

**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[DM 0822]**

**AUGUST 2022**

**Sub. Code :1404**

**D.M. – CLINICAL HAEMATOLOGY**

**Paper IV – RECENT ADVANCES IN HAEMATOLOGY**

***Q.P. Code: 161404***

**Time: Three Hours**

**Maximum: 100 Marks**

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

1. Discuss the concept of CAR-cells and the currently available products for haematological disorders.
2. Discuss the recent advances in the management of myelodysplastic syndromes.

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

1. Gene therapy for sickle cell disease.
2. Pacritinib.
3. Minimal residual disease assessment in multiple myeloma.
4. Immune cell therapy for viral infections.
5. Emicizumab.
6. Gene editing for haematological disorders.
7. Cell free DNA for diagnosis in haematological disorders.
8. Clonal haematopoiesis.
9. Advances in the diagnosis and risk stratification of chronic lymphocytic leukemia.
10. Nextgen sequencing approach to diagnosis of haematological disorders.

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