

HLS – MIDTERM EXAM

DOCTOR 2019

Q1. Why 2,3 BPG is low in fetal tissues?

Ans: Accelerate conversion to subsequent products

Q2. Absolute polycythemia can be caused by:

A.Diarrhea

B.Diuretic drugs

C.Vomitting

D.Carcinoma in renal cells

Ans: D

Q3. When do we have massive reticulocytosis?

Ans: sudden cut in varices

Q4. One of these doesn't change between genders?

Ans: MCV

Q5. One characteristic has least value in differentiation between spleen and lymph nodes

Ans: the presence of small cells with dark stained nucleus

Q6. All of the following cells can be seen in the cortex of thymus except:

A. Macrophages

B. Dendritic cells

C. reticular epithelial cells

D. Double positive T cells

E. Double negative T cells

Answer: B

Q7. which of the following is an adaptive mechanism in IDA?

A. Increased erythropoietin

B. Diminished hepcidin

Ans: B

Q8. Defasirox is preferred over deferoxamine because :

Answer: it's taken orally

Q9. Related with vitamin B12 deficiency:

Answer: diphylobothrium latum

Q10. Which of the following describes MWC model best:

Answer: equilibrium changes upon oxygen binding

Q11. can't be found in embryo?

Answer: HB A2

Q12. which of the following blood disorders doesn't cause pancytopenia?

- A)cooleys B)complicated sickle cell
C)megaloblastic D)myeldysplastic E) PNH

Answer: A

Q13. Not strictly a function of the blood?

- A. Maintains homeostasis
- B. Transports hormones and vitamins
- C. Plays a role in hemostasis
- D. Carrying oxygen and CO₂
- E. defence against microbes and toxins

Answer: A

Q14. not true about HbE ?

Answer: mutation at 6 position

Q15. not a definite effect of vitamin b12 deficiency?

- A) pernicious anemia
- B) megaloblastic anemia
- C) sterility
- D) neuropathy
- E) macrocytic hypochromic

Answer: E

Q16. cell with the same size of erythrocyte and blue cytoplasm with large nucleus?

Answer: lymphocyte

Q17. Which one of the following is a correct pair?

Answer: Basophil / Histamine

Q18. Correct sequence of blood cells producing sites:

Answer: Yolk sac -> Liver -> Bone marrow

Q19. all of the following are functions of cortical TEC except:

Answer: Expression of special proteins

Q20. Correct pair:

Answer: methyldopa / spherocytosis

Q21. In parasitic infection which of the following increases:

Answer: Cells with acidophilic granular bilobular nucleus

Q22. Which of the following RBCs are macrocytic and normochromic?

Answer: mcv=115, mchc=33

Q23. Which of the following isn't affected by CO₂ on hemoglobin?

Answer: 2,3 BPG

Q24. Hb H is caused by: (BIOCHEM)

Answer: deletion of 3 genes

Q25. Hb Barts is caused by: (PATHO)

Answer: deletion of 3 genes

Q26. What happens in IDA?

Answer: Platelets ↑ + TIBC ↑

Q27. Which statement is wrong about granulopoiesis?

Answer: Precursors have lobulated nucleus

Q28. Wrong statement:

Answer: Neutrophils circulate for days in blood after maturation

Q.29 Choose the wrong statements:

A. Lowest erythropoiesis occurs in pelvis and vertebrae
&

B. All blood cells are formed at the same time in the fetus during the first 3 months

Answer: A&B (This question was deleted)

Q30. Which of the following statements regarding oncotic pressure is incorrect:

- A. Also called colloidal osmotic pressure
- B. Accounts for a major part of the total osmotic pressure
- C. Regulates fluid movement between tissue and capillaries
- D. Mainly caused by the plasma protein Albumin
- E. A second function of the protein albumin is to transport products, such as fatty acids, hormones, drugs, etc..

Answer: B

Q31. Mediterranean G6pd isn't manifested by:

- A. unstable enzyme
- B. large deletions

Answer: A+B (DELETED)

Q32. Choose the true statement about hemoglobin:

- a. hemoglobin saturation curve is dependent on PO₂ and hemoglobin concentration
- b. O₂ content is dependent only on PO₂ and independent on Hemoglobin concentration
- c. hemoglobin saturation curve is independent on hemoglobin concentration

Answer: C

Q33. Choose the wrong statement:

Answer: Granulocytes have irregular shape in blood, and a spherical shape in connective tissue

Q34. Which of the following shifts HB saturation curve to the left?

- A. 2.3 BPG ↑
- B. CO₂ ↑
- C. 2.3 BPG ↓
- D. Temperature ↑

Answer: C

Q35. Which of the following isn't true about lymphnodes:

Answer: post capillary venules are located in the outer cortex

Q36. Choose the wrong statement:

- A. All iron is absorbed in the duodenum
- B. Men have lower iron than women

Answer: B

Q37. Activated B lymphocytes in spleen are located in:

Answer: Malpighian corpuscles

Q38. Choose the wrong statement:

Answer: Erythrocyte contains granules

Q39. Choose the wrong statement about spleen:

Answer: it contains post capillary venules

Q40. What can be found inside the red bone marrow?

Answer: Hematopoietic stem cells + sinusoidal capillaries + reticular tissue

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