

# Histology – Blood & Lymphatic System (JU Style)

## Blood Histology (50 Questions)

- What type of tissue is blood?  
*Connective tissue*
- The fluid part of blood is called?  
*Plasma*
- Which of the following is NOT a formed element of blood?  
*Albumin*
- Shape of RBC?  
*Biconcave*
- Lifespan of RBC?  
*120 days*
- Red color of blood due to?  
*Iron in hemoglobin*
- Which blood cell lacks a nucleus?  
*Erythrocyte (RBC)*
- Platelets are fragments of?  
*Megakaryocyte*
- RBC diameter?  
*7.5  $\mu$ m*
- Reticulocytes are?  
*Immature RBCs*
- Most abundant WBC?  
*Neutrophil*
- Bilobed nucleus, red granules?  
*Eosinophil*
- Releases histamine & heparin?  
*Basophil*
- Lymphocytes classified as?  
*Agranulocytes*
- Monocytes become?  
*Macrophages*
- Kidney-shaped nucleus?  
*Monocyte*
- Blood smear stain?  
*Wright's or Giemsa stain*
- Function of neutrophils?

*Phagocytosis of bacteria*

- Multilobed nucleus?

*Neutrophil*

- Basophils correspond to?

*Mast cells*

- Osmotic pressure protein?

*Albumin*

- Fibrinogen responsible for?

*Clotting*

- Old RBCs destroyed in?

*Spleen*

- Hematocrit measures?

*Percentage of RBCs in blood*

- Eosinophils rise in?

*Allergy or parasitic infection*

- Largest WBC?

*Monocyte*

- Viral infection increases?

*Lymphocytes*

- Platelets function in?

*Blood clotting*

- Lymphocyte nucleus shape?

*Large and round*

- Plasma without fibrinogen?

*Serum*

- Site of hematopoiesis?

*Bone marrow*

- Active marrow type?

*Red marrow*

- Yellow marrow contains?

*Fat*

- Violet granules cell?

*Basophil*

- Platelets other name?

*Thrombocytes*

- Erythropoiesis needs?

*Vitamin B12*

- Segmented nuclei WBCs?

*Polymorphonuclear leukocytes*

- Allergic reaction initiator?  
*Basophil*
- Plasma function?  
*Transport of nutrients and hormones*
- RBC count?  
*≈5 million/ $\mu$ L*
- WBC count?  
*5,000–10,000/ $\mu$ L*
- Platelet count?  
*150,000–400,000/ $\mu$ L*
- Smallest formed element?  
*Platelet*
- Hyperchromic RBCs?  
*Contain more hemoglobin*
- Hypochromic RBCs?  
*Contain less hemoglobin*
- Macrocytic anemia?  
*Large RBCs*
- Microcytic anemia?  
*Small RBCs*
- Poikilocytosis?  
*Abnormal RBC shapes*
- Leukocytosis?  
*Increased WBC count*
- Leukopenia?  
*Decreased WBC count*

## Lymphatic Histology (50 Questions)

- Lymphoid tissue type?  
*Reticular connective tissue*
- Primary lymphoid organs?  
*Bone marrow & Thymus*
- Secondary lymphoid organs?  
*Lymph nodes, Spleen, Tonsils*
- Function of lymph node?  
*Filter lymph*
- Outer region of lymph node?  
*Cortex*
- Cortex contains?  
*B-cell follicles*

- Medulla contains?  
*Plasma cells & macrophages*
- Structural unit of node?  
*Lymphatic nodule*
- Afferent lymphatics enter?  
*Convex surface*
- Efferent lymphatic exits at?  
*Hilum*
- Thymus location?  
*Mediastinum*
- Thymus function?  
*Maturation of T lymphocytes*
- Thymus medulla feature?  
*Hassall's corpuscles*
- Spleen filters?  
*Blood*
- White pulp rich in?  
*Lymphocytes*
- Red pulp function?  
*Destruction of old RBCs*
- Splenic artery enters at?  
*Hilum*
- Tonsils belong to?  
*Secondary lymphoid organs*
- Peyer's patches found in?  
*Ileum of small intestine*
- Peyer's patch function?  
*Immune defense in gut*
- Lymphatic vessels transport?  
*Lymph*
- Lymph contains?  
*WBCs (lymphocytes)*
- Thymus has no?  
*Lymphatic nodules*
- Largest lymphoid organ?  
*Spleen*
- Germinal center contains?  
*Activated B cells*
- Capsule of lymph node made of?

*Dense connective tissue*

- Lymph sinus function?  
*Filter lymph*
- Thymus active in?  
*Childhood*
- Thymus atrophy after?  
*Puberty*
- Lymphatic capillaries lack?  
*Basement membrane*
- Spleen capsule contains?  
*Smooth muscle and collagen*
- Macrophages in spleen do?  
*Phagocytosis of aged RBCs*
- White pulp surrounds?  
*Central arteries*
- Lymph enters via?  
*Afferent vessels*
- Lymph exits via?  
*Efferent vessels*
- Medullary cords contain?  
*Plasma cells*
- Thymic cortex stains?  
*Dark (dense lymphocytes)*
- Thymic medulla stains?  
*Light (fewer lymphocytes)*
- Splenic cords called?  
*Cords of Billroth*
- Lymphatic system drains into?  
*Venous circulation*
- Thoracic duct drains?  
*Most of the body*
- Right lymphatic duct drains?  
*Right upper quadrant*
- Thymus lacks?  
*B cells*
- Lymph node follicles rich in?  
*B cells*
- Paracortex rich in?  
*T cells*

- Tonsil function?

*Trap pathogens entering mouth or nose*

- Lymphoid tissue made of?

*Reticular fibers*

- Spleen function?

*Blood reservoir*

- Lymphocytes function?

*Specific immune defense*

- Organ with red & white pulp?

*Spleen*