ENGLAND GCSE BIOLOGY AQA HIGHER · UNIT 3 · 25 QUESTIONS

# Infection and Response — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button so it can be fixed.

**1** **A thermometer is placed in hot water. What happens to the liquid inside the thermometer?**

- A it contracts
- B it expands
- C it freezes
- D it evaporates

Understand It with Pulse | Flag a mistake

**2** **Eggs can carry Salmonella bacteria. How can food poisoning from eggs be avoided?**

- A keep the eggs in the fridge for a week
- B wash the eggs in cold water
- C eat the eggs raw
- D cook the eggs thoroughly

Understand It with Pulse | Flag a mistake

3 **A peach tree flowers in spring. What do bees carry between flowers?**

- A pollen
- B water
- C leaves
- D seeds

Understand It with Pulse | Flag a mistake

4 **A brown dog has fleas. What are fleas?**

- A producers
- B prey
- C parasites
- D predators

Understand It with Pulse | Flag a mistake

5 **A school lunch tray holds a meal with bread, cheese and an apple. Which food group is the bread from?**

- A fats, for insulation
- B proteins, for growth
- C carbohydrates
- D vitamins, for health

Understand It with Pulse | Flag a mistake

6 **Red apples provide energy. Which nutrient in apples provides most energy?**

- A fibre, for digestion
- B carbohydrates
- C protein, for growth
- D fat, for insulation

Understand It with Pulse | Flag a mistake

7 **How does antibiotic resistance spread in bacteria?**

A bacteria learn to avoid antibiotics

B viruses carry resistance to bacteria

C resistant bacteria survive and reproduce

D antibiotics change the bacteria genes directly

Understand It with Pulse | Flag a mistake

8 **Which is a physical barrier against pathogens?**

A white blood cells

B antibodies

C the skin

D stomach acid

Understand It with Pulse | Flag a mistake

9 **Cases of a disease double every week. There are 50 cases now. How many cases will there be in 2 weeks?**

- A 400
- B 150
- C 200
- D 100

Understand It with Pulse | Flag a mistake

10 **Which drug was the first antibiotic?**

- A aspirin
- B penicillin
- C paracetamol
- D insulin

Understand It with Pulse | Flag a mistake

11 **In a town of 1000 people, 90 percent are vaccinated. How many people is that?**

- A 900
- B 1800
- C 950
- D 850

Understand It with Pulse | Flag a mistake

12 **What does a pregnancy test detect?**

- A the sex of the baby
- B a hormone in urine
- C bacteria in the urine
- D antibodies in the blood

Understand It with Pulse | Flag a mistake

13 **Which is a chemical defence of a plant?**

A a poison in the sap

B thorns on the stem

C bark covering the stem

D hairs on the leaves

Understand It with Pulse | Flag a mistake

14 **A person is exposed to a disease on day 1. The incubation period is 3 days. On which day do symptoms start?**

A 6

B 4

C 3

D 5

Understand It with Pulse | Flag a mistake

15 **A vaccine is given to 17 out of every 20 people in a school of 200 pupils. How many pupils receive the vaccine?**

- A 170
- B 30
- C 187
- D 17

Understand It with Pulse | Flag a mistake

16 **Why do antibiotics not work on viruses?**

- A viruses are too small to see
- B viruses live inside cells
- C viruses are not alive at all
- D viruses are too big to be killed

Understand It with Pulse | Flag a mistake

17 **How does a vaccine protect a person?**

- A memory cells respond quickly later
- B it makes the skin thicker
- C it kills all pathogens at once, straight away
- D it stops pathogens entering

Understand It with Pulse | Flag a mistake

18 **Which of these diseases is caused by a virus?**

- A malaria
- B athlete's foot
- C measles
- D salmonella food poisoning

Understand It with Pulse | Flag a mistake

19 **What happens in preclinical testing?**

A the drug is sold in shops

B the drug is tested on cells and animals

C the drug is given to patients

D the drug is tested on healthy volunteers

Understand It with Pulse | Flag a mistake

20 **Cases of a disease double every week. There are 10 cases now. How many cases will there be in 2 weeks?**

A 80

B 20

C 40

D 30

Understand It with Pulse | Flag a mistake

21 **In a town of 1000 people, 80 percent are vaccinated. How many people is that?**

- A 800
- B 1600
- C 850
- D 750

Understand It with Pulse | Flag a mistake

22 **How can monoclonal antibodies treat cancer?**

- A they carry a drug to cancer cells
- B they stop tumours from forming
- C they replace chemotherapy completely
- D they kill all the cells in the body

Understand It with Pulse | Flag a mistake

**23** **Why does a plant with a viral disease photosynthesise less?**

- A the flowers fall off first
- B the stem stops growing
- C the roots stop taking in water
- D leaves have less chlorophyll

Understand It with Pulse | Flag a mistake

**24** **A person is exposed to a disease on day 1. The incubation period is 7 days. On which day do symptoms start?**

- A 8
- B 9
- C 10
- D 7

Understand It with Pulse | Flag a mistake

25 **A vaccine is given to 19 out of every 20 people in a school of 200 pupils. How many pupils receive the vaccine?**

A 10

B 190

C 209

D 19

Understand It with Pulse | Flag a mistake

# ANSWER KEY

| | | | | | |
|---|---|---|---|---|---|
| **1.** | B | **10.** | B | **19.** | B |
| **2.** | D | **11.** | A | **20.** | C |
| **3.** | A | **12.** | B | **21.** | A |
| **4.** | C | **13.** | A | **22.** | A |
| **5.** | C | **14.** | B | **23.** | D |
| **6.** | B | **15.** | A | **24.** | A |
| **7.** | C | **16.** | B | **25.** | B |
| **8.** | C | **17.** | A | | |
| **9.** | C | **18.** | C | | |

© 2026 Brett Robbins. All Rights Reserved.