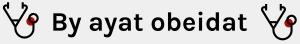


WHITE BLOOD CELLS

Questions





1. What is the normal average percentage of lymphocytes in a differential WBC count?

- a) 20%
- b) 30%
- c) 40%
- *Answer:* b) 30%



- a) Neutrophils, Lymphocytes, Monocytes, Eosinophils, Basophils
- b) Neutrophils, Lymphocytes, Monocytes, Basophils, Eosinophils
- c) Neutrophils, Lymphocytes, Eosinophils, Monocytes, Basophils
- *Answer: * a) Neutrophils, Lymphocytes, Monocytes, Eosinophils, Basophils
- 3. Which process allows neutrophils to move through capillary walls into tissues?
- a) Chemotaxis
- b) Diapedesis
- c) Aggregation



^{*}Answer:* b) Diapedesis

- 4. Neutrophils exhibit "amoeboid movement
- a) Release histamine
- b) Migrate toward chemotactic substances
- c) Form platelet plugs
- *Answer: b) Migrate toward chemotactic substances
- 5. Which WBC type releases heparin and histamine?*
 - a) Eosinophils
 - b) Basophils
 - c) Monocytes
- *Answer: b) Basophils
- 6. Eosinophils are primarily involved in:*
 - a) Fighting bacterial infections
 - b) Antiparasitic and antiallergic responses
 - c) Phagocytosing large pathogens
 - *Answer: b) Antiparasitic and antiallergic responses

- 7. Cellular immunity is mediated by:
 - a) B-lymphocytes
 - b) T-lymphocytes
 - c) Monocytes
 - *Answer: b) T-lymphocytes
- 8. Antibodies in humoral immunity are produced by:
 - a) Plasma cells derived from B-lymphocytes
 - b) Macrophages
 - c) Neutrophils
 - *Answer: a) Plasma cells derived from B-lymphocytes
- 9. Monocytes differentiate into which highly phagocytic cells?
 - a) Neutrophils
 - b) Macrophages
 - c) Increasing Basophils
 - *Answer: b) Macrophages









10. A key role of monocytes/macrophages is:

- a) Tissue repair
- b) Blood clotting
- c) Antibody production
- *Answer: a) Tissue repair

11. The first stage of hemostasis is:

- a) Platelet plug formation
- b) Vasoconstriction
- c) Blood coagulation
- *Answer: b) Vasoconstriction

12. Clot retraction involves the conversion of:

- a) Soluble fibrin to insoluble fibrin
- b) Prothrombin to thrombin
- c) Fibrinogen to fibrin
- *Answer: 8 a) Soluble fibrin to insoluble fibrin











- a) Serotonin and thromboxane A2
- b) Histamine and heparin
- c) Antibodies and cytokines
- *Answer: a) Serotonin and thromboxane A2



- a) Muscle contraction in the vessel wall
- b (b) Platelet activation
- c) Nerve impulses

*Answer: a) Muscle contraction in the vessel wall

15. Platelet adhesion occurs when platelets bind to:

- a) Collagen in the sub-endothelium
- b) Fibrinogen in plasma
- c) Red blood cells

*Answer: a) Collagen in the sub-endothelium





16. The correct sequence of platelet plug formation is:

- a) Adhesion → Activation → Aggregation
- b) Activation → Aggregation → Adhesion
- c) Aggregation → Adhesion → Activation

*Answer: a) Adhesion → Activation → Aggregation

17. Factor II in coagulation is also known as:

- a) Prothrombin
- b) Fibrinogen
- c) Calcium

*Answer: a) Prothrombin





















18. Which factor is termed "Antihemophilic Factor A"?

- a) Factor VIII
- b) Factor IX
- c) Factor X
- *Answer: a) Factor VIII

19. The intrinsic pathway of coagulation requires:

- a) Tissue factor (Factor III)
- b) Calcium ions (Ca²⁺)
- c) Vitamin K
- *Answer: b) Calcium ions (Ca²⁺)

20. Soluble fibrin threads become insoluble during:

- a) Clot retraction
- b) Platelet activation
- c) Vasoconstriction
- *Answer: a) Clot retraction

