

1. Difference between medium sized arteries and medium sized veins ,

Which one is correct ?

- a. Tunica media is thick and folded in the medium sized veins and not

In medium sized arteries

- b. The flow of blood is slow in medium sized artery than in medium Sized vein
- c. Tunica adventitia is thin in medium sized vein than in the medium Sized artery
- c. Valves are found in medium sized vein and not in medium sized Artery
- d. @The tunica media is thick in medium sized vein than in medium Sized artery

2-Which of the following statements is true ?

- ..a. Endothelial cells of blood sinusoids are separated by intercellular Space
- b. Arteriovenous anastomosis is direct connection between arteries and veins
- c. Pericytes represents the tunica media of arterioles
- e. Fenestrated capillaries are found in bone marrow for passage of Blood elements into circulation
- f. Large arteries are called muscular arteries

4-Insufficiency of secretion of which cells cause diabetes?

a. Islets of Langerhans

..b. Beta cells

b. Alpha cells

c. Delta cella

d. F- cells

5-Regard to the thymus dependent zone of lymph node?

a. Is present in the outer cortex

b. It contains B-lymphocytes

c. Its post capillary venules are lined with simple squamous epithelium

..d. Contains mature T-lymphocytes

e. Present at the hilum of the node

6-The respiratory epithelium is ?

a. Non-keratinized stratified epithelium

b. Simple cuboidal epithelium





c. Simple columnar

..d. Pseudostratified columnar ciliated with goblet cells

d. Pseudostratified columnar with chemoreceptors

7-The lymphatic nodules of the lymphatic nodes are present at ?

...a. Outer cortex

b. Deep cortex

c. Hilum

e. Paracortical zone

f. Medulla

8-The lymphatic vessels have all of the following except ?

...a. Thick wall and narrow lumen

b. Larger diameter than venules

c. Their lymph drains in the right and left subclavian vein

d. Bicuspid valves which give them beaded appearance



f. Tunica media contains few smooth muscle

9-Within the germinal centers of the lymph node the prominent cell type

Is ?

a. Mast cells

b. T- lymphocytes

..c. B-lymphocytes

c. Epithelial reticular cells

d. Macrophages

10-Which one of the following is incorrectly matched ?

a. Continuous capillaries // skeletal muscles

b. Fenestrated capillaries // small intestine

c. Somatic capillaries // skin

e. Sinusoidal capillaries //spleen

..e. Visceral capillaries // liver

11-Regarding the lymphatic capillaries all of the following is true except ?

- a. Begin with blind end
- b. Are larger and more permeable than blood capillaries
- c. Have gaps between endothelial cells
- c. Have interrupted basal lamina
- d. @The basement membrane splits to enclose the Pericytes

12-Somatic capillaries are characterized by all of the following except ?

- a. The endothelial cells have no fenestrates
- ...b. The basal lamina is discontinuous
- b. The type of capillaries found in the CNS
- c. Has the lowest permeability
- d. Pinocytotic vesicles seen in the endothelial cells to facilitate the

Transcytosis of molecules

13-What is the unique about the palatine tonsils compared with other

Lymphoid organs ?

- a. Lack germinal centers
- b. Don't have medulla region
- c. No lymphatic nodules

..d. Surface covered by epithelium

- d. Ducts of mucus glands open at the surface to sweep away the

Microorganisms

14-Which type of epithelium lines the esophagus ?

- a. Stratified columnar epithelium
- b. Simple squamous epithelium
- c. Keratinized stratified squamous epithelium

..d. Non-Keratinized stratified squamous epithelium

- d. Simple columnar epithelium

15-All of the following are characteristics of Clara cells except ?



...a. Found in the lining epithelium of the respiratory bronchi

b. Can metabolize airborne toxins

c. Play role in regenerating the bronchiolar epithelium

e. Secrete surfactant like material

f. Non-ciliated cells

16-which structure most likely contain longitudinal smooth muscle in its

Tunica adventitia ?

a. Aorta b. Thoracic duct

... c. Vena cava d. Umbilical vein e.

