

## VIRUSES WORKSHEET

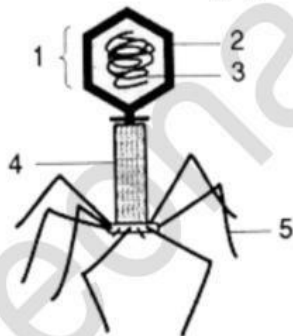
### A. VIRUSES CHARACTERISTICS AND STRUCTURE

Read question number 1-8 and their answer options carefully and choose one of the correct answers! (10)

#### Answer Options

protein	obligate intracellular parasite	acellular	capsid	nucleic acid
DNA	capsomere	envelope	virion	RNA

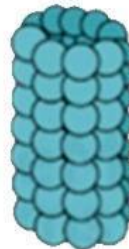
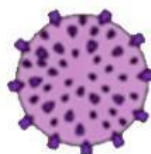
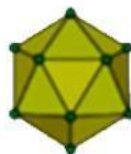
1. Viruses classified within any kingdom, they are not made out of the cell. Based on the characteristic, viruses classified into \_\_\_\_\_.
2. Viruses have to infect the living host cell. They cannot reproduce outside their host cell, meaning that the replication process is entirely reliant on intracellular resources, thus, they are called \_\_\_\_\_.
3. A virus is made up of \_\_\_\_\_ and \_\_\_\_\_.
4. The coat structure of viruses that enclose the genetic material is called \_\_\_\_\_.
5. The individual protein subunits of viral capsid called as \_\_\_\_\_.
6. Type of genetic material of viruses are \_\_\_\_\_ or \_\_\_\_\_.
7. The outermost layer of many types of viruses which protects the genetic material in their life cycle when traveling between host cells also known as \_\_\_\_\_.
8. A complete virus particle that consists of an RNA or DNA core with a protein coat sometimes with external envelopes and that is the extracellular infectious form of a virus is called \_\_\_\_\_.
9. Observe the virus image presented below and write the parts of it! (5)



1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_

### B. VIRUSES SHAPE

10. Observe the following pictures of viruses and state the correct shape or example of them! (5)



Viruses Shape : \_\_\_\_\_  
Example : Adenovirus

\_\_\_\_\_

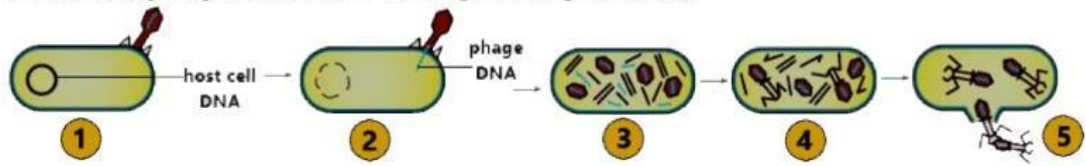
Tobacco Mosaic Virus

Complex Shape

\_\_\_\_\_

### C. VIRUSES REPLICATION

11. The following diagram shows the viral replication process. (2)



Based on the diagram:

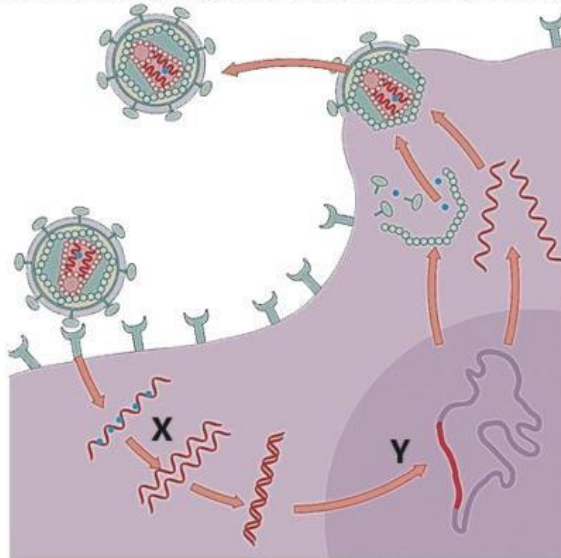
a. State the name of the stage number 3.

---

b. Explain stage number 2.

---

12. The following diagram shows the HIV replication process. (3)



Based on the diagram:

a. Write the name of enzyme which responsible in X.

---

b. Name and Describe step Y briefly.

---

---