



FACULTY OF ALLIED HEALTH SCIENCES, UNIVERSITY OF RUHUNA
 Department of Medical Laboratory Science
 Third End Semester Examination – March 2025 - 2021/2022 Batch
 MLS 2162 Transfusion Medicine – Theory (Essay)

Date: 28th March 2024

Time: 9.00 a.m. – 10.00 a.m.

Duration: 1 hour

Answer all questions

Index Number:

1.
 - 1.1. List the investigations performed on a donor blood pack before transfusing to a patient? (20 marks)
 - 1.2. Explain the procedure for performing a major crossmatch for a patient awaiting a major pre-planned surgery. (30 marks)
 - 1.3. State the main constituents in,
 - a. Fresh Frozen Plasma (FFP)
 - b. Cryo-precipitate (10 marks)
 - 1.4. What are the indications for the use of the components mentioned in 1.3 (a) and (b)? (10 marks)
 - 1.5. Describe the procedure for preparing the components mentioned in 1.3 from a pack of whole blood. (30 marks)

2.
 - 2.1. What is meant by ABO discrepancy? (10 marks)
 - 2.2. List **three** common technical errors that may lead to discrepancies. (10 marks)
 - 2.3. Describe the procedures to be followed for quality control of blood grouping reagents. (30 marks)
 - 2.4. A 37-year-old mother presented with anemia (Hb-8.2 g/dl) and was positive for Indirect Coomb's Test (IAT) immediately after delivery. The newborn baby was found to be icteric (yellowish) with an elevated serum bilirubin level.
Describe the procedure for performing the IAT (indirect Coomb's test) based on its principle. (25 marks)
 - 2.5. What is the most probable disease condition manifested in 2.4 and explain the possible pathophysiology. (25 marks)