

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

[LR 1220]

DECEMBER 2020
(AUGUST 2020 EXAM SESSION)

Sub. Code: 5031

BACHELOR IN MEDICAL LABORATORY TECHNOLOGY
THIRD YEAR
PAPER I – COAGULATION & TRANSFUSION MEDICINE
Q.P. Code: 725031

Time: Three Hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Molecular mechanisms of Fibrinolysis and its degradation products.
2. Describe in detail about Anticoagulant preservatives solutions and additives solution used for Red blood cells and their storage time.
3. Role of HLA in Transplantation.

II. Write notes on:

(8 x 5 = 40)

1. Classify “A” subgroups.
2. Pre-Transfusion Testing.
3. Write about genetics and laboratory diagnosis of hemophilia.
4. Weak D.
5. Lupus anticoagulant.
6. Write about the basic structures of an antibody.
7. Auditing in Blood Bank.
8. Patho–physiology of Rh - Hemolytic Disease of the fetus and Newborn (HDFN).

III. Short answers on:

(10 x 3 = 30)

1. Gel technology.
2. Von willebrand Factor.
3. Serine protease inhibitor (SERPIN).
4. ‘Window period’.
5. International Normalized Ratio.
6. Types of voluntary blood Donors.
7. Apheresis.
8. Cryo-precipitate.
9. Recombinant Factor VIIa.
10. Direct Antiglobulin Test.
