

QP Code: 101108

Reg. No.:.....

**PG Degree Regular/Supplementary Examinations in Transfusion
Medicine (MD) May 2021**

Paper I – Applied Aspects of Basic Sciences in Relation to Transfusion Medicine

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 iron metabolism in health. Discuss laboratory diagnosis and prevention of iron deficiency in repeat voluntary blood donors.

Short essays:

(8x10=80)

2. Oxygen dissociation curve
3. Natural anticoagulants
4. Antibody mediated hyper acute rejection of solid organ transplants
5. Laboratory diagnosis of G6PD deficiency and its applied aspects in transfusion medicine
6. Describe various subtypes of lymphocytes and their functions in immune response
7. Immunogenicity of blood group antigens
8. Potassium (K⁺) levels in red cell supernatant during storage and its applied aspects
9. Mendelian theory of inheritance
