Interview Questions | MCQs

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HEMATOLOGY MCQs

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HEMATOLOGY Multiple Choice Questions MCQs

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1. Causes spurious decrease in MCV

- A. Cryofibrinogen
- B. hyperglycemia
- C. autoagglutination
- D. high WBC ct
- E. reduced red cell deformability

Answer: A

2. When the entire CBC is suppressed due to either anemia, infection, or hemorrhage is called?

- A. Erythroplasia
- B. Thrombocytopenia
- C. Pancytopenia
- D. Leukopenia

Answer: C

3. Total RBC count for Women is?

A. 4.4 -6

B. 4.2-5

C. 4.0-5.0

D. 4.2-5.2

Answer: C

4. Total RBC for men?

A. 4.0-5.0

B. 4.6-6.0

- C. 4.2-6.5 D. 4.0-6.0 **Answer: B** 5. What is
- 5. What is the major metabolically available storage form of iron in the body?
- A. Hemosiderin
- B. Ferritin
- C. Transferrin
- D. Hemoglobin

Answer: B

- 6. The best source of active bone marrow from a 20-year old would be:
- A. Iliac Crest (hip)
- B. Femur (thigh)
- C. Distal radius (forearm)
- D. Tibia (shin)

Answer: A

- 7. Laboratory Studies: Red Cell Indices: Determination of relative size of RBC. 82-98 fl
- A. MCH
- B. MCV
- C. MCHC

Answer: B

- 8. Laboratory Studies: Red Cell Indices: Measurement of average weight of Hb/RBC. 27-33 pg
- A. MCH
- B. MCV
- C. MCHC

Answer: B

- 9. Laboratory Studies: Red Cell Indices: Evaluation of RBC saturation with Hb. 32-36%
- A. MCV
- B. MCH

C. MCHC

Answer: C

10. There are 3 classifications of Anemia. What are they?

- A. In adequate production of Hb
- B. Decreased RBC production
- C. Increased Erythrocyte destruction
- D. Blood loss

Answer: A



HEMATOLOGY MCQs

11. Vitamin B12 and folic have the similar adverse effects, but what separates one form the other?

- A. Glossitis
- B. No neurological symptoms in folic acid
- C. muscle wasting
- D. Dizziness

Answer: B

12. Folic acid therapy can cause sickle cell anemia

A. True

B. False

Answer: B

14. Hydroxyurea increases hemoglobin production and decreases reticulocyte cells.

A. True

B. False

Answer: A

15. Hydroxyurea:

- A. decreases nitric oxide
- B. increases neutrophil and monocytes
- C. inhibits DNA synthesis by acting as a ribonucleotide reductase inhibitor

Answer: C

- 16. Hydroxyurea increases the serum uric acid levels.
- A. True
- B. False

Answer: A

- 17. Decitabine increases the fetal hemoglobin production by inducing methylation of DNA and thus prevents the switch from gamma to beta-globin production.
- A. True
- B. False

Answer: B

18. Hypocupremia is seen in

- A. osetoporosis, nephrotic disease
- B. sprue, cliac disease
- C. cardiovascular disease, colon cancer
- D. A and B
- E. B and C
- F. All of the above

Answer: F

- 19. Wilsons disease can cause liver problems
- A. True
- B. False

Answer: A

- 20. What are the treatment options for wilson's disease?
- A. Pencillamine
- B. Riboflavin
- C. Trientine
- D. Potassium disulfide

- E. Zinc
- F. A, B and C
- G. A, C, and D
- H. A, C, D, and E

Answer: H

21. Aplasia can occur because of riboflavin deficiency?

- A. True
- B. False

Answer: A

22. Angular stomatitis.cheilosis is a symptom of vitamin B12 deficiency?

- A. True
- B. False

Answer: B

24. Which test can be used to detect hemolytic anemia?

- A. Coombs test
- B. Genetic testing
- C. Peripheral blood smear (PBS)
- D. Schilling test

Answer: A

25. Which anemia is classified as not being able to use iron properly to synthesize hemoglobin because of a inherited cause.

- A. Iron deficiency anemia
- B. hypochromic anemia
- C. aplastic anemia

Answer: B

27. This fatal disorder results from clot/thrombus formation in the blood ciruclation

- A. thromboembolism
- B. DVT
- C. PAD
- D. Pulmonary embolism

E. All of the above Answer: E 28. Homan's sign

28. Homan's sign is classified as pain behind the knee

A. True

B. False

Answer: A

29. Patients that are sensitive to aspirin can take:

A. Sulfinpyrazone

B. Clopidogrel

C. Ticlopidine

D. 1 and 2

E. 2 and 3

Answer: E

30. What is the life span of RBC

A. 120

B. 100

C. 200

D. 80

Answer: A

34. Warfarin should be used with caution in the following:

A. Alcoholic liver disease

B. Gastrointestinal bleeding

C. recent neurosugery

D. Liver impairment

Answer: D

35. Isozymes of 2C can greatly effect warfarin

A. True

B. False

Answer: A

36. absolute lymphocytosis (>5000/mm³) without adenopathy, hepatosplenomegaly, anemia, thrombocytopenia is what stage

in CLL prognosis Scoring-Rai Staging System?

