

## Ch. 20 Study Guide: Pathogens

BRING YOUR CALCULATOR ON TEST DAY—NO SHARING IS ALLOWED!

### **Bacteria**

- Kingdom?
- How are they categorized? Know specifics for each. (this is a big question)
- Name and describe the primary and secondary forms of DNA in a bacterium.
- What is an antibiotic? How does it work?
- Name the four antibiotics discussed in lecture and for what conditions they are used.
- How do bacteria reproduce?
- In what year was penicillin first used on a human patient?
- Exponential Growth and Decay Graphing
- What is the equation to calculate the number of bacteria reproducing via binary fission?
- What is an endospore and why is it used?
- Know different common bacterial infections and the names of the bacteria that cause them discussed in lecture.
- Who is Alexander Fleming?

### **Viruses**

- Why is there a debate regarding the state of viruses?
- What are the parts to a virus?
- Name the four shapes of viruses and give one example of a virus with that particular shape.
- How was the term vaccine coined?
- Who is Jonas Salk?
- Who is Edward Jenner? James Phipps?
- What is *different* about the pathology of HIV and how it infects host cells?
- What's the difference between lytic and lysogenic viral replication?

\*Chapter Vocabulary

\*Chapter Review Questions