

## **Study Guide Bacteria, Viruses and the Immune System**

### **Bacteria**

1. What are the basic shapes of bacteria cells?  
spherical (cocci), rod (bacilli), spiral (spirilla), comma (vibrios) or corkscrew (spirochaetes).
2. What happens during conjugation of bacteria?  
Transfer of genetic material between bacterial cells by direct cell-to-cell contact or by a bridge-like connection between two cells.
3. How do the three major classes of antibiotics work to kill bacteria?
  - a. Beta-Lactam -- Penicillin derivatives, cephalosporins, monobactams, carbapenems and carbacephem's.
  - b. Macrolides -- Treating respiratory, skin, soft tissue, sexually transmitted
  - c. Quinolones -- These enzymes relax DNA supercoils and enable DNA replication and repair

### **Virus**

4. What is the basic structure of a virus?  
The simplest virions consist of two basic components: nucleic acid (single- or double-stranded RNA or DNA) and a protein coat
5. What is happening during the two viral cycles:
  - a. lytic cycle  
The virus hijacks the host cell, degrades the host chromosome, and makes more viral genomes.
  - b. lysogenic cycle  
The lytic cycle leads to the death of the host, whereas the lysogenic cycle leads to integration of phage into the host genome
6. Why are vaccines less effective against RNA viruses?

Examples like the flu vaccine work by coding for a specific type of antigen which are only made for individual specific viruses. In which case Vaccines would take more time and building to be more effective.

### **Immunity & Immune System**

7. The first line of defense against infections includes skin, mucus, cilia, saliva and stomach acid. Briefly describe how each of these protects us from potential invaders:
  - a. Skin – Protects from microbes and the elements, helps regulate body temperature, and permits the sensations of touch, heat, and cold.
  - b. Mucus – Mucus traps inhaled particles like dust, allergens, bacteria, or viruses and keeps them from getting deeper into your lungs.
  - c. Cilia – The special cells line and protect the nose, throat and other passages within your body. The inner lining of your gut and lungs also produces mucus to trap invading pathogens
  - d. Stomach acid – The hydrochloric acid kills bacteria, protecting your body from harmful microbes which can enter your body in food

# Immune System 24 Study Guide Answers

**LP Steffe**



## **Immune System 24 Study Guide Answers:**

## Embracing the Song of Term: An Psychological Symphony within **Immune System 24 Study Guide Answers**

In a world used by monitors and the ceaseless chatter of instantaneous conversation, the melodic beauty and emotional symphony developed by the written term usually fade in to the backdrop, eclipsed by the constant sound and disturbances that permeate our lives. Nevertheless, situated within the pages of **Immune System 24 Study Guide Answers** a charming fictional value full of fresh feelings, lies an immersive symphony waiting to be embraced. Crafted by a masterful composer of language, that captivating masterpiece conducts visitors on a mental journey, skillfully unraveling the concealed songs and profound influence resonating within each carefully crafted phrase. Within the depths of the moving evaluation, we can discover the book is key harmonies, analyze their enthralling publishing style, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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