- A. Stage 0
- B. Stage I
- C. Stage II
- D. Stage III
- E. Stage IV

Answer: A

- 37. Conventional treatment is _____ for Rai stage II
- A. Antibiotics
- B. chemotherapy
- C. Antivirals
- D. rest

Answer: B

- 38. In patients with low numbers of neoplastic cells, sometimes due to treatment, PCR to amplify DNA can improve sensitivity, and detect signs of relapse.
- A. True
- B. False

Answer: A

- 39. Chronic lymphocytic leukemia is most common leukemia in what kind of people? Slide 4
- A. young adults
- B. older adults

Answer: B

- 40. absolute lymphocytosis and thrombocytopenia(< 100,000/mm^3) with or without lymphadenopathy, hepatomegaly, splenomegaly, or anemia is what stage in CLL prognosis Scoring-Rai Staging System?
- A. Stage 0
- B. Stage I
- C. Stage II
- D. Stage III

Answer: E
HEMATOLOGY Objective type Questions with Answers 41. Chronic Lymphocytic Leukemia is characterized by peripheral blood and bone marrow
A. lymphocytopenia B. lymphocytosis Answer: B
42. Chronic Lymphocytic Leukemia is characterized by gradual accumulation of small mature cells.
A. T B. B C. NK Answer: B
43. Which of the following is the most mature normoblast?
A. Orthochromic Normoblast B. Basophilic Normoblast C. Pronormoblast D. Polychromatic Normoblast Answer: A
44. absolute lymphocytosis with either hepatomegaly or splenomegaly with or without lymphadenopathy is what stage in CLL prognosis Scoring-Rai Staging System? A. Stage 0 B. Stage I C. Stage II D. Stage III E. Stage IV Answer: C
45. absolute lymphocytosis without lymphadenopathy without hepatosplenomegaly, anemia, or thrombocytopenia is what

stage in CLL prognosis Scoring-Rai Staging System?

A. Stage 0 B. Stage I

E. Stage IV

C. Stage II
D. Stage III
E. Stage IV
Answer: B

46. IN Chronic Lymphocytic Leukemia the Lymphocyte appearance: small or slightly larger than normal, hypercondensed(almost _____ appearing. nuclear chromatin patter, bare nuclei called "smudge cells" are common. A. soccer-ball

B. basketball

C. football

D. tennis-ball

Answer: A

- 47. Which of the following forms of Hb molecule has the lowest affinity for oxygen?
- A. Tense
- B. Relaxed
- C. Arterial
- D. Venous

Answer: A

- 48. What is the recommended cleaner for removing all oil from objective lens?
- A. 70 % alcohol or lens cleaner
- B. Xylene
- C. Water
- D. Benzene

Answer: A

49. Intravascular hemolysis is the result of trauma to RBCs while in the circulation

A. True

B. False

Answer: A

50. A 1:20 dilution was made in a unopette, with glacial acetic acid as the diluent. The four corner squares on BOTH sides of the hemacytometer are counted for a total of 100 cells. What is the total WBC ($x10^9$ /L.?

A. 0.25

B. 2.5

Answer: B

51. The shape of a cell is maintained by which of the following?

- A. Microtubules
- B. Spindle Fibers
- C. Ribosomes
- D. Centrioles

Answer: A

52. At which month of fetal development does the bone marrow become the primary site of hematopoiesis?

- A. 2nd
- B. 5th
- C. End of 6th month
- D. End of 7th month

Answer: C

53. Which types of cells develop from yolk sacs (Mesoblastic phase)?

- A. Hb F, Hg A2, and Hg A
- B. Gower 1 and Gower 2 Hgb
- C. Portland Hgb
- D. Only Erythroblasts

Answer: D

54. Normal Adult Hb A contains the following polypeptide chains:

- A. alpha and beta
- B. alpha and epsilon
- C. alpha and delta
- D. alpha and brotherton

Answer: A

55. Allergic reactions are frequently associated with an increase in the prescence of :

- A. Lymphocytes
- B. Neutrophils
- C. Monocytes
- D. Eosinophils

Answer: D

56. Lipid exchange between the RBC membrane and the plasma occurs:

- A. To replace lost lipids in the membrane
- B. To provide a mechanism for excretion of lipid-soluble RBC waste products
- C. To ensure symmetry between the composition of the interior and exterior lipid layers
- D. To provide lipid-soluble nutrients to the RBC

Answer: A

57. After the microscope has been adjusted for Kohler illumination, light intensity should never be regulated by using the...

- A. Rheostat
- B. Neutral density filter
- C. Kohler magnifier
- D. Condenser

Answer: D

58. Which of the followong types of microscopy is valuable in the identification of crystals that are able to rotate light?

