

1. March/2020/Paper_12/No.21

Which disease is transmissible?

- A** cholera
- B** chronic obstructive pulmonary disease
- C** lung cancer
- D** scurvy

2. March/2020/Paper_22/No.14

The list shows some human health problems.

- 1 chronic obstructive pulmonary disease
- 2 constipation
- 3 coronary heart disease
- 4 obesity

Which problems can be caused by malnutrition?

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

3. March/2020/Paper_22/No.15

Cholera infection can cause the following events:

- 1 cells lining the small intestine secrete chloride ions
- 2 cholera bacteria produce a toxin
- 3 chloride ions move into the small intestine
- 4 water from the blood moves into the small intestine by osmosis
- 5 water potential of fluid in the small intestine becomes lower.

Which sequence of events will cause diarrhoea?

- A** 1 → 3 → 2 → 4 → 5
- B** 2 → 1 → 3 → 5 → 4
- C** 3 → 1 → 4 → 5 → 2
- D** 2 → 3 → 1 → 4 → 5

4. March/2020/Paper_22/No.2

Using the binomial naming system, the Arctic fox is called *Vulpes lagopus*.

Which row is correct?

	<i>Vulpes</i>	<i>lagopus</i>
A	genus	kingdom
B	genus	species
C	species	genus
D	species	kingdom

5. June/2020/Paper_11/No.17

What is a chemical barrier to pathogens?

- A nose hairs
- B skin
- C stomach acid
- D white blood cells

6. June/2020/Paper_11/No.26

Which type of infection could be treated successfully with antibiotics?

	infection caused by			key
	bacteria	resistant bacteria	viruses	
A	✓	✓	x	✓ = yes x = no
B	✓	x	x	
C	x	✓	✓	
D	x	x	✓	

7. June/2020/Paper_12/No.17

What is a chemical barrier to pathogens?

- A nose hairs
- B skin
- C stomach acid
- D white blood cells

8. June/2020/Paper_12/No.26

Which statement about antibiotic use in humans is correct?

- A Different types of antibiotic are used to remove antibodies from the body.
- B Antibiotics are injected in childhood to prevent diseases in adults.
- C Antibiotics are used to treat diseases caused by viruses.
- D Different types of antibiotic are used because bacteria can become resistant.

9. June/2020/Paper_13/No.17

What is a chemical barrier to pathogens?

- A nose hairs
- B skin
- C stomach acid
- D white blood cells

10. June/2020/Paper_13/No.30

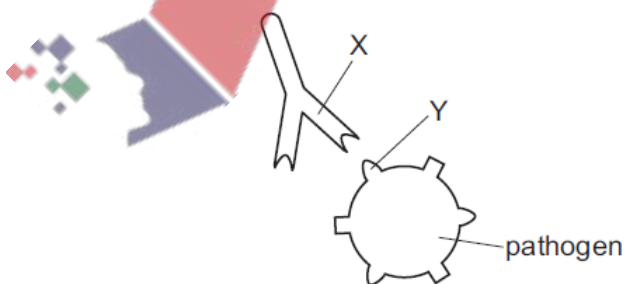
Which disease is an example of an STI?

- A cholera
- B COPD
- C HIV
- D lung cancer

11. June/2020/Paper_21/No.19

When a pathogen enters the blood, the immune system uses different mechanisms to destroy the pathogen.

The diagram shows one of these mechanisms.



Which row describes the structures involved?

	structure X	X is made by	structure Y
A	antigen	lymphocytes	antibody
B	antigen	phagocytes	antibody
C	antibody	lymphocytes	antigen
D	antibody	phagocytes	antigen

12. June/2020/Paper_21/No.27

The statements are about the use of antibiotics.

- 1 using an antibiotic to prevent infection
- 2 using an antibiotic known to kill the bacteria causing an infection
- 3 using an antibiotic only when essential
- 4 using an antibiotic to treat a viral infection

Which practices will increase the chance of the development of antibiotic resistance in bacteria?

