

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

[AHS 0222]

**FEBRUARY 2022
(OCTOBER 2021 EXAM SESSION)**

Sub. Code: 3503

**POST GRADUATE DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY
(From 2014-2015 onwards)
PAPER III – BLOOD BANK SERVICES AND QUALITY CONTROL
*Q.P. Code : 363503***

Time : Three hours

Answer ALL Questions

Maximum : 100 Marks

I. Elaborate on:

(2x20=40)

1. a) ABO blood group system, inheritance, ABO genes.
b) Inheritance Patterns – Phenotype and Genotypes.
c) Biochemistry of ABO blood group System.
d) Write a note on Subgroups of A and B.
2. a) Write about anticoagulants and preservative in Blood banking.
b) Note on Storage and preservation of Blood and blood components.
c) Recent advances in Red cells storage.

II. Write notes on:

(10x6=60)

1. Applications of Rh Genotyping.
2. Draw pictures of IgM and IgG antibody and write their clinical significance.
3. ELISA.
4. Donor Hb estimation.
5. Cross match and its types.
6. Blood Spillage in Serology Lab Management.
7. Cryoprecipitate.
8. Hemolytic transfusion reactions.
9. Post Donation Care.
10. EQAS.
