

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

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

Second Year (Semester-III)

February-2019 Examination

Time: 3.00 Hrs

[Max. Marks: 100]

Paper-I

Clinical Hematology

Q.P. Code: M3070

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

2x10=20 Marks

1. Define and classify chronic myeloproliferative disease. Write clinical features and lab diagnosis of chronic myeloid leukemia.
2. Define anaemia. Write in detail about morphological & etiological classification of anemia. Write etiology clinical features & lab investigations in megaloblastic anemia.

SHORT ESSAY

5X10=50 Marks

3. Lab diagnosis of sideroblastic anemia.
4. Causes and pathogenesis anemia of chronic disease.
5. Classification and laboratory diagnosis in polycythemia.
6. Causes of Aplastic anemia.
7. WHO and FAB classification of acute lymphoid leukemia.
8. Role of peripheral smear in diagnosing specific type of anemia.
9. Romanowsky stains.
10. Laboratory diagnosis of Alpha-thalassemia.
11. Cyanmethemoglobin estimation.
12. Indications of bone marrow examination.

SHORT ANSWERS

3X10=30 Marks

13. Three methods of ESR estimation.
14. Vacutainers.
15. Three causes of round microcytes.
16. Poikilocytosis.
17. Three causes of lymphocytosis.
18. M spike.
19. Copper sulphate method to estimate hemoglobin.
20. Spherocyte.
21. Ring sideroblast.
22. Sucrose lysis test.

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Paper-II

Blood Transfusion

Q.P. Code: M3080

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAYS

2x10=20 Marks

1. Write various blood group system? Write in detail about ABO blood group system under the heading 'inheritance of subgroups and methods of blood grouping.'
2. Write about Donor selection and method of Blood collection, write briefly about post donation care.

SHORT ESSAY

5x10=50 Marks

3. Write about coombs test and its importance
4. Preparation, storage and indication for packed red cells
5. Anticoagulants used in blood bank with its mechanism of action on blood
6. Define Apheresis and types & methods of Apheresis
7. Classification of blood transfusion reaction
8. History of blood transfusion
9. MNS blood group system and its clinical significance
10. Changes in stored blood
11. Preparation, storage and indication for cryoprecipitate
12. Methods of cross matching techniques

SHORT ANSWERS

3x10=30 Marks

13. Antigens in Rh blood group system
14. Name three infections transmitted through blood transfusion
15. Types of blood donors
16. DU test
17. Secretors and non secretors
18. Genetics of Bombay blood group
19. Grading's of blood group reaction
20. Thawing
21. Quality control of ABO reagents
22. Types of blood bags

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