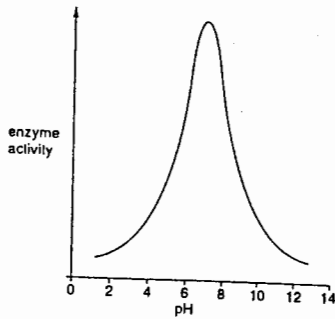


1. The graph shows the effect of pH on the activity of an enzyme.



At which pH is this enzyme most active?

- A 2 B 6 C 7 D 12

2. The table shows two properties of four different chemicals.

Which chemical is an enzyme?

chemical	molecular structure includes nitrogen	destroyed by temperatures above 65°C
A	✓	✓
B	✓	x
C	x	✓
D	x	x

key
✓ = true
x = false

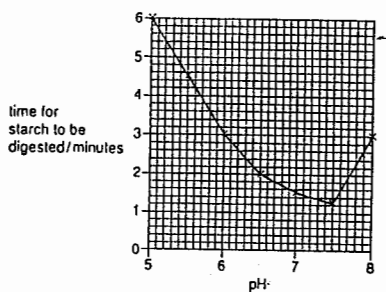
3. A student set up an experiment to investigate the effect of a mammalian enzyme on cooked egg white.

At which temperature would the enzyme be most active?

- A 25°C B 40°C C 65°C D 80°C

4. Equal volumes of amylase solution and starch solution were mixed together at different pH values.

The graph shows the time taken for each sample of starch to be completely digested.



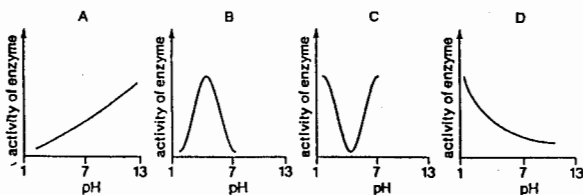
At which pH is amylase most active?

- A 5.0 B 6.5 C 7.5 D 8.0

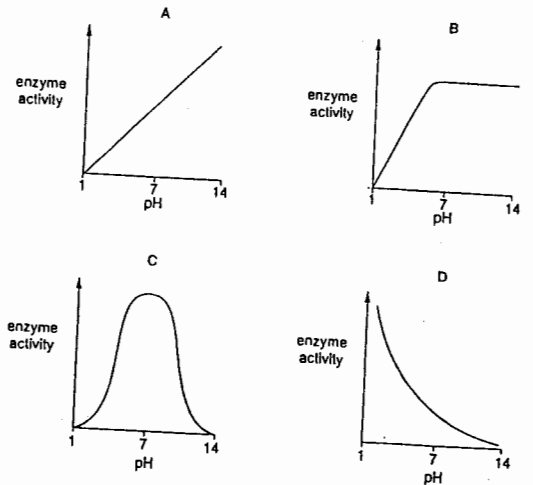
5. What helps proteins to change into polypeptides?

- A antibodies
B auxins
C enzymes
D hormones

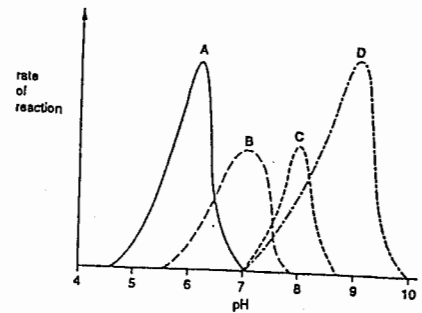
6. Which graph represents the effect of pH on the activity of a digestive enzyme?



7. Which graph shows the effect of pH on enzyme activity?



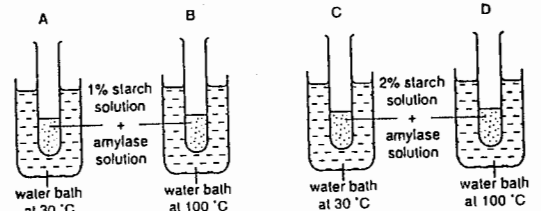
8. The graph shows how pH affects the activity of four enzymes.



Salivary amylase works best at pH 7.

Which curve represents the activity of salivary amylase?

9. The diagrams show four experiments each using 1 cm³ of amylase solution and 10 cm³ of starch solution.



Which test-tube would contain the most sugar after one day?

10. An enzyme is a

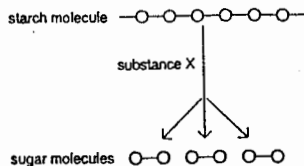
- A fat.
B mineral salt.
C protein.
D vitamin.

11. In an experiment, four test-tubes containing salivary amylase and starch were set up under the conditions shown in the table.

In which test-tube was the starch broken down most quickly?

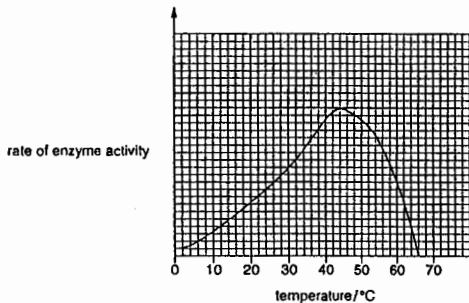
	test-tube			
	A	B	C	D
pH	3	3	7	7
temperature / °C	20	37	20	37

12. The diagram shows how a starch molecule in a leaf is broken down into smaller sugar molecules with the help of substance X.



What is substance X?

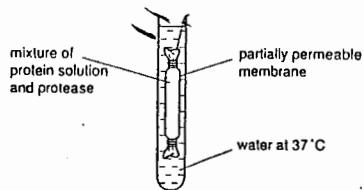
- A a carbohydrate
 B a hormone
 C a vitamin
 D an enzyme
13. The graph shows the effect of temperature on the rate of activity of an enzyme.



Which statement is correct?

- A Enzyme activity is greatest at 65 °C.
 B Enzyme activity is slowest at 10 °C.
 C Enzyme activity stops at 42 °C.
 D Enzyme activity is the same at 26 °C and 60 °C.

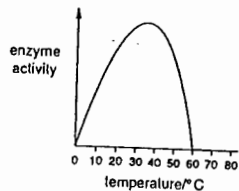
14. An experiment was set up as shown in the diagram.



After 15 minutes the water was tested.

Which substance was found in the water in the test-tube?

- A amino acids
 B fatty acids
 C glucose
 D glycerol
15. The graph shows the effect of temperature on the activity of an enzyme.



At which temperature is the enzyme most active?

- A 15 °C B 25 °C C 35 °C D 60 °C