Contemporary Clinical Immunology and Serology 1st Edition Rittenhouse-Olson Test Bank

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Chapter 1 Introduction to Immunology

Multiple-Choice Questions

1.

Forward scatter

Which quadrant in the figure contains the smaller cell(s) with more granularity?

- a. A
- b. B
- c. C
- d. D

2. CD11c+ cells are

- a. macrophage
- b. B cells
- c. T cells
- d. dendritic cells

3. Apoptosis, also known as programmed cell death occurs when

- a. the cell receives certain signals and then sends perforins to kill neighboring cells
- b. the cell receives certain signals and digests its own DNA
- c. the cell receives certain signals and digests its own membrane
- d. none of the above

4. CD 56+, CD 16+, and CD3- are markers used to characterize-

- a. a macrophage
- b. an NK cell
 - C a dendritic cell
- c. an eosinophil

5. An antigen-specific cell is a

- a. neutrophil
- b. T or B lymphocyte
- c. macrophage
- d. NK cell

6. A phagocytic cell is a(n)

- a. platelet
- b. T or B lymphocyte
- c. macrophage
- d. NK cell

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7. When treated with IL-2, this cell becomes an LAK cell.

- a. neutrophil
- b. T or B lymphocyte
- c. macrophage
- d. NK cell

8. The first cell at the site of an infection is a(n)

- a. neutrophil
- b. T or B lymphocyte
- c. macrophage
- d. NK cell

9. The cell of the following cell types that is called a Kupfer cell when in the liver is

- a. neutrophil
- b. T or B lymphocyte
- c. macrophage
- d. NK cell

10. A pattern recognition receptor is(are)

- a. defensins and cathelicidins
- b. unmethylated DNA, ss RNA
- c. SALT
- d. toll-like receptor

11. An acute phase reactant involved in cardiac risk measurements is(are)

- a. defensins and cathelicidins
- b. unmethylated DNA, ss RNA
- c. SALT
- d. C-reactive protein

12. Antimicrobial peptides is(are)

- a. defensins and cathelicidins
- b. unmethylated DNA, ss RNA
- c. SALT
- d. C-reactive protein

13. A pathogen associated molecular pattern is(are)

- a. defensins and cathelicidins
- b. Unmethylated DNA, ss RNA
- c. SALT
- d. C-reactive protein

14. A secondary lymphoid organ is(are)

- a. defensins and cathelicidins
- b. unmethylated DNA, ss RNA
- c. SALT
- d. C-reactive protein

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15. The innate immune system uses

- PRR to recognize PAMP
- b. PAMP to recognize PRR
- c. PAMP to recognize surface mannose
- d. surface mannose to recognize lectins on the bacteria

16. CD19, 20, 21 are on these cells

- a. macrophage
- b. B cells
- c. T cells
- d. dendritic cells

17. Which of the following is involved in a humoral immune response?

- a. neutrophil
- b. B lymphocyte
- c. macrophage
- d. NK cell
- e. T cells

18. Which of the following has a polymorphic nucleus

- a. neutrophil
- b. B lymphocyte
- c. macrophage
- d. NK cell
- e. T cells

19. Which of the following cells kills tumor cells and virally infected cells, not antigen specific, uses perforins

- a. neutrophil
- b. B lymphocyte
- c. macrophage
- d. NK cell

20. The phagocytic cell that does not arrive first at the site of a chronic infection is the

- a. neutrophil
- b. B lymphocyte
- c. macrophage
- d. NK cell
- e. T cell

21. The cell of the following cells that has a specific regulatory subset is a

- a. neutrophil
- b. B lymphocyte
- c. macrophage
- d. T cell

22. Each of the 12 types of these binds a different PAMP.

- a. TLR
- b. bacterial flagellin
- c. tonsil
- d. C-reactive protein

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23. An acute phase reactant is

- a. TLR
- b. bacterial flagellin
- c. tonsil
- d. C-reactive protein

24. One of the pathogen-associated molecular pattern is

- a. TLR
- b. bacterial flagellin
- c. tonsil
- d. C-reactive protein

25. A secondary lymphoid organ is

- a TLR
- b. bacterial flagellin
- c. tonsils
- d. C-reactive protein

26. A lectin is a

- a. molecule that binds to neutrophils
- b. molecule that binds lipids
- c. molecule that binds carbohydrates
- d. a molecule that causes apoptosis

27. Which statement is correct?

- a. Serum is formed after blood is allow to clot.
- b. Serum is formed in blood after anticoagulants have been added.
- c. Plasma is formed after blood is allowed to clot.
- d. Clotting factors are no longer in plasma.

28. Which one of these does not belong?

- a. Kupfer cells
- b. histiocytes
- c. alveolar macrophages
- d. dendritic cells

29. Which cell is very active in antigen presentation?

- a. dendritic cells
- b. T cells
- c. epithelial cells
- d. LAK cells

30. The process by which macrophage and neutrophils squeeze through the intact blood vessel is

- a. opsonization
- b. diapedesis
- c. chemotaxis
- d. phagocytosis

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Answer Key

- 1. a. A
- 2. d. dendritic cells
- 3. b. the cell receives certain signals and digests its own DNA
- 4. b. an NK cell C a dendritic cell
- 5. b. T or B lymphocyte
- 6. c. macrophage
- 7. d. NK cell
- 8. a. neutrophil
- 9. c. macrophage
- 10. d. toll-like receptor
- 11. d. C-reactive protein
- 12. a. defensins and cathelicidins
- 13. b. Unmethylated DNA, ss RNA
- 14. c. SALT
- 15. a. PRR to recognize PAMP
- 16. a. macrophage
- 17. b. B lymphocyte
- 18. a. neutrophil
- 19. d. NK cell
- 20. c. macrophage
- 21. d. T cell
- 22. a. TLR
- 23. d. C-reactive protein
- 24. b. bacterial flagellin
- 25. c. tonsils

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- 26. c. molecule that binds carbohydrates
- 27. a. Serum is formed after blood is allow to clot.
- 28. d. dendritic cells
- 29. a. dendritic cells
- 30. b. diapedesis

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