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- /test-bank-clinical-hematology-বৈশ্ব def an dental s-of-hemostasis-5e-harmening
- 1. Under appropriate stimulation the mature lymphocytes of the peripheral lymphoid organs undergo
- A) Antigen-dependent effect on cell proliferation
- B) Kinin or antibody production
- C) Antibody production only
- D) A and B
- E) All of the above
- 2. Which of the following nondividing cells comprise the granulocytic maturation storage pool in the bone marrow?
- A) Segmented neutrophils
- B) Bands
- C) Metamyelocytes
- D) All of the above
- E) None of the above
- 3. Which blood cell aids hematopoiesis by the direct transfer of iron to erythroid precursors?
- A) Monocyte
- B) Macrophage
- C) Erythrocyte
- D) Lymphocyte
- E) None of the above
- 4. At what age do fat cells begin to increase in the bone marrow?
- A) 10 years
- B) 6 months
- C) 4 years
- D) 2 years
- E) None of the above
- 5. The average life span of a circulating neutrophil is:
- A) 6 to 10 hours
- B) 6 to 10 days
- C) 1 to 3 hours
- D) 1 to 3 days
- E) 24 hours
- 6. What is the main function of the bone marrow?
- A) To provide oxygenated cells to the tissues
- B) Self-renewal of stromal cells
- C) To maintain a steady supply of mature hematopoietic cells to circulation
- D) To regulate iron storage and transfer
- E) None of the above

- 7. What is the site of erythropoietin production?
- A) Spleen
- B) Kidney
- C) Liver
- D) Bone marrow
- E) None of the above
- 8. One-third of all circulating platelets are sequestered in which organ?
- A) Bone marrow
- B) Lymph nodes
- C) Spleen
- D) Thymus
- E) Liver
- 9. The most appropriate site for a successful bone marrow aspiration in an adult patient would be:
- A) Calvariae
- B) Scapula
- C) Iliac crest
- D) Long bones
- E) None of the above
- 10. Which would be the appropriate site for marrow studies in a young child?
- A) Upper tibial bone
- B) Lower tibial bone
- C) Iliac crest
- D) Sternum
- E) None of the above
- 11. Why is a clotted marrow specimen unacceptable for hematologic smears?
- A) Cells would not stain.
- B) Fibrin threads would impede spreading.
- C) Fluid would be discolored.
- D) All of the above
- E) None of the above
- 12. Hematogones are thought to be committed progenitor cells of what lineage?
- A) Granulocytic
- B) Platelets
- C) Erythrocytic
- D) Monocytic
- E) Lymphoid

- 13. Which cells have the two unique biologic characteristics of self-renewal and multilineage differentiation?
- A) Pronormoblasts
- B) Stem cells
- C) Myeloblasts
- D) Lymphoblast
- E) Eosinophil
- 14. In adults, fat cells average about what percentage of the total volume in the vertebrae and flat bones of the pelvis?
- A) 20%
- B) 80%
- C) 50%
- D) 10%
- E) 90%
- 15. Under which magnification should bone marrow initially be examined?
- A) ×40
- B) ×4
- C) ×10
- D) ×100
- E) None of the above
- 16. Why is the bone biopsy the most reliable assessment of cellularity?
- A) A large amount of tissue is evaluated.
- B) A small amount of tissue is evaluated.
- C) It offers a more sterile procedure.
- D) Marrow iron can be demonstrated with appropriate stain.
- E) None of the above
- 17. How many nucleated cells must be classified in a bone marrow differential count?
- A) 50–100
- B) 100-500
- C) 500-1000
- D) >1000
- E) None of the above
- 18. The hematopoietic system consists of which of the following?
- A) Bone marrow
- B) Lymph node
- C) Spleen
- D) Liver
- E) All of the above

- 19. The myeloid-to-erythroid ratio represents:
- A) The ratio of granulocytic and their precursors to nucleated erythrocytes and their precursors
- B) The ratio of myeloid to non-nucleated erythroid cells
- C) The ratio of myeloid to eosinophilic cells
- D) The ratio of monocytoid to erythroid cells
- E) None of the above
- 20. In a normal adult hematopoiesis is observed primarily in which location?
- A) Liver
- B) Spleen
- C) Yolk sac
- D) Bone marrow
- E) Lymph nodes
- 21. The normal myeloid-to-erythroid ratio in a bone marrow aspirate from a normal adult is approximately:
- A) 1:1
- B) 2:1
- C) 4:1
- D) 6:1
- E) None of the above
- 22. The presence of megakaryocytes clusters and promegakaryocytes in every field of a bone marrow differential is indicative of:
- A) Megakaryocytic hypoplasia
- B) Thrombocytopenia
- C) Megakaryocytic hyperplasia
- D) Christmas disease
- E) None of the above
- 23. An increase in erythroid cellularity without disruption of the normal myeloid-to-erythroid ratio is termed:
- A) Erythrocytic hypoplasia
- B) Erythrocytic hyperplasia
- C) Granulocytic hyperplasia
- D) Granulocytic hypoplasia
- E) None of the above
- 24. How is iron stored in the bone marrow?
- A) Hemosiderin
- B) Transferrin
- C) Ferritin
- D) Erythropoietin
- E) None of the above

- 25. On Wright's stain hemosiderin will stain as:
- A) Brownish-blue
- B) Golden-yellow
- C) Reddish-orange
- D) Purple
- E) None of the above
- 26. Which of the following granulocytic cells are included in the proliferating pool of the bone marrow?
- A) Myeloblasts
- B) Promyelocytes
- C) Myelocytes
- D) All of the above
- E) None of the above
- 27. The EDTA chelation method is used for iron studies in bone biopsy. What purpose does it serve?
- A) Binds hemosiderin
- B) Binds magnesium
- C) Binds calcium
- D) Binds ferritin
- E) None of the above
- 28. Marrow erythroblasts containing bright-blue iron specks when stained are called:
- A) Sideroblasts
- B) Siderocytes
- C) Histiocytes
- D) Erythrocytes
- E) None of the above
- 29. What bone marrow interpretation would be assessed to a complete count that showed neutrophilia with an increase in bone marrow cellularity, and increased myeloid-to-erythroid ratio?
- A) Granulocytic hypoplasia
- B) Marrow hypoplasia
- C) Granulocytic hyperplasia
- D) Marrow hyperplasia
- E) None of the above

Answer Key

- 1. C
- 2. D
- 3. B
- 4. C
- 5. A
- 6. C
- 7. B
- 8. C
- 9. C
- 10. A
- 11. B
- 12. E
- 13. B
- 14. C
- 15. C
- 16. A
- 17. C
- 18. E
- 19. A
- 20. D
- 21. C
- 22. C
- 23. B
- 24. A
- 25. A
- 26. D
- 27. C
- 28. A
- 29. C