**Microbiology Unit Test Study Guide**:  
\*This test will cover everything from the Disease and Biotechnology Unit including: viruses, bacteria, parasites, fungi, epidemic, pandemic, and biotechnology. This study guide is a guide, not an exhaustive list. Any material found in your notes, or throughout class activities are fair game for this test. Answer the following questions, in complete sentences on a separate sheet of paper. The more you write, study, and prepare, the better you will do on the test.

1. What is the general structure of viruses? What do all viruses have in common?
2. What is necessary for the survival and reproduction of viruses?
3. Compare and contrast viruses and bacteria.
4. Which microbes can live in extreme conditions such as no oxygen, extreme temperatures? Which part of their structure allows for this?
5. How are viruses and living things alike?
6. What is microbiology?
7. What does it mean to be prokaryotic? Eukaryotic? Which microbes (viruses, bacterias, parasites, and fungi) are prokaryotic? Which are eukaryotic?
8. Antibiotics inhibit or stop the growth of: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
9. What are the characteristics of fungi?
10. What is the difference between an epidemic and a pandemic?
11. How is it possible that Influenza continued to be deadly, even after it has been around for so long?
12. What are the characteristics of epidemics?
13. What are the characteristics of pandemics?
14. How has biotechnology benefited NC farmers?
15. What are the tools of biotechnology?
16. What is a parasite? Give an example of a parasitic relationship and explain why it is considered parasitic.
17. How can viruses be transmitted? How can you protect yourself?
18. What is antibiotic resistance? Why is this a problem?

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