



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

M.Sc. Medical Laboratory Technology

First Year (Semester-I) November 2024 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 Enzymes and give the characteristics of active site. What are the various factors affecting enzyme activity. Illustrate with suitable graphs. Name 5 diagnostic enzymes with their normal range.(5+10+5)

SHORT ESSAY

3X 10 = 30 Marks

1. Describe briefly the role of Hormones in maintaining blood glucose homeostasis.
2. Define Lipoproteins. Give their site of synthesis and functions. Briefly explain 2 methods for separation of Lipoproteins.
3. List 5 biomedical functions of Plasma proteins. Taking Haemoglobin as an example briefly explains how primary structure affects biological activity of Protein.

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. Explain in detail about PAGE electrophoresis.(5+5+10)

SHORT ESSAY

3X 10 = 30 Marks

1. Give the principle, biomedical applications of Ion selective electrode and Flame photometry.
2. Define Chromatography. Give the principle and procedure of Paper chromatography
3. Give the principle, procedure and applications of Atomic absorption spectrometry

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