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

13. June/2020/Paper_22/No.20

The formula C_2H_5OH represents a chemical produced during anaerobic respiration.

What is this chemical?

- A** alcohol
B glucose
C glycogen
D lactic acid

14. June/2020/Paper_22/No.19

The following are statements about immunity.

- 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

15. June/2020/Paper_23/No.19

Vaccinations can be given to gain active immunity.

Which statement about this type of vaccination is correct?

- A** The vaccination contains antibodies.
B The vaccination must contain harmful pathogens.
C The vaccination triggers antibody production in the body.
D The vaccination triggers antigen production in the body.

16. June/2020/Paper_23/No.26

Which disease is caused by a virus?

- A AIDS
- B kwashiorkor
- C cholera
- D MRSA infection

17. June/2020/Paper_43/No.5

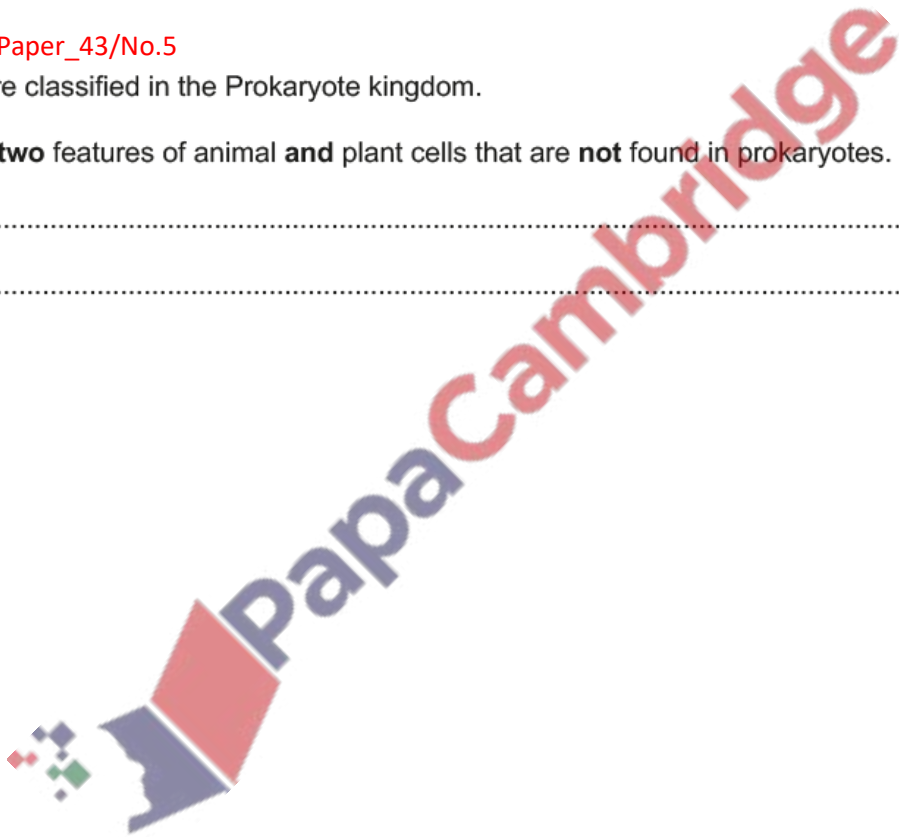
Bacteria are classified in the Prokaryote kingdom.

(a) State **two** features of animal **and** plant cells that are **not** found in prokaryotes.

1

2

[2]



(b) Methicillin-resistant *Staphylococcus aureus* (MRSA) is a type of bacterium that is resistant to some antibiotics.

Fig. 5.1 shows how a population of bacteria may develop antibiotic resistance and how the antibiotic resistance can be passed from one strain of bacterium to another.

