

HEMATOLOGY
PAPER-II

HEMAT/J/18/48/II

Time: 3 hours
Max. Marks:100

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. Waldenstrom macroglobulinemia: 4+3+3
 - a) Describe the pathogenesis and clinical presentation.
 - b) Describe the molecular pathology.
 - c) Outline the management.
2. Mast cell disorders: 5+5
 - a) Enumerate the conditions included in the WHO Classification.
 - b) Diagnostic algorithm of mast cell proliferation including molecular testing.
3. Plasmapheresis: 5+5
 - a) Describe the procedure.
 - b) Which are the hematological conditions where this procedure is used?
4. Transfusion reactions: 4+3+3
 - a) Describe the clinical presentation of an acute transfusion reaction.
 - b) How do we evaluate the cause of transfusion reaction?
 - c) Management protocol of patient with acute transfusion reaction.
5. Hemophagocytic lymphohistiocytosis(HLH): 4+3+3
 - a) What are the diagnostic criteria and investigations required?
 - b) Which are the clinical condition which are associated?
 - c) Outline the management.
6. Approach to a patient with massive splenomegaly: 5+5
 - a) Enumerate benign and malignant disorders.
 - b) Describe the diagnostic algorithm in a child versus an elderly patient.
7. Hairy cell leukemia: 5+5
 - a) Describe the clinical and hematological findings.
 - b) Describe the management and follow up strategy.

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8. BRAF mutations: 5+5
a) Which are the conditions where the molecular defect can be encountered?
b) Describe the diagnostic methodologies which can be used.
9. Graft versus host disease (GVHD): 4+3+3
a) What are the differences between acute and chronic GVHD?
b) How do we grade GVHD?
c) Outline the management of GVHD.
10. Platelet transfusions: 5+5
a) What are the precautions exercised while processing blood for platelet storage?
b) What are the clinical conditions where platelets are transfused?