Coronary artery

17-Where T-lymphocytes gain their immunocompetence ?

a. Thyroid

b. Bone marrow

c. Spleen



d. Lymph node

...e. Thymus

18-The tunica media of medium sized arteries is formed mainly of ?

a. Elastic fibers

b. Collagen fibers

...c. Smooth muscle fibers

c. Reticular fibers

d. Sharpey's fibers

19-Which one of the following statements is correct ?

a. The wall of basilar artery has prominent external elastic lamina

b. Glomus is feature of blood sinusoid

c. Endothelial cells of somatic capillaries pores that covered by

Diaphragm

..d. Tunica media of aorta is mainly formed of fenestrated elastic lamina

d. Tunica adventitia of umbilical artery is formed of collagenous C.T



20-Which of the following statements is correct regarding the splenic

Sinusoid ?

a. Pericytes surrounds the wall of these sinusoids

...b. Stave cells are elongated endothelial cells with large intercellular Gaps

c. Trabecular arteries open into the medullary cords by open and closed routes

d. The basement membrane of their lining cells is continuous

e. They are parts of white pulp

21-Regarding to the blood vessels , which one is correct ?

a. The contraction of smooth muscle cells in the wall of veins restricts the venous return to the heart

b. The tunica media of the vein is thicker than the tunica media of the arteries

c. The external elastic lamina limits the tunica intima from tunica media

d. @ Smooth muscle cells in the wall of medium sized arteries regulate the blood supply to their target tissue

e. Vasa vasorum nourish the wall of the arterioles

22-One of the following is not a type of blood capillaries ?

a. Sinusoidal capillaries



- b. Fenestrated capillaries
- ...c. Lymphatic capillaries
- d. Somatic capillaries
- e. Continuous capillaries

23-The part of airway that is located at the transition between the conducting and respiratory portions is ?

- a. Bronchioles
- b. Secondary bronchi
- c. Alveolar duct
-d. Respiratory bronchioles

Weirdo...

24-Regarding to the pancreas which one of the following is incorrectly matched ?

- a. Beta cells // 70% of islet cells and secretes insulin
- ...b. Delta cells // secretes pancreatic polypeptide
- c. Alpha cells// 20% cells and secretes glucagon
- d. Islets of langerhan // numerous at tail of pancreas
- e. Pancreatic acini // exocrine pancreas

25-Auerbachs plexus is found in ?

- a. The adventitia
-b. The muscularis externa
- c. The submucosa
- d. The mucosa
- e. The muscularis mucosa

26-Tunica media of capillaries is formed of ?

- ...a. Pericytes
- b. Elastic fibers
- c. Smooth muscle fibers
- d. Fibroblasts
- e. Collagenous fibers

27-Which of the following are typically necessary to stimulate Blymphocytes to divide and differentiae ?

- a. Plasma cells // antibody
- b. Cytokine // immunoglobulin
- c. Memory T-lymphocytes // cytokines
- ...d. Helper T-lymphocytes // antigen
- e. Cytotoxic T-lymphocytes

28-Which of the following statements is correct ?

- a. Blood capillaries begin with blind end
- b. Cortical lymphatic sinuses of lymph nodes are lined with fibroblasts and mast cells
- ...c. The blood thymic barrier is the wall that separates the developing Tlymphocytes in the cortex
- d. In the cell mediated immunity activated B-lymphocytes change into plasma cells that produce antibodies

29-The most numerous cell type found in the red pulp of the spleen are ?

- a. Reticular cells
- ..b. Macrophages
- c. T lymphocytes

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39) How can neutrophils and monocytes reach an infection site from the blood stream?

Select one:

- a. The blood vessels rupture at a site of infection
- ..b. Neutrophils and monocytes are amoeboid and can pass through capillary walls
- c. They are small and diffuse across membranes just like food and gas molecules.
- d. They move upstream in the lymph system
- e. T-lymphocyte differentiates into neutrophils and monocytes when it arrives at the site of infection

*36) Each of the following statements concerning B cells is true EXCEPT?

Select one:

- a. They can differentiate into plasma cells
- b. They are derived from bone marrow
- c. They contain non specific granules
- ...d. They kill virus-infected cells.
- e. They are responsible for humeral immune response

35) Which of the following is NOT a term used for a neutrophil?

Select one:

- a. Polymorphonuclear
- b. Neutrophils
- c. Microphages
- d. Pus cell
- ...e. Mast cell of the blood

31) On examining a blood film, the cell in which the cytoplasmic granules are obscuring the nucleus

Is-----?

Select one:

- a. The monocyte.
- b. The large sized lymphocyte.
- c. The eosinophil.
- ..d. The basophil.
- f. Neutrophils

29) The blood picture of a patient shows a total leucocytic count 17,000/ mm³ and Lymphocytes 20

% this probably goes with the diagnosis of -----?

