

(LR 064)

NOVEMBER2020
(AUGUST 2020 SESSION)

Sub. Code: 1401

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 the normal process of thrombopoiesis, its cytokine regulation and how drugs are used to stimulate thrombopoiesis.
2. Discuss the components of the hematopoietic stem cell niche and its role in stem cell mobilization.

II. Write notes on:

(10 x 7 = 70)

1. Alternate splicing
2. Phagocytosis
3. Dendritic cell
4. GATA 1
5. Prognostic significance of somatic mutations in myelodysplastic syndrome
6. T regulatory cells
7. Natural killer cells
8. Chronic neutrophilic leukemia
9. Fibrinolytic system
10. Mesenchymal stromal cells
