

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.