

**B.Sc. MEDICAL LABORATORY TECHNOLOGY  
THIRD YEAR  
PAPER I – COAGULATION & TRANSFUSION MEDICINE**

*Q.P. Code: 725031*

**Time: Three Hours**

**Maximum: 100 Marks**

**Answer all questions**

**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.

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