- A. Compound brightfield
- B. Darkfield
- C. Polarizing
- D. Phase-contrast

Answer: C

59. During the Medullary Phase of hematopoietic development, which bone is the first to show hematopoietic activity?

- A. Femur
- B. Iliac Crest
- C. Skull
- D. Clavicle

Answer: D

60. Given the following values, calculate the RPI Observed reticulocyte count – 6% Hct- 30%

- A. 2
- B. 3

Answer: A

61. The lipids of the RBC membrane are arranged:

- A. In chains beneath a protein exoskeleton
- B. So that the hydrophobic portions are facing the plasma
- C. In a hexagonal lattice
- D. In two layers that are not symmetric in composition

Answer: D

62. The hexose monophosphate pathway activity increases the RBC source of

- A. Glucose and lactic acid
- B. 2,3-BPG and methemoglobin
- C. NADPH and reduced glutathione
- D. ATP and other purine metabolites

Answer: C

63. Which single feature of normal RBC's is most responsible for limiting their life span?

- A. Loss of mitochondria
- B. Increased flexibility of the cell membrane
- C. Reduction of Hb iron
- D. Loss of nucleus

Answer: D

64. In the Iron cycle, the transferrin receptor carries:

- A. Iron out of duodenal cells from the intestinal lumen
- B. Iron out of duodenal cells into the plasma
- C. transferrin-bound iron in the plasma
- D. transferrin-bound iron into erythrocytes

Answer: D

65. A multilineage cytokine among the ILs is:

- A. IL-1
- B. IL-2
- C. IL-3
- D. IL-4

Answer: A

66. Which of the following cells may develop in sites other than the bone marrow?

- A. Monocyte
- B. Lymphocyte
- C. Megakaryocyte
- D. Neutrophil

Answer: B

67. The acceptable range for hemoglobin values on a control sample is 13 + or - 0.4 g/dL. A hemoglobin determination is performed five times in succession on the same control sample. The results are (in g/dL. 12 12.3, 12, 12.2, and 12.1) These results are:

- A. Precise, but not accurate
- B. Both accurate and precise
- C. Accurate, but not precise
- D. Neither accurate nor precise

Answer: A

68. The layer of the erythrocyte membrane that is largely responsible for the shape, structure, and deformability of the cell is the:

- A. Integral protein
- B. Exterior lipid
- C. Peripheral protein
- D. Interior lipid

Answer: C

- 69. During midfetal life, the primary source of blood cells is the:
- A. Bone marrow
- B. Spleen
- C. Lymph Nodes
- D. Liver

Answer: D

70. In the bone marrow, RBC precursors are located:

- A. In the center of the hematopoietic cords
- B. Adjacent to megakaryocytes along the adventitial cell lining
- C. Surrounding fat cells in apoptotic islands
- D. Surrounding macrophages near the sinus membrane

Answer: D

71. Which of the following gathers, organizes, and directs light through the specimen?

- A. Ocular
- B. Objective lens
- C. Condenser
- D. Optical Tube

Answer: C

72. How are the globin chains genes arranged? Note: a means alpha, B means beta

- A. With a genes and B genes on the same chromosome including two a genes and two B genes
- B. With a genes and B genes on seperate chromosomes, two a genes on one chromosome and one B gene on a different chromosome
- C. With a genes and B genes on the same chromosome including four a genes and four B genes
- D. With a genes and B genes on separate chromosomes four a genes on one chromosome and two B genes on a different chromosome

Answer: B

73. The maximum number of erythrocytes generated by one Multipotential Stem Cell is:

A. 8

B. 1

C. 12

D. 16

Answer: D

74. What is the distribution of normal Hb in adults?

A. 80-90% Hb A, 5-10% Hb A2, 1-5% Hb F

B. >95% Hb A, <3.5 % Hb A2, <1-2% Hb F

Answer: B

75. The most frequent cause of needle punctures is:

- A. Patient movement during venipuncture
- B. Improper disposal of phlebotomy equipment
- C. Inattention during removal of needle after venipuncture
- D. Failure to attach needle firmly to tube holder

Answer: B

76. Iron is incorporated into the heme molecule in which of the following forms:

- A. Ferro
- **B.** Ferrous
- C. Ferric
- D. Apoferritin

Answer: B

77. The most important practice in preventing the spread of disease is:

- A. Wearing masks during patient contact
- B. Proper handwashing
- C. Wearing disposable lab coats
- D. Identifying specimens from known or suspected HIV and HBV patients with a red label

Answer: B

78. Which of the following would correlate with an elevated ESR value?

- A. Osteoarthritis
- B. Polycythemia
- C. Decreased globulins
- D. Inflammation

Answer: D

79. The enzyme deficiency in the Embden-Meyerhof pathway that is responsible for most cases of nonspherocytic hemolytic anemia is:

- A. Hexokinase
- B. Phosphotriptokinase
- C. Pyruvate Kinase
- D. Glyceraldehyde 3-Phosphate

Answer: C

80. The most common type of protein found in the cell membrane is:

- A. Lipoprotein
- B. Mucoprotein
- C. Glycoprotein
- D. Nucleoprotein

Answer: C

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