

Name:

Class:



Which statement about HIV is correct?

Circle the letter of the correct answer.

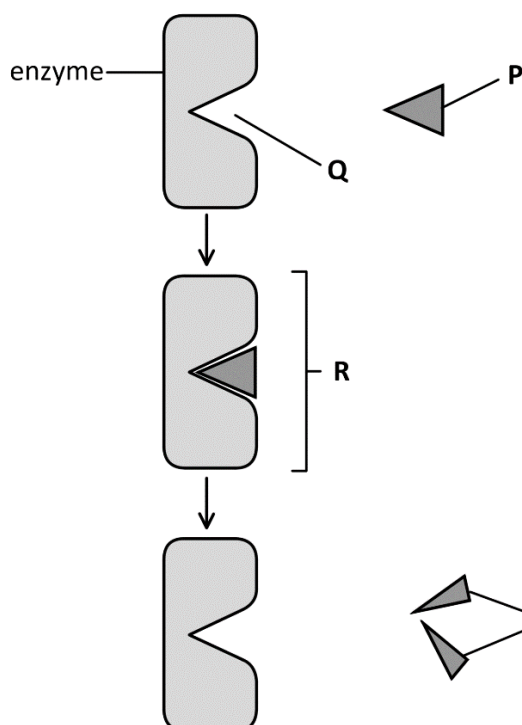
- A** It causes an increase in the number of lymphocytes.
- B** It is caused by bacteria.
- C** It increases the ability to produce antibodies.
- D** It is transmitted through sexual contact.

What happens as a result of meiosis?

- A** Diploid cells are produced.
- B** Diploid and haploid cells are produced.
- C** Genetically identical cells are produced.
- D** Haploid cells are produced.

The reactions of chemical digestion are catalysed by enzymes. The figure below shows the stages of an enzyme-catalysed reaction.

i. State the names of P to S in the figure.

P: **Substrate.**Q: **Active site.**R: **Enzyme substrate complex.**S: **Products.**

ii. Name the enzyme that digests lipids.

Lipase

iii. What are the products of lipid digestion?

Three fatty acids and one glycerol molecule.

Write down **two** ways in which anaerobic respiration in yeast cells is different from anaerobic respiration in human muscle cells.

Any **two** from:

- **alcohol produced in yeast (not humans).**
- **lactic acid produced by humans (not yeast).**
- **carbon dioxide produced by yeast (not humans).**

What is an antigen?

A molecule (usually a protein) found on the surface of a pathogen or foreign cell that triggers an immune response.

What is an antibody?

An antibody is a protein that binds to a specific antigen.