



**SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH
(A DEEMED TO BE UNIVERSITY)**
M.Sc. in Medical Laboratory Technology Semester-III Examination June 2026

Time: 3 Hrs.

[Max. Marks: 100]

**Clinical Hematology
Q.P Code: MA3331**

*Your answers should be specific to the questions asked.
Draw neat labelled diagrams wherever necessary.*

I. LONG ESSAYS

2x20=40

1. Define anemia, classify anemia according to their etiology. Write briefly about investigative approach in a case of anemia?
2. Define and classify leukemia's. Write FAB classification of acute leukemia's, write difference between myeloblast and lymphoblast.

II. SHORT ESSAYS

6x10=60

3. Classify thalassemia and discuss its pathogenesis. Lab diagnosis of β - thalassemia.
4. Write about differential diagnosis of macrocytic anemia along with its pathogenesis, Lab diagnosis and special investigations.
5. Explain about the Hemoglobin electrophoresis, Schilling test and Osmotic fragility test
6. Causes and laboratory diagnosis of pancytopenia
7. Write about haemoglobin and various methods of haemoglobin estimations.
8. Classification of Myelodysplastic syndrome. Explain in detail about acute myeloid leukemia



SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH
(A DEEMED TO BE UNIVERSITY)

M.Sc. in Medical Laboratory Technology Semester-III

Examination June -2026

Time: 3 Hrs.

[Max. Marks: 100]

Blood Transfusion

Q.P Code: MA3341

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

I. LONG ESSAYS

2X20=40 Marks

1. Name blood components that are prepared in blood bank. Write about preparation, storage, indication for use of blood components.
2. Discuss organisation of blood bank. Describe various quality control measures used in Blood bank.

II. SHORT ESSAYS

6X10=60 Marks

3. Discuss various blood grouping systems. Add a note on Bombay blood group.
4. Methods of cross matching and techniques.
5. Indications and contraindications for blood transfusion. Explain in detail adverse reaction of blood transfusion.
6. Define apheresis and explain the procedure, indication and methods of apheresis.
7. Discuss about Collection of blood in blood banking. Add a note on Changes in stored Blood.
8. Discuss in detail about Donor selection and selection of collection bags.