

Name:
Lab Homework 10

Section #
Due at the start of the lab

1. When discussing antibiotics, there are many things we can talk about: bactericidal v. bacteriostatic, minimum inhibitory concentrations, broad spectrum v. narrow spectrum, the susceptibility and resistance of microorganisms. Which of these characteristics does the antibiotic disc diffusion assay address? How is that determined in this assay? (1 point)
2. UV light damages DNA. What bases in the DNA specifically does it damage? What chemical changes that occur, or how does the physical structure of the DNA change? How do these changes kill cells? (1 point)
3. What is a bacteriophage plaque? How is it similar to a bacterial colony? Why are plaques "clear?" (1 point)

4. This is that data from a contact time assay for a bathroom cleaner:

Time (min)	0	0.5	1	5	10
Growth (+) or No Growth (-)	+	+	+	+	-

How can you use this data when cleaning your bathroom? How long would you need to apply the cleaner to disinfect a surface?