

PG CBCS
M.Sc. Semester-IV Examination, 2022
MEDICAL LABORATORY TECHNOLOGY (MLT)
PAPER: MLT 402C
(ADVANCED HAEMATOLOGY & IMMUNO HAEMATOLOGY)
Full Marks: 40 **Time: 2 Hours**

The figures in the right - hand margin indicate full marks.
 Candidates are required to give their answers in their own words as far as practicable.

GROUP - A

1. Answer any two questions: 2×8=16
- a) Elaborate the pathophysiology, complications and prevention of hemolytic disease in new born. 4+2+2
 - b) Explain the genetics and inheritance of ABO and Rh blood grouping system, how blood grouping may useful for parental identification. 3+3+2
 - c) Discuss the causes of pathogenesis of thrombotic disorders. 5+3
 - d) Give a basic idea about transcription process.

GROUP - B

2. Answer any four questions: 4×4=16
- a) Basic idea about Fibrinolytic system
 - b) How to preserve the blood components in blood banking system?
 - c) Discuss the complication of mismatched blood transfusion.
 - d) What do you mean by cell mediated immunity?
 - e) Procedure and interpretation of HLA typing.
 - f) Mention the different types of morphologically altered RBC.
 - g) Biochemical structures of ABO antigen. What is Bombay 'O' blood group? 2+2
 - h) Basic procedure for infectious disease screening before blood transfusion.



GROUP - C

3. Answer any four questions: 2X4 = 8
- a) Mechanism of action of heparin.
 - b) What is purpura?
 - c) Define embolism.
 - d) Types of blood bag.
 - e) What is cross match?
 - f) Give any two examples of chemokines.
 - g) Function of von Willebrand factor.
 - h) Name any two important platelet surface glycoprotein receptors.
