

QP Code:

Reg.No.:.....

MD Degree Examinations in Transfusion Medicine

(Model Question Paper)

Paper I – Applied aspects of basic sciences in relation to Transfusion Medicine

Time: 3 hrs

Max marks :100

- *Answer all questions*
- *Draw diagrams wherever necessary*

Essay:

(20)

1. Describe haemoglobin structure, synthesis, functions, aberrations and degradation. Give a brief account of iron and bilirubin metabolism

Short essays:

(8X10=80)

2. Cellular model of coagulation
3. Mendelian law of inheritance.
4. Red cell storage lesions.
5. Oxygen dissociation curve.
6. Eosinophils in health and disease.
7. Structure of RBC membrane
8. Hematopoetic growth factors
9. Platelet function tests

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Paper II – Immunohematology, immunogenetics, and applied serology

Time: 3 hrs

Max marks:100

- ***Answer all questions***
- ***Draw diagrams wherever necessary***

Essay:

(20)

1. Describe serological characteristics of antibodies in auto immune hemolytic anaemia and its clinical significance. How you will provide transfusion support in patients with warm auto immune hemolytic anaemia

Short essays:

(8X10=80)

2. Monoclonal antibodies
3. ABO grouping discrepancies
4. IgA deficiency and its significance in Transfusion Medicine.
5. Antigen antibody reactions
6. Secretor status
7. Non haemolytic transfusion reactions
8. Cytokines
9. Subsets of lymphocytes

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Paper III – Blood donor organization, Technology of components, clinical hemotherapy.

Time: 3 hrs

Max marks:100

- *Answer all questions*
- *Draw diagrams wherever necessary*

Essay:

(20)

1. Describe the aims and objectives of national blood policy. Discuss strategies for blood donor motivation in Indian scenario

Short essays:

(8X10=80)

2. Look back policy
3. LJ chart and westgard rules
4. Prion diseases and its significance
5. Vasovagal reactions in blood donors
6. Intra-operative hemodilution
7. Leucoreduction.
8. Heparin induced thrombocytopenia
9. Harvesting and preservation of peripheral stem cells

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Paper IV – Recent Advances & Technology

Time: 3 hrs

Max marks:100

- *Answer all questions*
- *Draw diagrams wherever necessary*

Essay:

(20)

1. Describe principle of nucleic acid test. What are the different types of NAT. Discuss its application in transfusion medicine

Short essays:

(8X10=80)

2. Gene therapy
3. RBC substitutes
4. Recombinant factor VII a
5. ISBT 128
6. DNA microarrays
7. RBC adhesion molecules
8. Molecular epidemiology of HIV 1 and 2 in India
9. Mesenchymal stem cells
