

PG CBCS
M.SC. Semester-III Examination 2021
MEDICAL LABORATORY TECHNOLOGY
 PAPER: MLT 396C (PRACTICAL)
(BLOOD BANKING PROCEDURSS LAB)

Full Marks: 50**Time: 4 Hours****Answer any TWO questions of the following:****2X25=50**

1. a) Write the principle, Procedure and interpretation of the result of HIV testing by ELISA.
 b) Name another two enzymes used in ELISA other than HRP. 6+12+5+2
2. a) Write the principle of major cross matching? 2+15+3+(3+2)
 b) Write the procedure of IAT for compatibility testing.
 c) Interpret the result of the above testing.
 d) Write the advantages & disadvantages of Gel cross matching process.
3. a) Write the procedure for the preparation of cry precipitation blood center. 15+5+5
 b) How can you preserve it?
 c) What are the differences between CRBC and PRBC?
4. a) Write down the principle of reverse grouping in ABO system. 2+15+5+3
 b) Write the procedure of reverse grouping done in blood centre.
 c) Interpret the result of reverse grouping.
 d) Can you done reverse grouping of 'Rh' typing? - justify your opinion.
5. a) What is antibody titer? 1+15+9
 b) Write the process to determine the titre value of AntiA.
 c) How can you perform the determination of specificity of antisera to be used in 'ABO' system testing is blood centre?
6. a) Write the principle of Hb estimation by CuSO_4 solution method. 2+3+(12+3)
 b) How can you prepare CuSO_4 solⁿ in blood centre for Hb estimation?
 c) Write the process of Hb estimation by CuSO_4 solⁿ and interpretation of the result.
 d) What is the principle of Hb estimation by Hemocue method?
