

QP Code:102108

Reg. No.:.....

**PG Degree Regular/Supplementary Examinations in Immuno
Haematology and Blood Transfusion Medicine (MD) November 2025**

Paper II - Immunohaematology, Immunogenetics and Applied Serology

Time: 3 hrs

Max marks:100

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Essay: (20)

1. Describe ABO blood group system with a note on genetics. What is role of blood group genotyping in blood transfusion.

Short essays: (8x10=80)

2. Describe various compatibility procedures in the hospital transfusion laboratory. Add a note on computer/electronic cross match.
3. List the drugs interfering in Red cell serological testing and how these challenges can be overcome.
4. Quality control of Anti Human Globulin reagent. Add a note on preparation of control cells (check cells) for AHG testing.
5. Discuss the molecular biology of Rh D variants and their clinical significance.
6. Define reagent red cell panels. Describe requirements for preparation of Reagent Red Cell Panels.
7. How will you evaluate Red cell autoantibodies. Describe transfusion support of a patient with warm autoimmune hemolytic anemia.
8. Transfusion – related acute lung Injury: Pathogenesis, diagnosis and management.
9. Lectins in Transfusion Medicine.
