

SELF QUIZ—VIRUSES

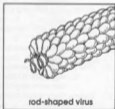
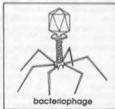
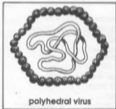
Name _____

Fill in the blanks from the word list below.

AIDS	antibodies	cells	interfeon
measles	mumps	protein	reproduction
	vaccines	weakened	

1. Viruses consist of nucleic acids covered by a coat of _____.
2. Viruses, unlike bacteria, are not composed of _____.
3. The only life function viruses can perform is _____.
4. Protection against some viral diseases can be produced by _____.
5. Name three viral diseases: _____, _____ and _____.
6. A vaccine is made from a _____ form of the virus.
7. Two natural defenses the body has against viruses are _____ and _____.

Below are diagrams of three different types of viruses. Label the nucleic acid and protein coat in the polyhedral and rod-shaped viruses. Label the capsid, collar, tail sheath, tail fiber and base plate in the bacteriophage.



BACTERIA—TYPICAL MONERANS

Name _____

Structure of Bacteria

Label the parts of a moneran on the diagram below. State the function/purpose of each.

- flagella _____
- ribosomes _____
- nucleoid _____

- cell wall _____

- cell (plasma) membrane _____

- capsule _____



Conjugation in Bacteria

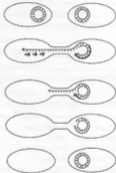
The diagrams below show conjugation, a means of genetic transfer but not reproduction in bacteria. During conjugation, a plasmid is transferred from a donor to a recipient bacterium. Label the donor bacterium, the recipient bacterium, the plasmid and the cytoplasmic bridge on the diagrams.

Answer the questions below.

- By what process do bacteria reproduce?

- What structures do some bacteria form under unfavorable conditions?

- What do the monerans lack in their cell structure that is present in most other organisms? _____
- Are the monerans prokaryotic or eukaryotic?



SELF QUIZ—MONERANS

Name _____

Put the correct answer to the questions in the blanks using the words from the list below.

1. Monerans have no definite _____, but can still carry on reproduction.
2. Monerans have no _____, but can still carry on cellular respiration.
3. Cyanobacteria may also be called _____.
4. When cyanobacteria multiply rapidly in a pond, they use up all the _____.
5. Bacteria come in what three shapes? _____, _____, _____.
6. Some bacteria have a whiplike tail called a _____.
7. Bacteria that do not need oxygen to live are called _____.
8. Bacteria reproduce by what process? _____.
9. Bacteria that live on dead organic matter are called _____.
10. Relationship between two organisms that do not harm either one is _____.
11. Two conditions bacteria need to live: _____, _____.
12. Four ways we have of controlling bacterial growth. _____

13. _____ are the oldest known and simplest organism.
14. _____ bacteria live in nodules on the roots of plants, fixing atmospheric nitrogen, thus making it available for their own metabolic activities.
15. _____ is the most important source of variability in bacteria.
16. Many scientists have suggested that _____ should be considered a separate kingdom because they are remarkably different from all the bacteria.
17. _____ are the source of a majority, over 2000 kinds, of antibiotics.
18. _____ are the causative agents of syphilis and Lyme disease.
19. _____ bacteria depend on chemical sources—ammonia, methane and hydrogen sulfide—for energy for their metabolism.
20. _____ were probably responsible for the accumulation of limestone deposits known as stromatolites.

actinomycetes
blue-green algae
freezing
nitrogen fixing
refrigeration

anaerobes
canning
mitochondria
nucleus
round rodlike

archaeobacteria
chemosynthetic
moisture
oxygen
saprophytes

binary fission
cyanobacteria
mutation
proper temperature
spiral

bacteria
flagellum
mutualism
radiation
spirochetes