

D.M. – CLINICAL HAEMATOLOGY

**Paper I – BASIC SCIENCES – STRUCTURE AND FUNCTION OF
HAEMOPOIETIC SYSTEM, MOLECULAR BIOLOGY AND
GENETIC ASPECTS OF HAEMOPOIESIS**

Q.P. Code: 161401

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Mention the structure and function of von Willebrand factor and its role in pathogenesis of Thrombotic thrombocytopenic purpura. Discuss the laboratory evaluation of TTP.
2. Discuss the molecular pathogenesis of APML. Mention briefly the risk categorization and the common drugs used in treatment of APML.

II. Write notes on:

(10 x 7 = 70)

1. Role of apheresis in management of hematological disorders.
2. Basic defects in PNH and laboratory tests that help in evaluation of those defects.
3. Molecular and genetic aspects of Fanconi anemia.
4. Angiogenesis and its role in hematological disorders.
5. Minimal residual disease.
6. Unstable haemoglobins.
7. Induced Pluripotent stem cells.
8. Flow cytometry in non malignant haematological diseases.
9. Physiological regulators of coagulation process.
10. Prognostic scoring systems in myeloproliferative neoplasm.
