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? *

- 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_____*

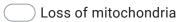
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🔵 Acidic

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? *



- 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 an	d 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 secrets antibody? *

- Eosinophils
- Monocytes
- _____ Lymphocytes
- Neutrophils

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

Mark only one oval.



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? *

- 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.



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

Mark only one oval.

\bigcirc	lt	is	large
\smile			

- 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?

- 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 thickers
- 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
- CD123
- СК
- 27. 19. The most common type of protein found in the cell membrane is: *

- 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.

\subset	Bone marrow
\subset	Liver
\subset	Pancreas
\square	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.

\square	Methylene blue
\square	Safranin
\square) Leishman stain

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

- 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? *

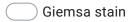
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70% alcohol or Lens cleane	r
Xylene	
Water	
Benzene	

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: *



- 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? *

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

40. 32. Major constituent of hemoglobin receives iron from_____*

Mark only one oval.

\bigcirc	Liver
\bigcirc	Bolus
\bigcirc	Chyme
\bigcirc	Lungs

41. 33. Shape of red blood cells are *

Mark only one oval.



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



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 *

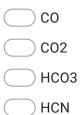
Mark only one oval.

- \bigcirc Fetal Hb carries γ chain instead of β
- \bigcirc 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? *

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

46. 38. Carboxyhemoglobin is formed by *

Mark only one oval.



- 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

C 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: *

- 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.



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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.

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? *

- 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

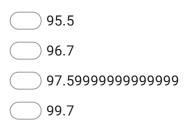
61. 53. The blood in the vessels normally does not clot because: *

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 *



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 *

- Glycoprotein
- Pigment
- lsoenzymes
- 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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