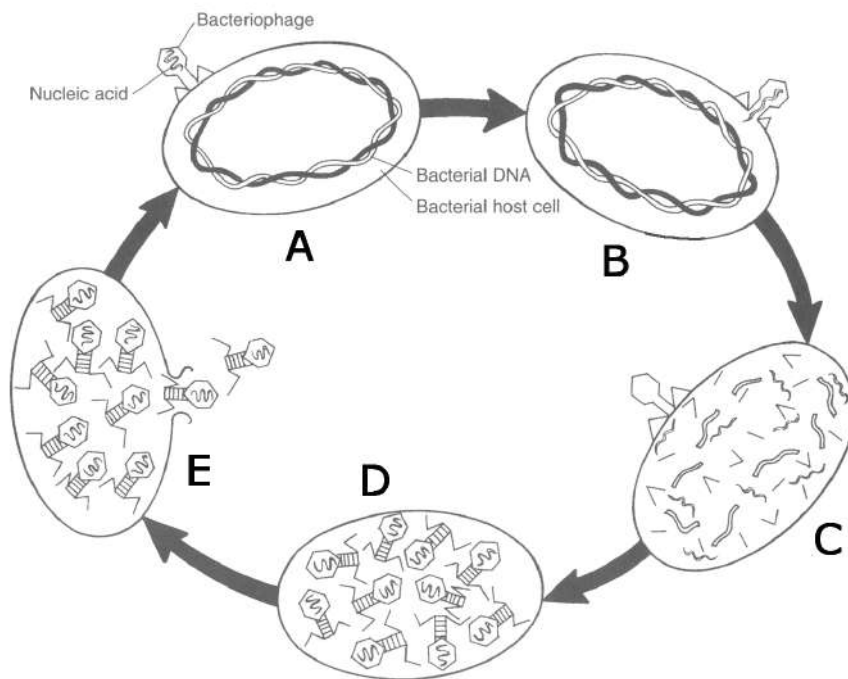


Biology I Review: Viruses and Immunology

Instructions: Answer the following questions and will be prepared for tomorrow's test!

1. What is a virus made of?
2. List five reasons why we consider viruses to be non-living.
3. List three characteristics viruses share with living things?
4. Do viruses usually have many or few hosts?
5. Viruses called bacteriophages attack what living things?
6. How can a virus find a host cell?
7. When a virus takes over the machinery of a cell, what does it cause the cell to do?



8. Name stages A-E of the lytic cycle
9. List the events that occur in stages A-E of the lytic cycle
10. What does latent mean?
11. What is a provirus and when is it formed? Why is the immune system ineffective against a provirus?

12. Compare and contrast the lytic and lysogenic cycle?
13. Would a person feel ill more quickly if they had a lytic or lysogenic virus?
14. How is the AIDS virus spread?
15. What type of cells does HIV attack?
16. What is the body's first line of defense against pathogens (germs)?
17. Openings in the body must be protected. Explain how the eye, ears and mouth are protected.
18. The foreign protein patterns on a germ are called _____.
19. What cells could engulf a germ by phagocytosis?
20. When a macrophage engulfs a germ, what does it become?
21. What type of cell binds to an APC (antigen presenting cell)?
22. What happens when a T-cell binds with an APC?
23. What do B-cells do?
24. What is the function of a plasma cell?
25. Where do plasma cells come from?
26. How do antibodies attack germs?
27. When do memory cell form and what is their function?
28. How does a vaccine work?
29. How do cytotoxic T-cell or T-killers attack germs?
30. What activates Cytotoxic T-cell?