Enzymes – 2021 IGCSE 0610

1. March/2021/Paper_12/No.10

A human enzyme was used in an experiment. All factors were kept constant, apart from temperature.

What happened to the rate of reaction when the temperature was reduced steadily from 35 °C to 5 °C?

A It decreased steadily.

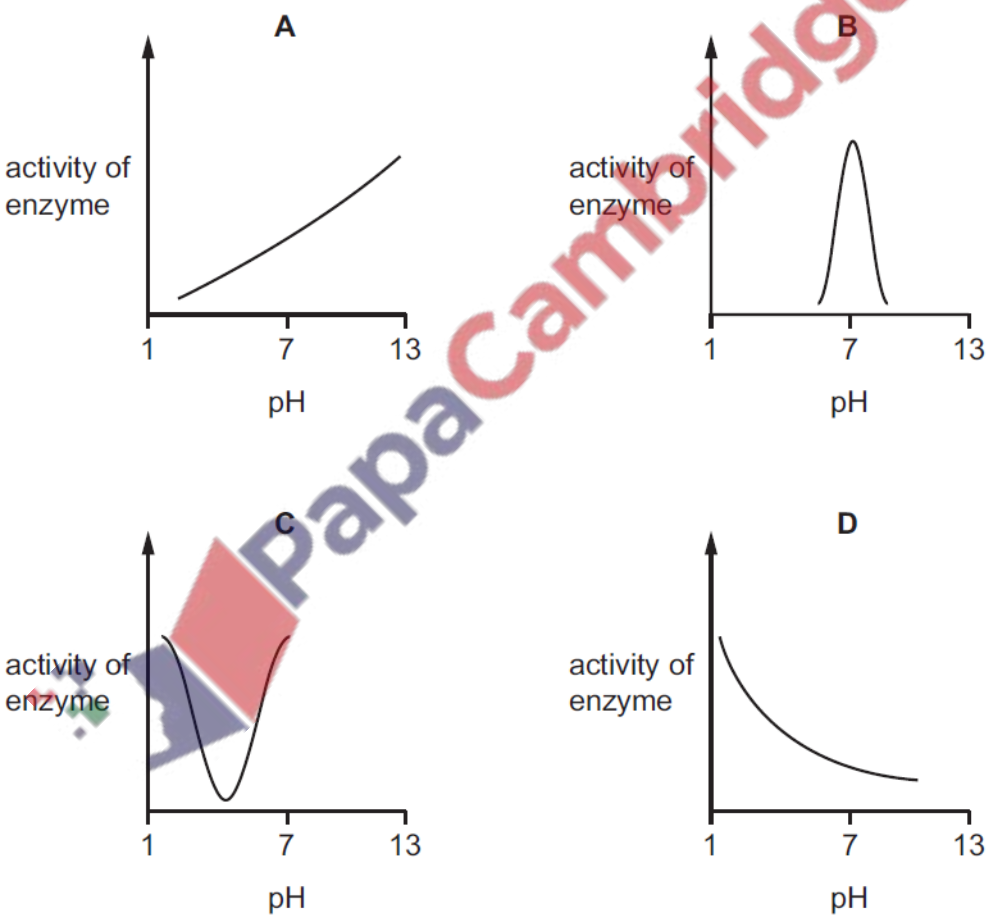
B It increased and then decreased.

C It increased steadily.

D It remained the same.

2. March/2021/Paper_12/No.11

Which graph represents the effect of pH on the activity of a digestive enzyme?



3. June/2021/Paper_11/No.11

Which statement describes a catalyst?

A a substance that decreases the rate of a chemical reaction and is not changed by the reaction

B a substance that decreases the rate of a chemical reaction and is changed by the reaction

C a substance that increases the rate of a chemical reaction and is changed by the reaction

D a substance that increases the rate of a chemical reaction and is not changed by the reaction

4. June/2021/Paper_11/No.39

What is a use of pectinase in the food industry?

A to extract juice from fruit

B to make biofuels

C to make biological washing powders

D to make bread rise

5. June/2021/Paper_12/No.11

Which statement about an enzyme-controlled reaction is correct?

A During the reaction, the substrate changes into products.

B The enzyme is gradually used up during the reaction.

C The enzyme is slowly broken down during the reaction.

D The higher the temperature, the slower the reaction.

6. June/2021/Paper_13/No.10

Starch is digested by amylase in the mouth, but it is not digested in the stomach.

What is the reason for this?

A All starch digestion is completed in the mouth.

B The pH in the stomach is not suitable for the amylase to work.

C The starch does not stay in the stomach long enough to be digested.

D The temperature in the stomach is not suitable for the amylase to work.

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9. June/2021/Paper_21/No.16

What are the products when proteins are broken down?

A amino acids

B fatty acids

C glycerol

D simple sugars

10. June/2021/Paper_22/No.12

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11. June/2021/Paper_23/No.12

Which type of molecule are enzymes made of?

A carbohydrate

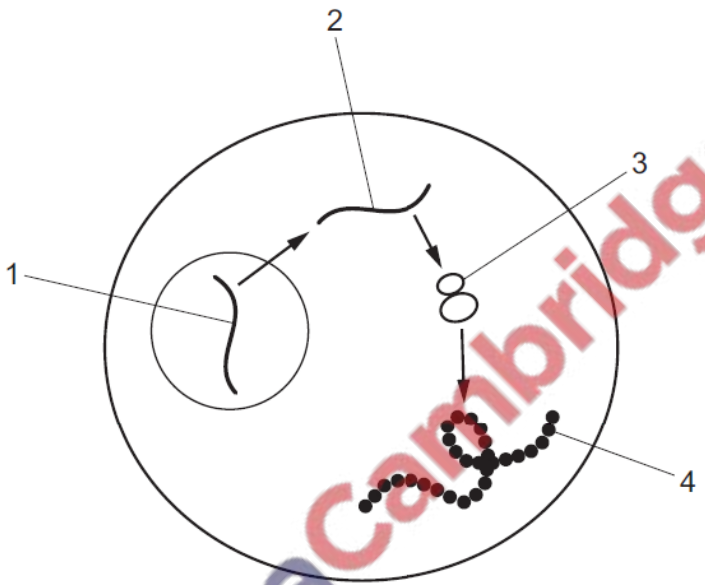
B fat

C protein

D vitamin

12. June/2021/Paper_23/No.32

The diagram shows structures involved in the synthesis of an enzyme in a cell.



What is structure 2?

A amino acids

B DNA

C mRNA

D protein