



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

M.Sc. Medical Laboratory Technology Semester-I

May 2025 Examination

Time: 3 Hrs.

[Max. Marks: 100]

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 Diabetes mellitus. Explain how insulin deficiency results in Diabetes mellitus. Which are the basic laboratory investigations for its diagnosis? What are the common pre-analytical errors during sample collection? (2+8+10)

SHORT ESSAY

3X 10 = 30 Marks

2. Describe briefly the digestion and absorption of Lipids
3. What is Microalbuminuria and glycosylated Haemoglobin? Give their clinical significance
4. List the factors affecting enzyme activity. Explain 4 factors with suitable graphs (2+8)

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. List the applications and limitations of each type of electrophoresis.(5+5+10)

SHORT ESSAY

3X 10 = 30 Marks

2. What is centrifugation technique? What are the parts of a centrifuge? Briefly explain density gradient centrifugation and its applications.
3. Define Chromatography. Give the principle and applications of Ion exchange and Partition chromatography
4. Define Radioactivity. How is it measured? List 5 applications of radioactive isotopes in medicine

*** * ***