Select one:

- a. Parasitic infection
- ...b. Acute bacterial infection
- c. Chronic infection
- d. Malaria
- e. Bronchial asthma

*Strange,,21) in a four years old child, his myeloid tissue comprises?

Select one:

- a. Yellow bone marrow in all bones EXCEPT the proximal epiphyses of long bones.
- b. Red bone marrow in the flat bones and yellow marrow in the rest of his bones.

- c. Red bone marrow in the flat and long bones.
- d. Red bone marrow in flat bone only
- e. Yellow bone marrow the distal end of long bones.

19) it is possible to identify the sex of a person by examining his blood film. This is by the Observation of?

Select one:

- a. The surface antigens on the RBCs.
- b. Barr's body attached to the nuclear chromatin of lymphocytes.
- ...c. Barr's body attached to the nuclear chromatin of polymorphonuclear leucocytes.
- d. CD4 antigen on the surface of leucocytes.
- e. MHC antigen

15) Which connective tissue cell is derived from B lymphocytes?

Select one:

- a. Fibroblast
- b. Macrophages
- ..c. Plasma cell
- d. Mast cell
- e. Alveolar macrophages

13) The discoid shape of the blood platelets is preserved by-----?

Select one:

- a. Actin and myosin in the hyalomere
- b. Subplasmalemmal protein complex
- ...c. Microtubules in the hyalomere
- d. Dense tubular system in the hyalomere
- e. Open canalicular system

10) The blood picture of a young male patient showed the following values: RBCs count

5x 10⁶ /mm³, total WBCs count 6000/ mm³, platelet count 100,000/ mm³. Accordingly, the Comment on this blood picture would be?

Select one:

- a. Acase of anemia.
- b. Acase of leucocytosis.
- ..c. A case of thrombocytopenia.
- d. Acase of thrombocytosis.
- e. Acase of leucopenia.



*7) The antigen for cluster of differentiation present in ?

Select one:

- ...a. Different types of lymphocytes
- b. Granular leucocytes
- c. Glycocalyx of platelets
- d. Glycocalyx of RBCs
- e. Monocytes and macrophages

3) The leucocyte with the longest life spanis?

Select one:

- a. Plasma cells
- ..b. Memory cells
- c. Lymphocytes
- d. Macrophages
- e. Cytotoxic T- cells

Reticulocytosis refers to-----?

Select one:

- a. An increase in the number of reticular cells in the bone marrow.
- b. A drop in the reticulocyte count of a blood film below 1%.
- ..c. A rise in the reticulocyte count of a blood film more than 1%.



- d. A rise in the reticulocyte count of a blood film more than 10 %.
- e. A rise in the reticular cell count in connective tissue

Origin of all blood cells :

Bone marrow

-Barr body is found in:

Neutrophils

-Not true cell?

Platelet

-Which type of these found in blood (normally) in big amount :

Neutrophils

Which of these are considered multilobulated ?

Neutrophils and eosinophils

-Asthmatic reaction determines increase in :

Eosinophils

Immature RBCs with a basophilic cytoplasm are called?

Reticulocytes

-Which of the following is TRUE about granulomere in platelet?

Contain ribosomes

-The granule in Eosinophils in E.M ?

Granule with crystalloid dense shape

-Which of the following WBCs has specific granules that have low affinity to dyes and can kill bacteria?

Neutrophils

-when examining the blood film?

Eosinophil

-A clinical implication of MHC is?

Tissue transplantation An asthmatic patient would have an increased number of what type of cells

-Which of these is stained by metachromasia and contains granules ?

Mast cells

Sex can be determined by examining a blood film from?

Barr body near the nucleus of microphage

-The mast cell of the blood is?

Basophile

-Macrophage which is found in tissue is called?

Histiocytes

-The best matching from following is?

Paracortex >>T-lymphocyte



-On of the following is correctly matched?

Epithelial reticular cell>>from Hassall's corpuscles

-On of the following is true about Type 1 pneumocyte?

Flat squamous cell and participate in gas exchange

-On of the following is truly matched?

Basilar artery >>prominent IEL

-One of the following is true about foam cell?

Atherosclerosis

-On of the following is truly matched?

Pericytes>>>controls blood flow

-One of the following sentence is true?

Metarterioles>>contain precapillary sphincter

-On of the is correctly matched?

Gut associated lymphatic tissue>>submucosa

-The most common type of leukocyte?

Neutrophile

Which of these forms antibodies?

B lymphocytes

