

Microbiology for Health Sciences

Chapter 10 Study Aid

Name: _____

PRINT AND HANDWRITE YOUR ANSWERS!

1. What are chemotherapeutic agents?
2. What are antimicrobial agents?
3. Who is Alexander Fleming?
4. What organisms produce antibiotics – bacteria, fungi or both? Why do you think these organisms produce these antibiotics?
5. Some antimicrobials interrupt cell wall synthesis. Why would this be bad for a bacteria?
6. What is an example of an antibiotic that interrupts cell wall synthesis?
7. Antibiotics that inhibit protein synthesis do so by having an effect on what cell structure?
8. What is an example of an antimicrobial that disrupts cell membranes?

13. If a bacteria is not affected by an antimicrobial agent it is said to be _____. If a bacteria is affected by an antimicrobial agent it is said to be _____.
14. How does a bacteria become a superbug?
15. Can antibiotics be used to treat a viral infection?
16. Look at table 10.2, describe the following for Vancomycin:
- Is this an antimicrobial that works against bacteria, viruses or parasites?
 - Describe the mode of action (what does it do to the microbe?).
 - What is the route of administration?
 - What is the method of resistance (how have some microbes evolved to become resistant)?
17. Look at table 10.2, describe the following for Ciprofloxacin:
- Is this an antimicrobial that works against bacteria, viruses or parasites?

