

HEMATOLOGY

PAPER-II

Time: 3 hours
Max. Marks: 100

HEMAT/D/19/48/II

Important Instructions:

- 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 answer to a question on a fresh page or leave adequate space between two answers.
- Draw table/diagrams/flowcharts wherever appropriate.

Write short notes on:

1. a) Cytokine regulations of granulocytic progenitors. 4+3+3
b) Functions of Neutrophil.
c) Treatment of severe congenital neutropenia.
2. a) Pathogenesis of bone disease of myeloma. 3+3+4
b) Early vs Late ASCT in myeloma- Pros & Cons.
c) New drugs in the pipeline for the treatment of myeloma.
3. a) What are the different carbohydrate blood groups? 3+3+4
b) Biochemical changes associated with Red Blood cell storage.
c) Nucleic acid testing (NAT) - Role in hematology.
4. a) Adverse effects of Platelet transfusion. 3+3+4
b) Diagnosis of platelet refractoriness.
c) What are the platelet selection guidelines for platelet refractoriness?
5. a) WHO Classification of different mast cell disorders. 3+4+3
b) Treatment options of systemic mastocytosis.
c) Mast cell activation syndrome.
6. a) Complications of haploidentical Stem cell transplantation (SCT). 3+3+4
b) Results of unrelated SCT in aplastic anemia.
c) Properties of T reg cells.
7. a) Treatment of hyperkalemia. 3+3+4
b) Time dependent management of Febrile neutropenia.
c) Infections following stem cell transplant – at different times and types.

P.T.O.

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8. a) Acute eosinophilic Leukemia. 3+3+4
b) Newer treatment options for hypereosinophilic syndrome.
c) Regulations of functions of Eosinophil.
9. a) How to evaluate cytopenias in HIV infected person? 3+2+2+3
b) Outline the management of thrombotic thrombocytopenic purpura with HIV infection.
c) Diagnosis of Hepatic coagulopathy.
d) Treatment of anemia with chronic kidney diseases.
10. a) What are the different functions of spleen? 4+3+3
b) Treatment of hypersplenism.
c) Vascular complications after splenectomy.
