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

M.Sc. Medical Laboratory Technology Semester-III
May 2025 Examination

Time: 3 Hrs. **[Max. Marks: 100]**

CLINICAL HEMATOLOGY

Q.P Code: M3070

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

LONG ESSAY **2 X 20 = 40 Marks**

1. Define and classify chronic myeloproliferative disease. Write clinical features and lab diagnosis of chronic myeloid leukemia.

2. Define anemia. Write in detail about morphological & etiological classification of anemia. Add a note on clinical features & lab investigations in megaloblastic anemia.

SHORT ESSAY **6X 10 = 60 Marks**

3. Describe the lab diagnosis of sideroblastic anemia.
4. Enumerate the causes and describe the pathogenesis of Anemia of chronic disease.
5. Describe in detail the classification and laboratory diagnosis in polycythemia.
6. Classify acute myeloid leukemia according to FAB classification and describe laboratory features of acute myeloid leukemia
7. Enumerate the indications of bone marrow examination
8. Define and discuss the etiology and laboratory diagnosis of Aplastic anemia.

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M.Sc. Medical Laboratory Technology Semester-III
May 2025 Examination

Time: 3 Hrs. **[Max. Marks: 100]**

Blood Transfusion
Q.P Code: M3080

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

LONG ESSAY **2 X 20 = 40 Marks**

1. Discuss the types of blood bags. Describe the anticoagulants presents in blood bags and its advantage. Enumerate the methods taken to preserve blood bags?
2. Discuss the criteria to select donor selection. Explain the methods of Blood collection and post donation care

SHORT ESSAY **6X 10 = 60 Marks**

3. Describe direct coombs test and its clinical importance.
4. Describe quality control used in blood grouping
5. Discuss about Hemolytic disease of new born.
6. Explain the methods of blood grouping - Forward grouping, reverse grouping and Du testing
7. Discuss the methods for preparations of pooled cells.
8. Define Apheresis and types & methods of Apheresis

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M.Sc. Medical Laboratory Technology (M.Sc. MLT)

Semester – III May 2025 Examination

Time: 3.00 Hrs. **[Max. Marks: 100]**

Paper -I

Microbiology: Systemic Bacteriology & Immunology

Q.P. Code: M3431

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

Long Essay **2 X 20 = 40 Marks**

1. Classify Streptococci. Name the suppurative lesions caused by Streptococcus pyogenes and describe their laboratory diagnosis. Add a note on the non suppurative lesions caused by Streptococcus pyogenes

2. Enumerate antigen antibody reaction .Describe the principle and diagnostic application of ELISA with suitable examples.

Short Essay **6 X 10 = 60 Marks**

3. Describe the laboratory diagnosis of Syphilis
4. Laboratory Diagnosis of Urinary tract Infection.
5. Laboratory diagnosis of Cholera.
6. Describe the structure and biological functions of IgG
7. Innate immunity
8. Classify autoimmune diseases .Describe the pathogenesis of autoimmune diseases

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M.Sc. Medical Laboratory Technology (M.Sc. MLT)

Semester – III May 2025 Examination

Time: 3.00 Hrs. **[Max. Marks: 100]**

Paper -II

Microbiology: Virology and Mycology

Q.P. Code: M3432

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

Long Essay 2 X 20 = 40 Marks

1. Describe the morphology, pathogenesis & laboratory diagnosis of Influenza virus
2. Describe the predisposing factors, clinical manifestations, species, laboratory diagnosis of Cryptococosis

Short Essay 6 X 10 = 60 Marks

3. Describe the pathogenesis and laboratory diagnosis of Dengue fever.
4. Describe the clinical features and laboratory diagnosis of Herpes simplex virus.
5. Pathogenesis and laboratory diagnosis of Rabies.
6. Describe the laboratory diagnosis of HIV.
7. Serological Markers of Hepatitis B infection.
8. Describe the microscopic morphology of three Aspergillus species and infections caused by them.

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