

Immunology Basics

Immunology · Answer Key · 10 Questions

1. Which type of white blood cell is primarily responsible for producing antibodies?

- A) T cell
- B) B cell**
- C) Red blood cell
- D) Platelet

2. In which organ do T lymphocytes mature?

- A) Thymus**
- B) Liver
- C) Kidney
- D) Pancreas

3. What is a foreign substance that triggers an immune response called?

- A) Hormone
- B) Enzyme
- C) Antigen**
- D) Vitamin

4. Which chemical is released by mast cells during an allergic reaction?

- A) Insulin
- B) Histamine**
- C) Hemoglobin
- D) Melatonin

5. Which form of defense is present from birth and provides non-specific protection?

- A) Adaptive immunity
- B) Innate immunity**
- C) Active immunity
- D) Passive immunity

6. What is the process where immune cells engulf and destroy pathogens called?

- A) Osmosis
- B) Phagocytosis**
- C) Photosynthesis
- D) Fermentation

7. What is the primary role of memory B cells in the body?

- A) Producing digestive enzymes
- B) Transporting oxygen
- C) Remembering past pathogens for a faster response**
- D) Filtering liquid waste

8. Which antibody class is the most abundant in human blood plasma?

- A) IgE
- B) IgD
- C) IgG**
- D) IgM

9. Immunity acquired by an infant through breast milk is classified as which type?

- A) Passive immunity**
- B) Active immunity
- C) Cell-mediated immunity
- D) Autoimmunity

10. Which proteins are released by cells in response to a viral infection to warn neighboring cells?

- A) Interferons**
- B) Estrogens
- C) Thyroid hormones
- D) Cytokinins