



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

**M.Sc. Medical Laboratory Technology (Semester-I)**

September 2023 Examination

[Max. Marks :100]

Time : 3 Hrs.

Sec-A

50 Marks

Clinical Biochemistry

**Q.P Code : M1015**

*Your answers should be specific to the questions asked.*

*Draw neat labelled diagrams wherever necessary.*

**LONG ESSAY**

**1 X 20 = 20 Marks**

1. Define Enzymes and classify them with suitable examples. Give 2 theories proposed for explaining enzyme activity. How is enzyme activity calculated? (2+8+5+5)

**SHORT ESSAY**

**3X 10 = 30 Marks**

3. Explain procedure for GTT, with its indications and contraindications
4. Describe general structure of Lipoproteins. Give their site of formation , normal range and clinical significance
5. List plasma proteins with normal range and functions. Name 5 acute phase proteins with clinical significance.

Sec-B

50 Marks

**Biomedical Techniques & Laboratory Management**

**Q.P Code :M1016**

**LONG ESSAY**

**1 X 20 = 20 Marks**

1. Define Electrophoresis and give its principle. List the different types with their applications. Explain in detail about Paper electrophoresis.(5+5+10)

**SHORT ESSAY**

**3X 10 = 30 Marks**

3. Give the principle, biomedical applications of Ion selective electrode and Flame photometry.
4. Explain briefly about Laboratory safety management.
5. Give the principle, procedure and applications of Paper chromatography.

\* \* \*



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

**M.Sc. Medical Laboratory Technology (Semester-I)**  
**September 2023 Examination**

**Time : 3 Hrs.**

**[Max. Marks :100]**  
**50 Marks**

**Sec-A**  
**Hematology**  
**Q.P Code : M1035**

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

**LONG ESSAY**

**1 X 20 = 20 Marks**

1. Define anemia. Describe morphologic and etiologic classification anemia and laboratory diagnosis of megaloblastic anemia

**SHORT ESSAY**

**3X 10 = 30 Marks**

2. Describe the clinical features and laboratory findings in chronic lymphocytic leukemia
3. Describe the Cytochemistry in leukemia
4. Describe the laboratory diagnosis in multiple myeloma

**Sec-B**

**50 Marks**

**Clinical Pathology & Immunopathology**

**Q.P Code :M1036**

**LONG ESSAY**

**1 X 20 = 20 Marks**

1. Describe the procedure and need for crossmatching. Describe the transfusion reactions

**SHORT ESSAY**

**3X 10 = 30 Marks**

2. Describe the Type 1 hypersensitivity reaction
3. What is Glycosuria. Mention any 2 causes
4. Describe the Stool examination