



## VIRUSES: BASIC CONCEPTS

1. What is the basic structure of a virus?
  - DNA or RNA and a protein coat
  - Only DNA
  - Only RNA
  - Lipids and carbohydrates
  
2. Which of these is *not* a component of a virus?
  - Nucleic acid
  - Enzymes
  - Capsid
  - Mitochondria
  
3. What is the protein coat surrounding the genetic material of a virus called?
  - Capsid
  - Envelope
  - Membrane
  - Shell
  
4. How do viruses typically enter a human cell?
  - Osmosis
  - Endocytosis
  - Active transport
  - Filtration

5. What specific part of the host cell do viruses hijack for replication?
- Chloroplasts
  - Nucleus
  - Ribosomes
  - Endoplasmic reticulum
6. Which of the following is NOT a type of viral structure?
- Helical
  - Icosahedral
  - Pentagonal
  - Complex
7. What is the function of the viral envelope?
- It provides structural support
  - It helps in attachment to host cells
  - It stores genetic material
  - It produces ATP
8. How do viruses differ from bacteria in terms of their living characteristics?
- Viruses are larger
  - Viruses require a host to replicate
  - Viruses are considered fully living organisms
  - Viruses can undergo metabolism independently
9. What can vaccines typically trigger in the body to fight against viruses?
- Production of antibodies
  - Increased blood pressure
  - Decrease in white blood cells
  - Production of alcohol

10. In what way do antiviral drugs usually work to fight viruses?

- They strengthen the cell walls
- They inhibit replication of the virus
- They increase white blood cell count
- They enhance photosynthesis

11. What is the process called when a virus leaves a host cell, often destroying it?

- Endocytosis
- Mitosis
- Lysis
- Exocytosis