

PG (CBCS)
M.Sc. Semester-III Examination, 2022
MEDICAL LABORATORY TECHNOLOGY
PAPER: MLT 304C
(BLOOD BANK PROCEDURES)



Full Marks: 40

Time: 2 Hours

GROUP-A

Answer any **FOUR** from the following questions:

4×2=8

1. i. Give the principle of Hb estimation by CuSO₄ method.
ii. Anti-A1 is prepared from_____ 1+1
2. i. Father is 'AB' blood group and mother blood group is 'A' can a baby 'O' group? justify your answer. 1+1
ii. Write a schematic biochemical diagram of 'B' group blood.
3. i. Write the full form of TACO and PTP.
ii. In which condition RDP is transfused to the patient? 1+1
4. i. What is reagent?
ii. What is AHG reagent? 1+1
5. Write a short note on GVSHD or TRALI
6. What do you mean good quality of RDP?
7. Give the name of the agent to reduce the 'Zeta Potential' of RBC
8. Write two major causes of HDN.

GROUP-B

Answer any **FOUR** from the following questions:

4×4=16

9. Write a short note on indication of blood transfusion of different blood products.
10. i. What is the principle of Sandwich ELISA?
ii. Write a short note on tetani which occurs during blood collection. 2+2
11. Discuss briefly about compatibility of blood which is done by Gel Technology
12. What are the different factors that influence the Ag-Ab reaction in blood centre activity
13. How can you manage the haemolytic disease of new born (HDN)?
14. Discuss briefly apheresis technique?
15. How can you confirm Rh-negativity?
16. Write the steps of Cryoprecipitated preparation?

GROUP-C

Answer any **TWO** from the following questions:

2×8=16

17. Write a short note about delay type transfusion reaction and their management protocol also.
18. Write a brief description about changes occur of stored blood in the blood centre
19. i. Illustrate your idea about IAT technique for compatibility testing.
ii. Write the advantages and disadvantages of malaria test by RDT compare to the convention method. 4+4
20. Discuss about screening criteria for blood donor.


