

14 Which statements are correct descriptions of methods of preventing pathogens from entering the body?

- 1 Fibrin is converted to fibrinogen to form a mesh.
- 2 Phagocytes produce antibodies.
- 3 Platelets clot blood.
- 4 Lymphocytes engulf pathogens.

A 1, 3 and 4 **B** 1 and 3 only **C** 2 and 4 **D** 3 only

16 Three statements about immunity are listed.

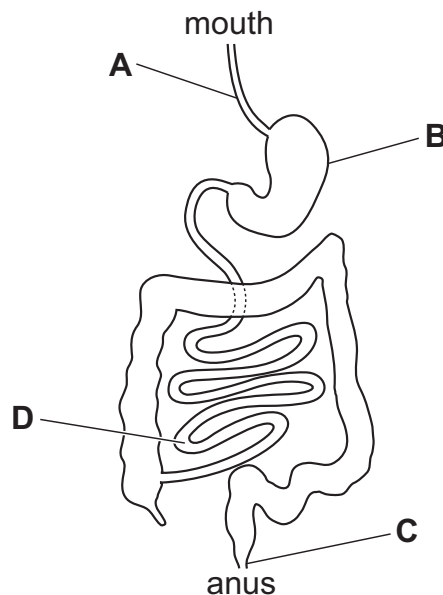
- 1 Specific antibodies are produced in response to specific antigens.
- 2 Pathogens have specific antigens.
- 3 A vaccination stimulates an immune response.

Which statements are correct?

A 1, 2 and 3 **B** 1 and 3 only **C** 1 only **D** 2 and 3 only

15 The diagram shows the human digestive system.

Where do cholera bacteria cause the secretion of chloride ions?



22 Which action would help to limit the development of antibiotic resistance in bacteria?

- A** Use antibiotics frequently to prevent infection by antibiotic-resistant bacteria.
- B** Use antibiotics only to treat bacterial infections.
- C** Use antibiotics to treat all types of infections.
- D** Use antibiotics to treat only viral infections.

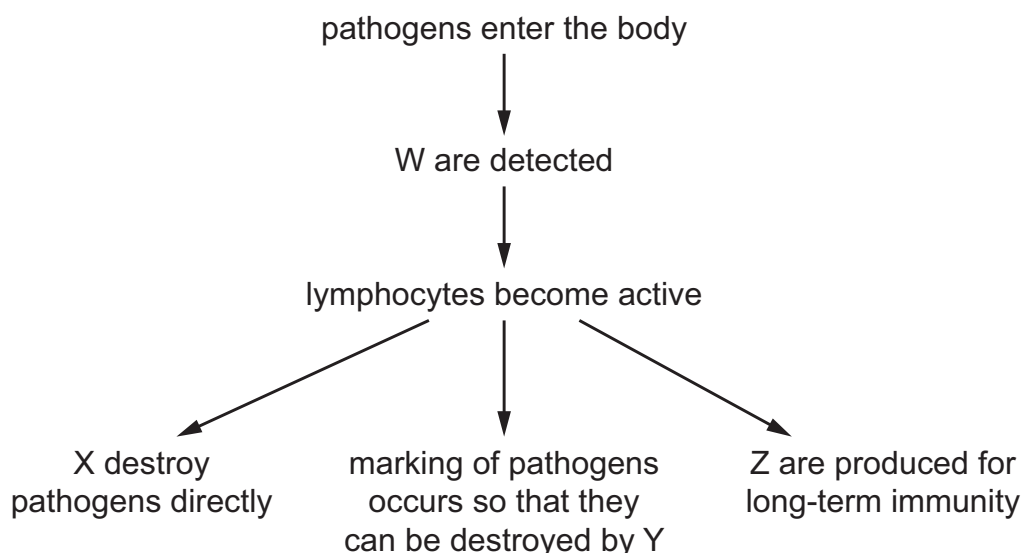
17 What is an example of active immunity?

- A** antibody production after infection
- B** antibody transfer from mother to baby in breast milk
- C** antibody transfer from mother to fetus across the placenta
- D** an injection of antibodies that were produced by another individual

26 What can antibiotics treat?

- A** all diseases caused by pathogens
- B** cholera
- C** HIV (human immunodeficiency virus)
- D** rickets

16 The diagram shows what happens in the body during active immunity.



Which structures or cells represent W, X, Y and Z?

	antibodies	antigens	memory cells	phagocytes
A	W	X	Y	Z
B	W	X	Z	Y
C	X	W	Y	Z
D	X	W	Z	Y

17 Cholera is a disease caused by a bacterium called *Vibrio cholerae* which produces a toxin in the infected person's gut.

What is the effect of this toxin?

- A** The toxin causes loss of water from the gut into the blood.
- B** The toxin causes loss of water from the gall bladder into the blood.
- C** The toxin causes water to enter the gut from the blood.
- D** The toxin causes water to enter the gall bladder from the blood.

26 Which statement describes the effect of antibiotics?

- A** Antibiotics do **not** affect bacteria or viruses.
- B** Antibiotics kill bacteria but do **not** affect viruses.
- C** Antibiotics kill both bacteria and viruses.
- D** Antibiotics kill viruses but do **not** affect bacteria.

19 Three statements about immunity are listed.

- 1 The transfer of antibodies from mother to baby in breast milk is an example of passive immunity.
- 2 Passive immunity results in long-term immunity because of the production of memory cells.
- 3 Active immunity is gained after vaccination with antigens.

Which statements are correct?

- A** 1, 2 and 3 **B** 1 and 2 only **C** 1 and 3 only **D** 2 and 3 only