

Register No.:

939

April 2024

Time - Three hours
(Maximum Marks: 100)

- [N.B. 1. Answer all questions under Part-A. Each question carries 3 marks.
2. Answer all the questions either (A) or (B) in Part-B. Each question carries 14 marks.]

PART - A

1. Write the importance of blood bank location.
2. What is bio safety?
3. What are Alleles?
4. What is Rouleax formation?
5. "Blood will not clot inside the circulatory system of healthy person"- Justify.
6. What is rejuvenation?
7. What is the minimum interval frequency time required for donation of blood?
8. What is Apheresis?
9. What is Antiglobulin test?
10. What are the procedures needed to perform compatibility test?

[Turn over.....

PART – B

11. (a) Discuss about the Medico-legal aspects and ethical issues in blood bank management.
(Or)
(b) Explain Immunohematology and Antigen - Antibody Reaction.
12. (a) Explain the techniques of ABO and Rh blood grouping system.
(Or)
(b) Explain about Erythropoietin fetalis.
13. (a) (i) What are the preliminary tests need to perform before storing blood? (7)
(ii) Explain the biochemical changes in stored blood. (7)
(Or)
(b) Explain the preparation and uses of (i) Acid citrate dextrose
(ii) Citrate phosphate dextrose.
14. (a) Write short notes on:
(i) Blood transfusion to unborn baby (7)
(ii) Necessary equipment for blood transfusion (7)
(Or)
(b) Discuss about blood donor selection, collection and steps involved in transfusion techniques.
15. (a) Write short notes on:
(i) Direct Antiglobulin Test (DAT)
(ii) Indirect Antiglobulin Test (IAT)
(Or)
(b) Write short notes on:
(i) Low ionic strength solution (LISS) method (7)
(ii) Cross Matching (7)
