

10. Diseases and immunity

Starter Quiz · 课前小测

IGCSE Biology

Name: _____ Score: _____

1. A pathogen is:

- ☐ a microbe that causes disease
- ☐ a type of white blood cell
- ☐ a vaccine
- ☐ a harmless gut bacterium

2. Phagocytes defend the body by:

- ☐ engulfing and digesting pathogens
- ☐ making antibodies
- ☐ carrying oxygen
- ☐ clotting blood

3. Which can be pathogens? (Select all that apply.)

- ☐ bacteria
- ☐ viruses
- ☐ fungi
- ☐ red blood cells

Tick every correct option.

4. Antibodies are made by:

- ☐ lymphocytes
- ☐ red blood cells
- ☐ platelets
- ☐ phagocytes

5. A pathogen spread by coughs and sneezes travels through the:

- ☐ air
- ☐ soil only
- ☐ bones
- ☐ nerves

6. A vaccine protects you by:

- ☐ triggering antibodies and memory cells without causing the disease

- ☐ killing all bacteria in the body
- ☐ giving you the full disease
- ☐ replacing your blood

7. Memory cells let the body respond faster to a pathogen it has met before.

- ☐ True ☐ False

8. Swallowed pathogens are killed by the _____ in the stomach.

9. Antibodies recognise the markers on a pathogen called _____.

10. Which is a physical barrier to pathogens?

- ☐ the skin
- ☐ a vaccine
- ☐ an antibody
- ☐ a hormone

IGCSE Biology

1. **a microbe that causes disease**

Pathogens are disease-causing microbes.

2. **engulfing and digesting pathogens**

Phagocytes engulf pathogens; lymphocytes make antibodies.

3. **bacteria; viruses; fungi**

Bacteria, viruses, fungi and protoctists can cause disease; red blood cells cannot.

4. **lymphocytes**

Lymphocytes produce antibodies.

5. **air**

Airborne droplets carry pathogens.

6. **triggering antibodies and memory cells without causing the disease**

It safely primes the immune system.

7. **True**

This is the basis of immunity.

8. **acid**

Stomach acid destroys many pathogens in food.

9. **antigens**

Each antibody fits a specific antigen.

10. **the skin**

The skin physically blocks pathogens.