

Online Examinations (Even Sem/Part-I/Part-II Examinations 2020 - 2021)

Course Name - --Basic Hematology

Course Code - BMLT204

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Answer all the questions. Each question carry one mark.

9. 1. Which of the following are likely to increase in quantities when the body is under attack from bacteria? *

Mark only one oval.

- Erythrocytes
- Leukocytes
- Thrombocytes
- None of these

10. 2. Most of the volume of normal human blood is composed of: *

Mark only one oval.

- Red cells
- Hemoglobin
- Plasma
- White cells

11. 3. Blood is_____ *

Mark only one oval.

- Acidic
- Slightly alkaline
- Composed mostly of white blood cells & platelets
- Cooler than body temperature

12. 4. Which single feature of normal RBS's is most responsible for limiting their life span? *

Mark only one oval.

- Loss of mitochondria
- Increased flexibility of the cell membrane
- Reduction of Hb iron
- Loss of nucleus

13. 5. When blood clumps or forms visible islands in the still liquid plasma, it is called: *

Mark only one oval.

- Clotting
- Agglutination
- Precipitation
- None of the above

14. 6. Which of the following statements is true of antigen-antibody interactions? *

Mark only one oval.

- They are used by our bodies only to identify blood types.
- They are used to identify and reject microorganisms, such as viruses and bacteria, that invade our bodies.
- They are the way our blood clots when we are bleeding from an open wound.
- B and C

15. 7. Which blood cells secretes antibody? *

Mark only one oval.

- Eosinophils
- Monocytes
- Lymphocytes
- Neutrophils

16. 8. What anticoagulants is used for most coagulations tests? *

Mark only one oval.

- Heparin
- EDTA
- Warfarin
- Apixaban

17. 9. What are the steps in fibrin formation? *

Mark only one oval.

- "Tissue factor" or thromboplastin Is released from endothelial wall
- Contact of blood with collagen
- Clots bind thromboxane A2
- A & B

18. 10. Which of the following factors is present in serum? *

Mark only one oval.

- Factor IX
- Fibrinogen
- Prothrombin
- Factor VIII

19. 11. The blood for coagulation studies is collected in trisodium citrate in the ratio of (citrate to blood ratio): *

Mark only one oval.

- 1:2
- 1:4
- 1:8
- 1:9

20. 12. Why can't Heparin be administered orally? *

Mark only one oval.

- It is large
- It is negatively charged
- Both A and B
- It contains too much Mg⁺⁺

21. 13. Which of the following will not coagulate when placed separately on four slides? *

Mark only one oval.

- Blood serum
- Blood plasma
- Blood from pulmonary vein
- Blood from lymphatic tissue

22. 14. Anticoagulant used for HbA1c Test is *

Mark only one oval.

- Sodium fluoride
- Heparin
- EDTA
- Sodium citrate

23. 15. Anticoagulants are also called as *

Mark only one oval.

- Blood thinners
- Blood thickeners
- Vasodilators
- Blood coagulators

24. 16. Which Anticoagulant is used for LFT, KFT & Lipid Profile? *

Mark only one oval.

- Trisodium Citrate
- EDTA
- Heparin
- No Anticoagulant Required as Serum Specimen is preferred for the given tests

25. 17. Anticoagulant suitable for storing blood for transfusion is *

Mark only one oval.

- Dextrose, phosphate and citrate
- Glucose, phosphate and oxalate
- Dextrose, heparin and citrate
- Dextrose, EDTA and saline

26. 18. Which of the following is the stem cell marker? *

Mark only one oval.

- CD15
- CD34
- CD123
- CK

27. 19. The most common type of protein found in the cell membrane is: *

Mark only one oval.

- Lipoprotein
- Mucoprotein
- Glycoprotein
- Nucleoprotein

28. 20. Platelets are formed from what type of cell? *

Mark only one oval.

- Melanocytes
- Astrocytes
- Macrophages
- Megakaryocytes

29. 21. Where does haematopoiesis take place? *

Mark only one oval.

- Bone marrow
- Liver
- Pancreas
- Lungs

30. 22. The most common cause of macrocytosis is _____ *

Mark only one oval.

- Alcoholism
- Iron deficiency
- Pernicious anemia
- Hemolytic anemia

31. 23. The process of platelet production by the bone marrow *

Mark only one oval.

- Plasma
- Thrombopoiesis
- Erythropoiesis
- Blood from lymphatic tissue

32. 24. Blood is stained with _____ stain. *

Mark only one oval.

- Methylene blue
- Safranin
- Leishman stain
- Carbol fuchsine

33. 25. The most frequent cause of needle punctures is: *

Mark only one oval.

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

34. 26. What is the recommended cleaner for removing all oil from objective lens? *

Mark only one oval.

- 70% alcohol or Lens cleaner
- Xylene
- Water
- Benzene

35. 27. In Leishman staining procedure, after the undiluted stain is added to the entire upper surface of smear, waiting for 2 minutes before pouring buffered water is: *

Mark only one oval.

- For smear to stain uniformly
- To clean the background plasma
- For fixation of smear
- For staining of smear

36. 28. All of the following are Romanowsky stains except: *

Mark only one oval.

- Giemsa stain
- Leishman stain
- Hematoxylin stain
- Field stain

37. 29. Which of these elements in blood is bound by EDTA in a collection tube to prevent clotting? *

Mark only one oval.

- Potassium
- Magnesium
- Calcium
- Sodium

38. 30. The hands of the phlebotomist should be washed _____ *

Mark only one oval.

