40x c. 100x d. all of these d. none of these
7. The API-20E is used to identify…
   1. Gram-positive bacteria b. Gram-negative bacteria c. Acid-fast bacteria d. viruses
8. Which differential staining procedure includes the application of a mordant?
   1. Gram stain b. acid-fast stain c. endospore stain d. simple stain
9. If your unknown bacteria grows on MacConkey’s agar, what does this reveal about its identity?
   1. unknown is Gram-positive b. unknown is Gram-negative
10. unknown is acid-fast d. unknown ferments lactose e. unknown ferments mannitol
11. If your unknown grows on Mannitol Salt agar, turns the medium bright yellow and has a creamy white punctiform colony morphology, what species is it?
    1. *Streptococcus pyogenes b. Escherichia coli c. Salmonella pullorum*
12. *Staphylococcus aureus e. Staphylococcus epidermidis*
13. In the differential stains that you will be performing, the sample that retains the primary stain is always the positive result, so what color would your unknown be if it showed a positive result for Gram stain?
    1. pink b. purple c. green d. green and pink e. purple and pink
14. In the differential stains that you will be performing, the sample that retains the primary stain is always the positive result, so what color would your unknown be if it was a positive in the Acid-fast stain?
    1. pink b. purple c. green d. green and pink e. purple and pink
15. In the differential stains that you will be performing, the sample that retains the primary stain is always the positive result, so what color would your unknown be if it was a positive in the Endospore stain?
    1. pink b. purple c. green d. green and pink e. purple and pink