

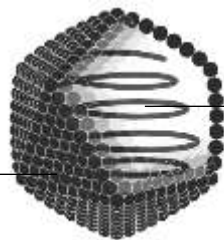
Quiz 14 – Germ Theory (30 pts)

Match the term with its definition or description. Not all terms will be used. (6 pts)

- | | |
|---|--|
| <p>_____ Achieved when a majority of a population is vaccinated for a disease; helps protect vulnerable people who cannot be vaccinated for an infection</p> <p>_____ Another word for “germ” or “microbe”</p> <p>_____ Demonstrated that certain specific pathogens produce certain specific illnesses by injecting healthy animals with pathogens isolated from sick ones</p> <p>_____ Invented techniques to kill germs with heat and prevent infection by vaccination; also disproved Spontaneous Generation helped prove Germ Theory</p> <p>_____ The practice of using weakened, dead, or deconstructed versions of a germ to “prime” the body’s immune system to create memory cells; produces artificial immunity</p> <p>_____ The practice of cleaning surfaces to kill germs and prevent their spread</p> | <p>A. Edward Koch</p> <p>B. Herd Immunity</p> <p>C. John Snow</p> <p>D. Louis Pasteur</p> <p>E. Medication</p> <p>F. Pathogen</p> <p>G. Sanitization</p> <p>H. Vaccination</p> |
|---|--|

Label the diagram of a virus using the terms below. Not all terms will be used. (2 pts)

Cytoplasm	Nucleic Acid Core	Plasma Membrane	Protein Capsid
-----------	-------------------	-----------------	----------------



For each of the following characteristics, write...

- | | |
|--|--|
| <ul style="list-style-type: none"> • “Virus” if it describes viruses only; • “Bacteria” if it describes bacteria only; | <ul style="list-style-type: none"> • “Both” if it describes both; or • “None” if it describes neither. (6 pts) |
|--|--|

Can be treated with antibiotics _____

Contains genetic material _____

Infection may be prevented by vaccines _____

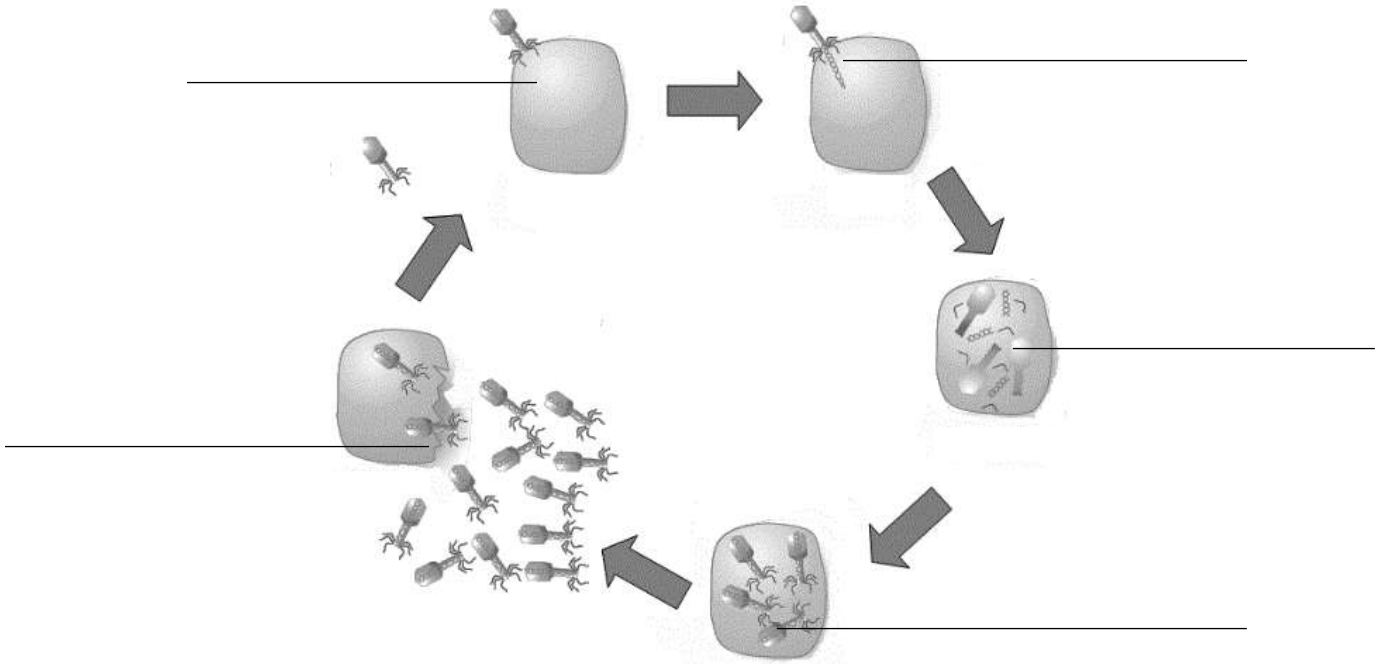
Made of cells _____

Requires a host cell to replicate _____

Visible to the naked eye (without use of a microscope) _____

Label the following diagram using the terms below. You do not have to write the words in parentheses. Not all terms will be used. (5 pts)

Assembly (of new viruses)	Attachment (of the virus)	Division (of the viral cell)
Injection (of the viral genome)	Release (of new viruses)	Replication (of viral parts)



Answer the following questions using short phrases or sentences.

1. Explain how the ultimate cause of infectious disease is different than the cause of genetic disease. (2 pt)
2. Are viruses considered to be living things? Explain your answer with 2 pieces of evidence. (3 pts)
3. Identify 2 examples of infectious diseases. For each one, identify what kind of pathogen (bacterium, virus, fungus, or protist) causes them. (4 pts)
4. Identify one important application of Germ Theory that helps protect humans from disease, and explain how it helps. (2 pts)