

## HEMATOLOGY

### PAPER – I

Time :3 hours  
Max. Marks :100

HEMA/D/10/48/1

Attempt all questions in order.  
Each question carries 10 marks.

Write short notes on:

1. Hpcidin.
2. Hepain induced thrombocytopenia.
3. Microarray in Hematology.
4. Targeted therapy.
5. Stem cell plasticity.
6. Stress cytogenetics.
7. Molecular techniques in Hematology.
8. Tests for PNH detection.
9. Flow cytometry for acute leukemia
10. Give therapy for hemophilia.

## HEMATOLOGY

### PAPER – II

Time : 3 hours  
Max. Marks : 100

HEMA/D/10/48/2

Attempt all questions in order.  
Each question carries 10 marks.

Write short notes on:

1. Mixed phenotypic acute leukemia.
2. Down's syndrome related acute leukemias.
3. JAK 2 mutation.
4. 5q- Syndrome.
5. Diagnosis of hairy cell leukemia.
6. Gleevac resistance in CML.
7. ISTH scoring of DIC.
8. Congenital dyserythropoetic anemia.
9. Prenatal diagnosis of beta homozygous thalassemia.
10. Warfarin resistance.

## HEMATOLOGY

### PAPER – III

Time : 3 hours  
Max. Marks : 100

HEMA/D/10/48/3

Attempt all questions in order.  
Each question carries 10 marks.

Write short notes on:

1. Lab findings in anemia of chronic disorder.
2. Diagnostic criteria for multiple myeloma.
3. HbQ India.
4. Hypereosinophilic syndrome.
5. Risk stratification of ALL.
6. Cytogenetically normal AML.
7. Diagnostic approach to VWD.
8. International Normalized Ratio.
9. Levy Jenning Charts in Hematology.
10. Plasma derived products in management of patients with hematological disorders.