

Microbiology Pre-Test Study Sheet

Name:

Date:

1. Define (or draw) the following terms:

Prokaryote

Coccus

Bacillus

Spirillum

Streptobacilli

Chemoheterotroph

Photoheterotroph

Photoautotroph

Chemoautotroph

Obligate aerobe

Obligate anaerobe

Facultative anaerobe

R₀ (R naught)

CDC

WHO

Patient zero

Prophage

Provirus

2. Draw the process of binary fission. Label everything! What is the end result?

3. Draw the process of conjugation below. Label everything!!! Why is conjugation thought of as a form of sexual reproduction?

4. Draw a Venn diagram comparing archaeobacteria and eubacteria.

12. Explain and/or draw the processes of transformation and transduction.

13. Draw **and** explain how antibacterial resistance can occur.

14. Draw and label a bacteriophage. Draw and label an enveloped retrovirus.

15. A typical virus is composed of a core of _____ or _____ surrounded by a _____.

16. What are the characteristics of viruses? Do these support the idea that they are living or non-living?

17. Describe some of the body's basic lines of defense against infection. (Textbook p. 1036 – 1042 is a helpful read, but you know this already because you did your reading guide! Your notes have just a few of your body's defenses)
18. What is an advantage to having a viral envelope? What are two advantages that retroviruses have over normal viruses?
19. Draw and label the lytic and lysogenic cycles. Explain what is happening in each well labeled step!
20. What is an antigen? How is it related to viral specificity?