

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

[MD 0522]

MAY 2022

Sub. Code: 3013

M.D. DEGREE EXAMINATION

BRANCH XXI – IMMUNOHAEMATOLOGY AND BLOOD TRANSFUSION

**PAPER III – BLOOD DONOR ORGANISATION TECHNOLOGY OF
COMPONENTS AND CLINICAL HAEMOTHERAPY**

Q.P. Code: 203013

Time: Three Hours

Maximum: 100 Marks

I. Essay Questions:

(2 x 15 = 30)

1. Discuss platelet refractoriness, its pathogenesis, diagnosis, prevention and management.
2. Discuss automation in the Immunohaematology and infectious disease testing labs of a blood centre.

II. Short notes:

(10 x 7 = 70)

1. Methods to enhance donor motivation.
2. Automation of blood component separation.
3. Endotheliopathy of Trauma.
4. Anti-Kidd antibodies – nature, detection and clinical significance.
5. Describe Global tests of haemostasis and its role in patients with liver disease.
6. Blood Irradiators and indications for the use of irradiated blood products.
7. The role of anti D titre estimation in an O Negative mother at 36 weeks of gestation with a positive ICT.
8. Granulocyte transfusions.
9. Discuss briefly the basic tests of coagulation that guide transfusion therapy in a bleeding patient.
10. Describe process requirements and measures to meet quality requirements of cryoprecipitate and FFP.
