**Lab Performance Exam**

**Student Lab Report**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Number on your unknown tubes: \_\_\_\_\_\_\_\_

You will be given two numbered culture tubes; one broth and one agar. The number on both tubes should be the same. (If it isn’t you must notify your instructor immediately.) Record this number on the line above. Both tubes contain the same “unknown” organism.

Observe the culture’s characteristics in broth and agar and record those observations below.

1. Identify the color of the colony as it grows on agar.

2. Describe the location of the culture’s growth in the broth (top, bottom, throughout) and   
 what this says about its oxygen requirements.

Complete a Gram Stain and Acid Fast stain of the organism. Observe the organism using the oil immersion objective of your microscope and record your observations below.

3. Cell shape:

4. Arrangement of the cells:

5. Are spores present or absent? (If they should be present but can’t be seen, this should be   
 noted as well.)

6. Gram Stain results (+ or – and color):

7. Acid Fast results (+ or – and color):

8. Identify the bacteria (no abbreviations): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Microbiology Lab Midterm**

**Day 1 (34 points)**

Sterile Transfer (16 points)

Procedure (6) \_\_\_\_\_

Labeling (2) \_\_\_\_\_

Caps Loose – yes or no (4) \_\_\_\_\_

Contamination – yes or no (4) \_\_\_\_\_

Misc. deductions (noted below) \_\_\_\_\_

Streak Plate (18 points)

Proper labeling/sections (3) \_\_\_\_\_

Inoculant acquired correctly (2) \_\_\_\_\_

Procedure (6) \_\_\_\_\_

Digging – yes or no (2) \_\_\_\_\_

Plate inverted – yes or no (1) \_\_\_\_\_

Isolation (4) \_\_\_\_\_

Misc. deductions (noted below) \_\_\_\_\_

**Day 2 (66 points)**

Microscope Use (8 points)

Proper focus of Gram stained slide – yes or no (4) \_\_\_\_\_

Proper focus of Acid Fast stained slide – yes or no (4) \_\_\_\_\_

Staining Procedure (18 points)

Proper Gram stain observed – yes or no (6) \_\_\_\_\_

Proper Gram stain smear preparation – yes or no (3) \_\_\_\_\_

Proper Acid Fast stain observed – yes or no (6) \_\_\_\_\_

Proper Gram Acid Fast smear preparation – yes or no (3) \_\_\_\_\_

Misc. deductions (noted below) \_\_\_\_\_

Student Lab Report (40 points) \_\_\_\_\_

**Total \_\_\_\_\_**