

10. Which percentage of alcohol swab is used for sterilization for blood collection
 - a. 60%
 - b. 70%
 - c. 80%
 - d. 90%
11. Haem molecule contains which of the following minerals
 - a. Magnesium
 - b. Iron
 - c. Calcium
 - d. Sodium
12. Which of the following chemicals is explosive in nature
 - a. Chromic acid
 - b. Picric Acid
 - c. Potassium Cyanide
 - d. Selenite
13. Which is the smallest among the blood cells
 - a. Erythrocytes
 - b. Lymphocytes
 - c. Thrombocytes
 - d. None of these
14. Oliguria refers to urine output
 - a. Less than 500 ml/day
 - b. Less than 50 ml/day
 - c. More than 3 litre/day
 - d. None of these
15. Each proerythroblast produces _____ matures RBCs.
 - a. 2-4
 - b. 4-8
 - c. 8-16
 - d. 16-32
16. A symbol containing round white pictures with blue background indicates
 - a. Prohibitory symbol
 - b. Safety symbol
 - c. Hazard warning symbols
 - d. None of these
17. Which of the following is not a biological hazard
 - a. Air borne organisms
 - b. Blood borne organisms
 - c. Infections agents
 - d. Toxic chemicals
18. Which of these is not a Transfusion Transmitted Disease?
 - a. AIDS
 - b. Hepatitis - B
 - c. Dengue
 - d. Malaria
19. What is the storage temperature for Packed Red Blood Cells?
 - a. 1-6 °C
 - b. -20 to -40 °C
 - c. 37 to 45 °C
 - d. -40 to -80 °C
20. Natural Killer cells are a type of
 - a. Monocyte
 - b. Basophil
 - c. Lymphocyte
 - d. None of these

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(Descriptive)

Time : 2 hrs. 30 min.

Marks : 50

[Answer question no.1 & any four (4) from the rest]

1. a. Describe different components of blood. 5+5=10
b. Describe the white blood cells.
2. Explain the various methods of urine analysis. 10
3. Describe briefly about the common laboratory hazards. Explain in detail the First Aid Practice in Laboratory. 5+5=10
4. Explain the various types of chemicals used in a laboratory, also describe their handling and storage. Write a short note on the signs and symbols used in a laboratory. 4+3+3
=10
5. With the help of a labelled diagram explain about the biosynthesis of hemoglobin. 10
6. Explain in detail about hematopoiesis. Discuss briefly about the erythroid series 7+3=10
7. Briefly discuss about the various methods for collection of blood. Write a short note on anticoagulants. 6+4=10
8. Describe about the blood grouping and cross matching methods used in blood banking. 10

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