

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

**[MD 0522]**

**MAY 2022**

**Sub. Code: 3011**

**M.D. DEGREE EXAMINATION**

**BRANCH XXI – IMMUNOHAEMATOLOGY AND BLOOD TRANSFUSION  
PAPER I – BASIC APPLIED ASPECTS RELATED TO TRANSFUSION MEDICINE**

*Q.P. Code: 203011*

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Essay Questions:**

**(2 x 15 = 30)**

1. Describe the structure and function of platelets and changes that occur with storage of platelet rich concentrates.
2. Describe the physiological changes in pregnancy that impact on transfusion practice in the setting of post partum haemorrhage.

**II. Short notes:**

**(10 x 7 = 70)**

1. Partial D.
2. Principle and uses of leukodepletion.
3. Westgard rules.
4. Physiological changes during blood donation.
5. Platelet storage bags.
6. Discuss window period for viral infections screened in donors.
7. Adverse events during apheresis.
8. The luminex platform and it's uses in transplant immunology.
9. Column agglutination technology in transfusion medicine.
10. Red cell additive solutions.

\*\*\*\*\*