Hematology in Practice 3rd edition Ciesla Test Bank

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Chapter 2. From Hematopoiesis to the Complete Blood Count

Multiple Choice

1. What is the average M:E ratio for normal adult bone marrow?
A. 1:3
B. 4:1
C. 1:4
D. 6:1

ANS: B
OBJ: 2.6

2. The key organs involved in extramedullary hematopoiesis include the:
A. Kidney and thymus
B. Lymph nodes and heart
C. Liver and spleen
D. Kidney and liver

ANS: C
OBJ: 2.5

3. Which of these assays is the best test to assess the bone marrow's response to anemic stress?
A. Hemoglobin value
B. MCV value
C. Reticulocyte count
D. Hematocrit

ANS: C
OBJ: 2.12

4. All of the following splenic functions are related to hematopoiesis, *except*:
A. Production of opsonizing antibodies
B. Production of WBCS, if necessary
C. Filtering out of old or deformed cells
D. Storage of platelets and granulocytes

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ANS: A
OBJ: 2.4

5. Which of the following is a primary site for hematopoiesis in a fetus of 4 to 5 months' gestation?
A. Yolk sac
B. Spleen
C. Distal long bones
D. Axial skeleton

ANS: B
OBJ: 2.2

6. A patient with the following values—RBC = 4.01×10^{12}/L, Hgb = 12.5 g/dL, and Hct = 37.2%—will most likely have which of the following RBC indices?
A. MCV = 92.8 fL, MCH = 31.2 pg, MCHC = 33.6%
B. MCV = 92.8 fL, MCH = 33.6 pg, MCHC = 31.2%
C. MCV = 107.8 fL, MCH = 32.1 pg, MCHC = 33.6%
D. MCV = 132.2 fL, MCH = 32.1 pg, MCHC = 33.5%

ANS: A
OBJ: 2.9

7. The hormone responsible for red blood cell development in the bone marrow is:
A. Thyroxin
B. Insulin
C. Leukopoietin
D. Erythropoietin

ANS: D
OBJ: 2.1

8. Which of the following sites is the most preferable for bone marrow aspiration and biopsy in adults?
A. Sternum
B. Iliac crest
C. Fibula

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D. Vertebra

ANS: B
OBJ: 2.7

9. A patient's hemoglobin is 12.3 g/dL. On the peripheral smear, the red cells appear normochromic and normocytic. The hematocrit value that correlates with these data is:
A. 34%
B. 37%
C. 40%
D. 43%

ANS: B
OBJ: 2.10

10. A Wright-stained smear of a patient's bone marrow would effectively reveal all the following cells *except*:
A. Iron-containing cells
B. RBC precursor cells
C. WBC precursor cells
D. Mature WBCs

ANS: A
OBJ: 2.7

11. Erythropoietin is produced by the:
A. Kidneys
B. Liver
C. Spleen
D. Thymus gland

ANS: A
OBJ: 2.1

12. Bone marrow aspiration is usually required in conditions of:
A. Anemia
B. Hypoxia
C. Leukemia

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D. Hepatosplenomegaly

ANS: C
OBJ: 2.7

13. Opsonizing antibodies produced by the spleen serve to:
A. Strip the capsule from bacterial pathogens
B. Recycle erythrocyte byproducts
C. Aid in extramedullary hematopoiesis
D. Fight viral infection

ANS: A
OBJ: 2.4

14. The spleen harbors _____ of the circulatory platelet mass.
A. one-quarter
B. one-third
C. one-half
D. three-quarters

ANS: B
OBJ: 2.4

15. Mature red blood cells leave the bone marrow and enter the circulation via the:
A. Reticuloendothelial system
B. Osteoclasts
C. Spleen
D. Bone marrow sinuses

ANS: D
OBJ: 2.1

16. Which of the following is a site of extramedullary hematopoiesis in an adult?
A. Spleen
B. Liver
C. Iliac crest
D. Both A and B

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ANS: D
OBJ: 2.5

17. The _____ is one of the most stable parameters in a CBC.
A. MCV
B. Hct
C. MCHC
D. MCH

ANS: A
OBJ: 2.10

18. The CBC parameter that gives insight into the amount of anisocytosis present in a specimen is:
A. RDW
B. MCHC
C. MCV
D. Hgb

ANS: A
OBJ: 2.8

True/False

19. The CFU-GEMM is a multipotential stem cell, capable of differentiating into a lymphoid or nonlymphoid precursor committed cell.

ANS: False
OBJ: 2.3

20. Patients with moderate anemias (7 to 10 g/dL) may be asymptomatic.

ANS: True
OBJ: 2.10

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