- Before inspection collection
- After specimen collection
- each time handling of sample
- All answers are correct

39. 31. Which of the following red blood cell disorders may result from life at a higher altitude? *

Mark only one oval.

- Aplastic anemia
- Sickle cell anemia
- Pernicious anemia
- Polycythemia

40. 32. Major constituent of hemoglobin receives iron from _____ *

Mark only one oval.

- Liver
- Bolus
- Chyme
- Lungs

41. 33. Shape of red blood cells are *

Mark only one oval.

- Triconvex
- Triconcave
- Biconcave
- Biconvex

42. 34. The polypeptide chains of hemoglobin A are composed of: *

Mark only one oval.

- 1 α , 3 β
- 2 α , 2 β
- 1 α , 2 β , 1 δ
- 4 α

43. 35. The heme portion of the hemoglobin molecule consists of: *

Mark only one oval.

- A. Porphyrin ring with a molecule of Fe in the center.
- Four Porphyrin rings with a molecule of Fe in the center.
- Porphyrin ring with a molecule of Fe in the center.
- Four porphyrin rings, each containing a molecule of Fe in the center

44. 36. Fetal Hb bind O₂ with more affinity than adult Hb, because *

Mark only one oval.

- Fetal Hb carries γ chain instead of β
- Fetal Hb carries γ chain instead of α
- Fetal Hb is bigger in structure
- None of these

45. 37. Which test can be used to detect hemolytic anaemia? *

Mark only one oval.

- Coombs test
- Genetic test
- Peripheral blood smear (PBS)
- Schilling test

46. 38. Carboxyhemoglobin is formed by _____ *

Mark only one oval.

- CO
- CO₂
- HCO₃
- HCN

47. 39. Howell-Jolly bodies are seen in: *

Mark only one oval.

- Tuberculosis
- Megaloblastic anemia
- Septicemia
- Hemophilia

48. 40. In high altitudes, the hemoglobin value is: *

Mark only one oval.

- Higher
- Lower
- The same
- Unaltered

49. 41. An iron protein complex which combines with oxygen and carbon dioxide is: *

Mark only one oval.

- Hematin
- Hemosiderin
- Hemoglobin
- Oxyhemoglobin

50. 42. In females, number of red blood cells in one cubic millimeter of blood are *

Mark only one oval.

- 1 to 2 million
- 2 to 3 million
- 4 to 4.5 million
- 4.5 to 5.5 million

51. 43. The precursor of the platelet is: *

Mark only one oval.

- Myeloblast
- Megablast
- Megakaryocyte
- Plasmablast

52. 44. The term thrombocytopenia indicates a/an: *

Mark only one oval.

- Abnormally low number of thrombocytes
- Abnormally high number of thrombocytes
- Normal number of platelets
- Abnormally low total white blood count

53. 45. What is the normal value of CT? *

Mark only one oval.

- 2-9 minutes
- 10-13 minutes
- 5-8 minutes
- 3-11 minutes

54. 46. Total RBC count for women is _____ *

Mark only one oval.

- 4.4-6
- 4.2-5
- 4.0-5.0
- 4.2-5.2

55. 47. Sickle cells are also called: *

Mark only one oval.

- Dacrocytes
- Burr cells
- Drepanocytes
- Spherocytes

56. 48. Red cell count is carried out by _____ *

Mark only one oval.

- Electrogram
- Sphygmomanometer
- Haemoglobinometer
- Haemocytometer

57. 49. High TLC mean: *

Mark only one oval.

- An increased production of white blood cells to fight an infection
- Immature WBCs & abnormalities
- Viral infections that temporarily disrupt the work of bone marrow function
- A & B

58. 50. What is the dilution factor for red blood cells? *

Mark only one oval.

- 1:300
- 1:200
- 1:100
- 0.0763888888888889

59. 51. What is the volume of one triple-lined square in haemocytometer (neubauer's chamber)? *

Mark only one oval.

- . 0.02 mm³
- 0.002 mm³
- 0.004 mm³
- 0.04 mm³

60. 52. What squares are used when counting red blood cells? *

Mark only one oval.

- The corner squares
- The 3 squares on the left & the 3 squares on the right
- The middle top square & middle bottom square
- The middle square

61. 53. The blood in the vessels normally does not clot because: *

Mark only one oval.

- Vitamin K antagonists are present in plasma
- Thrombin has a positive feedback on plasminogen
- Sodium citrate in plasma chelates calcium ions
- Vascular endothelium is smooth and coated with glycocalyx

62. 54. The mean of sampling distribution is *

Mark only one oval.

- Less than mean of process distribution
- More than mean of process distribution
- Equal to mean of process distribution
- less than mean
- quick sort

63. 55. The percent of the sample means will have value that are within ± 3 standard deviations of the distribution mean is *

Mark only one oval.

- 95.5
- 96.7
- 97.59999999999999
- 99.7

64. 56. Anticoagulant used for HbA1c Test is: *

Mark only one oval.

- Sodium fluoride
- EDTA
- Heparin
- Sodium citrate

65. 57. For Karyotyping blood is collected in *

Mark only one oval.

- Heparin tube
- Gel tube
- None of these
- EDTA tube

66. 58. Hemoglobin is type of *

Mark only one oval.

- Glycoprotein
- Pigment
- Isoenzymes
- Allosteric protein

67. 59. Carboxyhemoglobin formed by *

Mark only one oval.

- Binding with CH₂
- Binding with Cl
- Binding with CO
- Binding with CO₂

68. 60. Natural killer cells (NK) are part of *

Mark only one oval.

- Leukocyte
- Lymphocyte
- RBC
- Platelets

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