

D.M. – CLINICAL HAEMATOLOGY

**Paper I – STRUCTURE AND FUNCTION OF THE HEMOPOIETIC
SYSTEM MOLECLULAR BIOLOGY AND GENETIC
ASPECTS OF HAEMOPOIESIS**

Q.P.Code: 161401

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on: **(2 x 15 = 30)**

1. Discuss lymphoid ontogeny with reference to development of T cells and their role in immune response.
2. Describe platelet structure and the role of the platelet in primary hemostasis.

II. Write notes on: **(10 x 7 = 70)**

1. Hepcidin.
2. Immunoglobulin gene re-arrangement.
3. Tyrosine Kinases.
4. Fibrinogen.
5. CD34 antigen.
6. Structure of hemoglobin.
7. Transcription factors.
8. Mesenchymal stromal cell.
9. Role of Vitamin B12 in hematopoiesis.
10. The Natural Killer cell.
