

DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY
SECOND YEAR
PAPER II – HAEMATOLOGY AND BLOOD BANK TECHNOLOGY
Q.P. Code: 842612

Time: Three Hours**Maximum : 100 Marks****Answer All questions****I. Elaborate on:****(3 x 10 = 30)**

1. Describe Antigen and Antibody reaction and their application in ImmunoHematology?
2. Describe the different types of cross match techniques and what type of cross done for each component?
3. Classify ABO and RH blood group system and performance of testing methods.

II. Write notes on:**(10 x 5 = 50)**

1. Structure of the immunoglobulin molecule.
2. Primary and secondary immune response.
3. Hemolytic transfusion reaction.
4. Monoclonal Rh antibodies mechanism of blood coagulation.
5. Pre transfusion testing methods.
6. What are the different types of Elisa?
7. Hemolytic disease of the new born?
8. Preparation of blood smears.
9. Principle of Coombs tests.
10. Indirect agglutination test.

III. Short answers on:**(10 x 2 = 20)**

1. What are the different types of TTI screening after the blood donation?
2. Bombay blood group.
3. Grading of agglutination reaction.
4. What is the condition in which direct agglutination test is positive?
5. What are the anti-coagulation used in the blood products and how long each component is stored?
6. What is the documentation maintained in the donor record?
7. What is erythrocyte sedimentation rate?
8. How do you discard the TTI screening positive blood bags?
9. What is the laboratory findings in hemolytic anemia and what is the special test used to do the bone marrow?
10. What is single donor platelets apheresis?
