

# Classification, Bacteria, and Viruses ATA Study Guide

## ANSWERS

1. Who developed the first classification system that divided organisms into two groups: plants and animals? **Aristotle**
2. Who developed the binomial nomenclature system of classification that we still use today? **Linnaeus**
3. How would you write the correct way to write the scientific name of the Northern cardinal? ***Cardinalis cardinalis***
4. List the taxa from broadest to most specific. **Domain, Kingdom, Phylum, Class, Order, Family, Genus, Species**
5. True or false: A taxonomic class contains related orders. **True**
6. A taxon of related phyla is called a... **Kingdom**
7. What reflects the evolutionary history of a species? **Phylogeny**
8. Which type of character is found within an entire line of descent of a group of organisms? **Ancestral**
9. A type of characteristic that has evolved in related species over time is known as what? **Derived**
10. True or false: When constructing a cladogram, the more derived traits shared by groups, the more recently the groups share a common ancestor. **True**
11. In a dichotomous key, what type of characteristics are you using to classify the organisms? **Physical**
12. What gives each species a scientific name that has two parts? **Binomial nomenclature**
13. What are the four kingdoms of Domain Eukarya? **Protista, Fungi, Plantae, and Animalia**
14. What two Domains are prokaryotes? **Domain Bacteria and Domain Archaea**
15. What kingdom would a mushroom be classified in? **Fungi**
16. What Kingdom does not have a cell wall? **Animalia**
17. What Domain and Kingdom would a paramecium be classified in? **Domain Eukarya, Kingdom Protista**
18. How are the Kingdoms Fungi and Plantae different? **Fungi's cell walls are made of chitin**
19. What type of environments are Archaea often found in? **Extreme**
20. What type of cell is a plant? **Multicellular eukaryote**
21. Unlike Eubacteria, Archaeabacteria DO NOT have what in their cell walls? **Peptidoglycan**
22. What Domain does the American black bear belong to? **Domain Eukarya**
23. What color does a Gram positive bacteria appear? **Dark purple**
24. What color does a Gram negative bacteria appear? **Light purple**
25. What is the name of round shaped bacteria? **Cocci**
26. What is the name of a rod shaped bacteria? **Bacilli**
27. What is the name of a spiral shaped bacteria? **Spirochetes**
28. If you do go to the doctor and they give you an antibiotic, you probably have what kind of infection? **Bacterial infection**
29. What are viruses made of? **Genetic material and protein**
30. Why aren't viruses considered living? **They have no organelles to take in nutrients or use energy, can't make proteins, can't move, can't replicate on their own, and not made of cells**
31. What two cycles do viruses go through to replicate? **Lytic Cycle and Lysogenic Cycle**
32. Name five steps in the Lytic cycle. **1. Virus lands on host cell, 2. Virus injects its DNA into the cell, 3. Viral DNA is used by cell to make virus parts, 4. Viruses are assembled in the cell, 5. The new viruses break out of the cell.**
33. From the steps above, what would you need to add to describe a lysogenic cycle? **The viral DNA becomes a part of the cell's DNA**

# Viruses Bacteria Biology Study Guide Answers

**BM King**



## **Viruses Bacteria Biology Study Guide Answers:**

The Top Books of the Year Viruses Bacteria Biology Study Guide Answers The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the captivating narratives that have captivated audiences this year. The Must-Read : Colleen Hoover "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Viruses Bacteria Biology Study Guide Answers : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Pape, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and suspenseful novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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