

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

[AHS 0321]

MARCH 2021

Sub. Code: 3503

(OCTOBER 2020 EXAM SESSION)

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. Pre-transfusion compatibility testing
2. The biochemical basis of ABO blood groups. Explain Bombay blood group, its clinical relevance and how you will test for it in the blood bank.

II. Write notes on:

(10x6=60)

1. Use and care of a centrifuge
2. Low ionic strength solution
3. Describe any two methods of haemoglobin estimation that can be used in a blood bank with 100 donations per day
4. Quality checks for Rh typing sera
5. The cellular composition of blood
6. Antibody screening
7. Blood collection bags
8. How to differentiate an allo-antibody from an auto-antibody
9. Apheresis in the blood bank
10. Any 6 donor screening criteria for acceptance
