

# Rajiv Gandhi University of Health Sciences

## First Year M.Sc. (MLT) Degree Examination - OCT-2019

[Time: 3 Hours]

[Max. Marks: 100]

### **Haematology and Blood Transfusion – I**

#### **(Revised Scheme – 2)**

**Q.P. CODE: 9813**

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary.

#### **Section A and section B are to be written in same Answer Book**

#### **Section A – Haematology and Clinical Pathology [50 marks]**

##### **LONG ESSAY**

**1 X 20 = 20 Marks**

1. Classify Acute Myeloid Leukemia according to FAB classification. Mention various cytochemical stains and their applications in diagnosis of Leukemias. List out the lab investigations in acute leukemias.

##### **SHORT ESSAY (Attempt any six)**

**6 X 5 = 30 Marks**

2. Describe grading and various tests used to detect proteinuria.
3. Hemoglobin Electrophoresis – principle and clinical applications.
4. CSF analysis in Meningitis
5. Thalassemia – pathogenesis and blood picture
6. Describe principles of automated hematology analyser.
7. Discuss stool examination.
8. Bone marrow aspiration procedure and preparation of bone marrow smears
9. Sickle cell anemia

#### **Section B – Immunopathology and Medical Genetics [50 marks]**

##### **LONG ESSAY**

**1 X 20 = 20 Marks**

10. Discuss modes of infection pathogenesis, stages and CD4 count in AIDS. Add a note on opportunistic infections in AIDS.

##### **SHORT ESSAY (Attempt any six)**

**6 X 5 = 30 Marks**

11. Autoimmune haemolytic anemia – types and diagnosis
12. Pretransfusion testing of blood
13. Diagnosis of Systemic Lupus Erythematosus (SLE)
14. Type I hypersensitivity reactions
15. Bombay blood grouping
16. HLA typing
17. Down's syndrome
18. Diagnosis of transfusion transmitted diseases in blood bank

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