

HEMATOLOGY
PAPER-II

HEM/D/17/48/II

Time : 3 hours
Max. Marks :100

- Attempt all questions in order.
- Each question carries 10 marks.
- Read the question carefully and answer to the point neatly and legibly.
- Do not leave any blank pages between two answers.
- Indicate the question number correctly for the answer in the margin space
- Answer all the parts of a single question together.
- Start the question to a question on a fresh page or leave adequate space between two answers.
- Draw table/diagrams/flowcharts wherever appropriate.

Write short notes on:

- Neutrophil function tests
 - Chediak Higashi syndromes
 - Granulocyte transfusions4+3+3
- Management of idiopathic hypereosinophilic syndrome
 - Role of PDGFR α in hypereosinophilia
 - Acquired eosinophilia3+4+3
- Diagnosis of systemic mastocytosis
 - Granules of basophils
 - Causes of basophilia in peripheral blood.4+3+3
- Diagnosis of chronic myelomonocytic leukemia (CMML).
 - How does it differ from MDS with excess blasts?
 - Management of CMML
 - Infections causing monocytosis.3+2+3+2
- Histomonophagocytic Syndrome:
 - What are the causes?
 - Criteria for diagnosis
 - Langerhan's cell histiocytosis.3+4+3
- Chronic lymphocytic leukemia:
 - Diagnosis of CLL
 - How to distinguish it from monoclonal B lymphocytosis.
 - The genetic landscape of CLL and the implications in prognosis.
 - Current management of CLL2+1+3+4

7. Plasma cells: 4+4+2
- a) What are the imaging techniques for the diagnosis of bone disease in multiple myeloma and their advantages/disadvantages?
 - b) Criteria for the diagnosis of multiple myeloma, smoldering multiple myeloma and MGUS.
 - c) How to differentiate between multiple myeloma and lymphoplasmacytic lymphoma?
8. a) What is hemovigilance? 5+5
- b) How will you implement this in blood bank?
9. a) Risk stratification in MDS 5+5
- b) Treatment options in low risk MDS
10. a) Acquired causes of thrombocytosis 2+4+4
- b) JAK 2 pathway and its inhibitors in myeloproliferative neoplasms
- c) Management of essential thrombocythemia
