

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MD 0522]

MAY 2022

Sub. Code: 3012

M.D. DEGREE EXAMINATION

BRANCH XXI – IMMUNOHAEMATOLOGY AND BLOOD TRANSFUSION

**PAPER II – IMMUNO-HAEMATOLOGY, IMMUNOGENETICS
APPLIED SEROLOGY**

Q.P. Code: 203012

Time: Three Hours

Maximum: 100 Marks

I. Essay Questions:

(2 x 15 = 30)

1. Discuss ABO discrepancies and methods to resolve the same.
2. Discuss the role of HLA matching in stem cell transplantation, determination of unacceptable mismatches, the role of P and G groups and the different methodologies currently in use for determining HLA types.

II. Short notes:

(10 x 7 = 70)

1. Discuss – Acquired B antigen.
2. Role of MICA in solid organ transplantation.
3. Nucleic acid testing in blood donors – technologies available, pros and cons.
4. Types of Coombs antisera.
5. Determining of IgG subtypes – role in the context of transfusion medicine.
6. Briefly discuss the electronic crossmatch and pros and cons in the Indian setting.
7. Describe the immune adverse events that can occur following a transfusion.
8. Discuss briefly the genetics diagnosis and clinical impact of weak D.
9. Immunohaematological testing and choice of red cells for a patient with sickle cell anaemia.
10. Describe the different tests to diagnose heparin induced thrombocytopenia.
