

HMD Biology Chapter 18 Biology Test Review KEY- (Viruses & Bacteria)

Name _____ Date _____ Class _____

1. What is a protective covering that some bacteria form for protection under harsh conditions?

ENDOSPORE

2. The outer protein coat of a virus is called what? **CAPSID**

3. Bacteria that make their own food by obtaining their energy by removing electrons from inorganic molecules to make food, rather than obtaining energy from the sun are called what?

Chemoautotroph.

4. Know the difference between the following: (describe each one below)

A) Photoautotrophs- *make own food using sunlight*

B) Chemoautotrophs- *Make own food using chemicals*

C) Chemoheterotrophs - *can't make own food & must "eat chemicals" or organic matter.*

D) Photoheterotrophs- *Do photosynthesis AND eat organic matter or chemicals*

5. Know the difference between the following: (Describe each below)

A) Obligate aerobes – *MUST have Oxygen to live.*

B) Obligate anaerobes – *Must NOT have oxygen (may die in presence of oxygen)*

C) Facultative Anaerobes – – *Can live with or without oxygen.*

6. Rod-shaped bacteria are called **Bacillus or Bacilli.**

7. Round or sphere bacteria are called **Coccus or Cocci.**

8. Spiral bacteria are called **Spirilla or Spirillae**

9. The **LYTIC** cycle is a cycle of viral infection, replication, and cell destruction.

10. T or F. "Viruses are considered living b/c they are capable of reproduction." - **FALSE**

11. T or F. "Viruses consist of a coat of DNA or RNA surrounded by a coat of protein. **TRUE**

12. Is the host cell destroyed during the lysogenic cycle? Yes or no? **NO.**

13. T or F. "A pathogen is harmful to living organisms b/c it causes disease." **TRUE**

14. The protective outer coat of a VIRUS is called a **CAPSID**

15. Antibiotics are effective against **BACTERIA**, but not **VIRUSES**

16. True or false: Antibiotics interfere with metabolic processes in bacteria that viruses do not have. **TRUE**

17. Tell some reasons why viruses are NOT considered LIVING. (Short-answer).

- *Viruses can't reproduce on their own without a host cell.*

- *They don't do homeostasis or metabolism.*

- *They aren't made of cells.*

18. a typical **VIRUS** consists of a protein coat and a nucleic acid core of DNA or RNA. .

19. E. coli is a bacterium with short, thin, hairlike projections called **PILLI**. These can help it stick to other cells or transfer genetic material.

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