



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

M.Sc. Medical Laboratory Technology (Semester-III)
March 2024 Examination

[Max. Marks :100]

Time : 3 Hrs.

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. Describe the role of automation in hematology laboratory. Discuss the principle of automated blood cell counter. Enumerate various parameters obtained from blood cell counter.
2. Define and classify leukemia, describe its clinical features, pathogenesis and lab diagnosis of acute leukemia

SHORT ESSAY

6X 10 = 60 Marks

3. Discuss about anticoagulants used in hematology
4. Classify hemolytic anemia and its characteristic laboratory features
5. Define and classify myelodysplastic syndrome
6. Describe the lab diagnosis of sickle cell anemia.
7. Discuss the causes and diagnosis of normocytic normochromic anemia.
8. Enlist the indication for bone marrow biopsy and aspiration

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M.Sc. Medical Laboratory Technology (Semester-III)

March 2024 Examination

[Max. Marks :100]

Time : 3 Hrs.

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. Enlist different transfusion reaction. Describe investigation done to transfusion reactions
2. Describe various techniques for the ABO blood grouping in detail

SHORT ESSAY

6X 10 = 60 Marks

3. Describe Major and Minor cross matching. Add a note on Du test and its importance
4. Define Apheresis and types & methods of Apheresis
5. Discuss the anticoagulants used in blood bank with its mechanism of action.
6. Explain briefly the Transfusion transmitted diseases and their investigations
7. Discuss about Quality control in blood bank
8. Describe the preparation of pooled cells

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