



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

M.Sc. Medical Laboratory Technology (Semester-I)
April 2024 Examination

[Max. Marks :100]

Time : 3 Hrs.

Sec-A
Clinical Biochemistry
Q.P Code: M1015

50 Marks

*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

2. Explain procedure for GTT, with its indications and contraindications
3. Describe general structure of Lipoproteins. Give their site of formation , normal range and clinical significance
4. 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. 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 Ultra centrifugation and its applications.
3. Define Chromatography. Give the principle and applications of and HPLC.
4. Give the principle, procedure and applications of Paper chromatography.

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50 Marks

Sec-A
Clinical Microbiology
Q.P Code: M1025

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LONG ESSAY

1 X 20 = 20 Marks

1. Describe the causative agent, mode of transmission ,pathogenesis and laboratory diagnosis of Gonorrhoea

SHORT ESSAY

3X 10 = 30 Marks

2. Describe the various culture media used in diagnostic bacteriology
3. Describe the clinical features, pathogenesis and laboratory diagnosis of tetanus
4. Describe the clinical features and laboratory diagnosis of Diphtheria

Sec-B

50 Marks

Immunology
Q.P Code :M1026

LONG ESSAY

1 X 20 = 20 Marks

1. Describe different types of immunity . Describe the mechanism of acquired immunity and explain the different types with examples.

SHORT ESSAY

3X 10 = 30 Marks

2. Classify Autoimmune diseases . Describe the pathogenesis of Autoimmune diseases
3. Describe the modes of transmission of infection
4. Explain the mechanism and application of Agglutination reaction



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Sec-A

50 Marks

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 leukemia. Discuss the pathogenesis and phases and peripheral blood / bone marrow findings in Chronic myeloid leukemia.

SHORT ESSAY

3X 10 = 30 Marks

2. Describe about Hematocrit – Procedure and interpretation
3. Discuss about Hemoglobin electrophoresis - Indications and interpretation.
4. Describe the laboratory investigations and clinical features in iron deficiency anemia

Sec-B

50 Marks

Clinical Pathology & Immunopathology

Q.P Code :M1036

LONG ESSAY

1 X 20 = 20 Marks

1. Describe the indications of blood transfusion and list the various components with uses. Write a note on transfusion transmitted infections.

SHORT ESSAY

3X 10 = 30 Marks

2. Describe the Stool examination
3. Describe the Ketonuria and its causes
4. Describe the etiopathogenesis of Erythroblastosis Fetalis

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