

Viruses and Prokaryotes

Study Guide A**Answer Key****SECTION 1. STUDYING VIRUSES AND PROKARYOTES**

1. microorganism, infection
2. DNA, RNA, protein, infection
3. infection, pathogen
4. b
5. Virus: single, RNA, protein, reproduce, proteins, cells. Viroid: living, plants, circular, RNA, protein. Prion: proteins, proteins, protein, mad cow disease.
6. prion
7. pathogen
8. viroid
9. pathogen
10. prion
11. viroid
12. virus
13. virus

SECTION 2. VIRAL STRUCTURE AND REPRODUCTION

1. Enveloped: round, with spikes. Helical: helix shape. Polyhedral: many-sided.
2. b
3. a
4. c
5. a
6. DNA, viruses, membrane, virus particles
7. DNA, DNA, genes, prophage, divides, DNA
8. entering, cell
9. bacteriophage
10. prophage
11. egypt
12. lysogenic infection
13. lytic infection

SECTION 3. VIRAL DISEASES

1. b
2. b
3. a
4. d
5. b
6. b
7. weakened
8. mild
9. surface proteins
10. the only way
11. retrovirus
12. epidermis
13. vesicles
14. b
15. c
16. a
17. d
18. a

SECTION 4. BACTERIA AND ARCHAEA

1. b
2. b
3. left side: peptidoglycan
4. right side: extrinsic, spikes
5. bottom: cell, wall, membrane, move
6. false
7. false
8. true
9. true
10. true
11. false
12. c
13. c
14. f
15. a
16. b
17. g
18. d

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ω represents the frequency of a sine wave when we write it this way $\sin \omega t$ if $\omega = 1$ the sin completes one cycle in 2π seconds if $\omega = 2\pi$ the sin completes one cycle sooner every 1 second for $f = 1$ if $\omega = 2\pi f$ the sin completes one cycle even faster every $1/f$ seconds or equivalently sin completes f cycles in 1 second

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