

Virus Replication

Name:

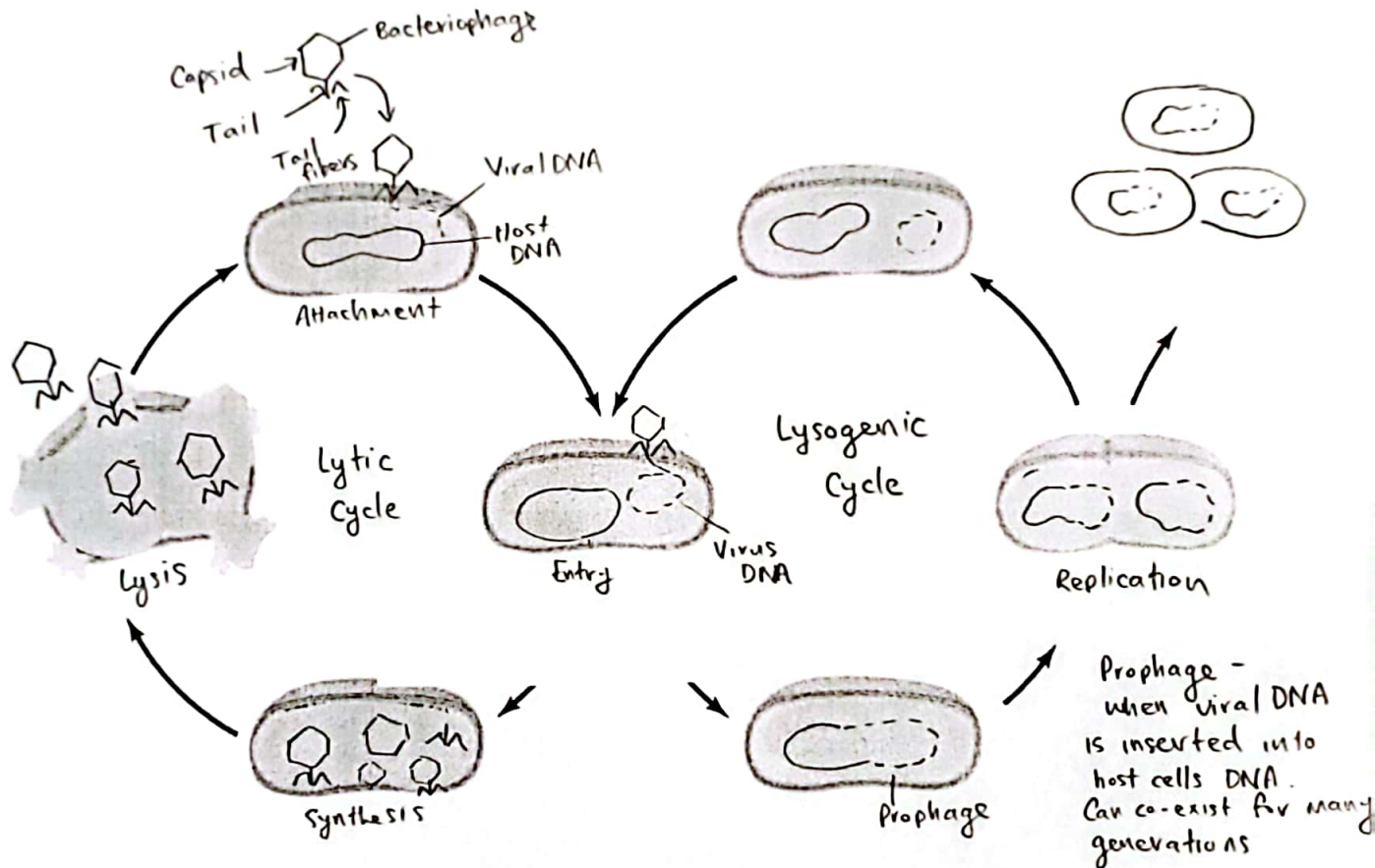
Date:

1. Sketch the stages of a bacteriophage infection in the host cell below. Label your diagram with the following terms:

Lytic Cycle
Lysogenic Cycle
Bacteriophage
Attachment
Entry

Synthesis
Lysis
Replication
Prophage
Host-DNA

Virus-DNA
Capsid
Tail
Tail-Fibres



2. Individuals with the herpes virus often go long periods of time where they are asymptomatic, then will experience an outbreak and develop symptoms. Explain why this occurs making reference to the life cycles of viruses.

They remain asymptomatic during the dormant period (prophage) until a sudden change occurs that causes the cycle to enter the lytic cycle. Changes may be temperature, change in nutrients, starvation, etc.

3. What benefit to the virus is there by replicating via the lytic cycle only?

- ① Reproduces when host cell reproduces - uses host cells machinery to replicate.
- ② Virus won't be detected by the host cell.