

Viruses Quiz PDF

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What is the function of the capsid in a virus?

- Replicate the virus
- Protect the viral genetic material
- Provide energy to the virus
- Facilitate viral movement

Which type of virus contains an outer lipid membrane?

- Non-enveloped virus
- Helical virus
- Enveloped virus
- Icosahedral virus

Which of the following is a misconception about viruses?

- They can infect all types of life forms.
- They are considered living organisms.
- They can only replicate inside living cells.
- Antibiotics are ineffective against them.

Outline the steps involved in the viral replication process within a host cell.

Which of the following viruses is known for causing a pandemic in 2020?

- HIV
- Influenza
- Coronavirus (SARS-CoV-2)
- Hepatitis

Which of the following is NOT a symptom commonly associated with viral infections?

- Fever
- Fatigue
- High blood pressure
- Muscle pain

Which of the following are true about viral life cycles? (Select all that apply)

- Attachment to host cell
- Photosynthesis
- Replication using host machinery
- Release of new viruses

How do zoonotic viruses pose a threat to human health, and what measures can be taken to mitigate this risk?

Which of the following are components of a virus? (Select all that apply)

- Genetic material
- Ribosomes
- Capsid
- Envelope

Which of the following viruses are transmitted through bodily fluids? (Select all that apply)

- HIV
- Influenza

- Hepatitis B
- Herpes simplex

What is the primary component of a virus that encodes its genetic information?

- Protein
- Lipid
- DNA or RNA
- Carbohydrate

Which of the following is NOT a common shape of viruses?

- Helical
- Spherical
- Icosahedral
- Complex

Explain how a virus differs from a bacterium in terms of structure and replication.

What are common modes of virus transmission? (Select all that apply)

- Direct contact
- Airborne
- Vector-borne
- Photosynthesis

Discuss the significance of the viral envelope and how it affects the virus's ability to infect host cells.

What is the primary method of transmission for the influenza virus?

- Vector-borne
- Airborne
- Waterborne
- Direct contact

Which of the following practices help prevent viral infections? (Select all that apply)

- Vaccination
- Handwashing
- Using antibiotics
- Wearing masks

Describe the role of vaccines in the prevention of viral infections and provide an example of a disease preventable by vaccination.

Which viruses are known to have caused significant pandemics in history? (Select all that apply)

- Influenza
- HIV
- Hepatitis
- Coronavirus (SARS-CoV-2)

What are some challenges associated with developing antiviral drugs? Provide examples.

