



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

M.Sc. Medical Laboratory Technology (Semester-IV)
November 2023 Examination

Time : 3 Hrs.

[Max. Marks :100]

Hematology

Q.P Code : M4090

*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 enlist the causes of thrombocytopenia. Discuss the classification, pathogenesis, bone marrow findings and laboratory diagnosis of Immune thrombocytopenic purpura (ITP). (2+3+2+3+5+5)
2. Define and classify hemostasis. Discuss the causes, pathogenesis, clinical features and laboratory diagnosis disorders of fibrinolysis . (2+5+2+3+3+5)

SHORT ESSAY

6X 10 = 60 Marks

3. Discuss the types, pathogenesis and laboratory diagnosis of Von will brand's disease
4. Discuss the etiopathogenesis and laboratory Investigations in Antiphospholipid antibody syndrome
5. Discuss the laboratory diagnosis of disorders vascular and platelet function.
6. Discuss automation in hematology
7. Discuss the role of Philadelphia Chromosome in leukemia. Describe the tests done to diagnose Philadelphia chromosome.
8. Discuss quality control in hematology

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M.Sc. Medical Laboratory Technology (Semester-IV)
November 2023 Examination

[Max. Marks :100]

Time : 3 Hrs.

Blood Transfusion

Q.P Code : M4100

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 role of Apheresis in exchange transfusion. Enlist the indications. Describe procedure, technique, complications of exchange transfusion
2. Describe the methods of component separation. Discuss the indications, quality control of various components prepared in blood center. (5+10+5)

SHORT ESSAY

6X 10 = 60 Marks

3. Enlist the infections that can be transmitted through blood and blood products. Describe about morphology, pathogenesis, and laboratory diagnosis of HCV virus. (2+2+2+4)
4. Discuss the differences between ABO incompatibility and Rh incompatibility of new born.
5. Enlist the waste generated in blood bank. How do you dispose this biomedical waste.
6. Discuss the steps in organising blood donation camps.
7. Discuss various methods of blood grouping
8. Discuss the types of blood bags and anticoagulants used in blood center

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