

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.
- Both 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
- Both 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 It is large and It is negatively charged
- 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.

- Meyloblast
- 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
- An increased production of white blood cells to fight an infection and Immature WBCs & abnormalities

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

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. 55. 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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