

Chapter 5

Enzymes

Test yourself questions

1 Which statement about enzymes is true?

2 Catalase catalyses a reaction in which hydrogen peroxide is broken down to water and oxygen.

What are the substrate and product in this reaction?

substrate

product

3 What is an active site?

4 Some catalase was added to some hydrogen peroxide. Bubbles of oxygen were given off. After a while, the reaction stopped.

Why did the reaction stop?

5 Which type of enzyme digests starch?

- 6 What is the function of amylase in germinating seeds?

- 7 Apple juice can be made by crushing apples. Why is pectinase added to the crushed apples?

- 8 Why are biological washing powders better than ordinary washing powders for removing blood stains from clothes?

- 9 The antibiotic penicillin is made from *Penicillium*. What kind of organism is *Penicillium*?

- 10 Amino acids are added to the fermenter in which the *Penicillium* is growing. What other substances are added?