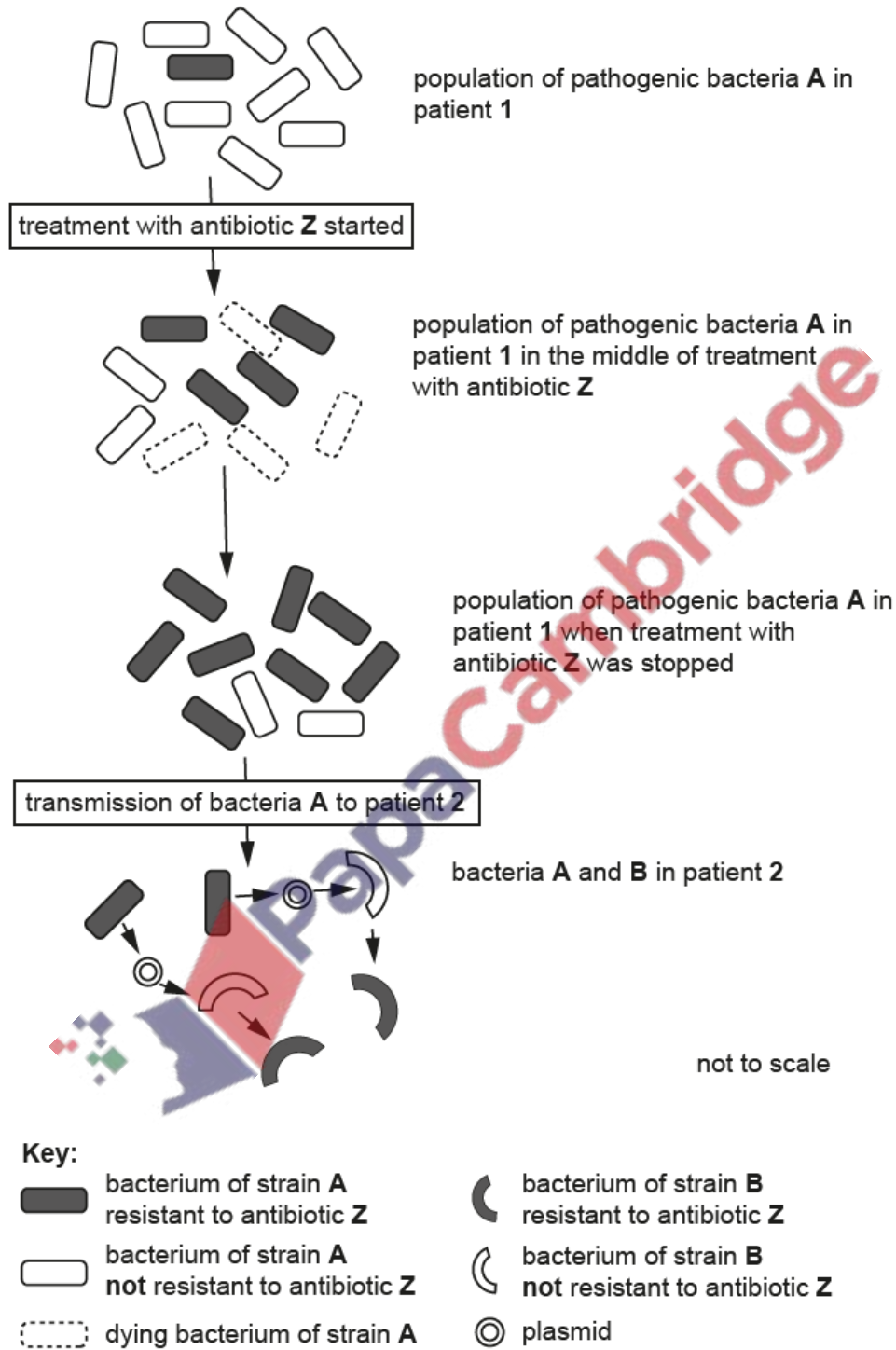


Fig. 5.1

