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FINAL EXAM JUNE 2018 NATIONAL BOARD OF EXAMINATIONS

HEMATOLOGY PAPER-III

HEMAT/J/18/48/III

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.	Minimal residual disease (MRD): a) What is the basis of MRD? b) How does monitoring of MRD in acute leukemia guide the management?	5+5
2.	Describe the uses of flow cytometry: a) In benign haematological disorders. b) In classifying chronic lymphoproliferative disorders.	5+5
3.	 Autologous stem cell transplantation: a) Describe the procedure. b) Enumerate differences from allogenic stem cell transplantation. c) Clinical conditions where this procedure is being used. 	3+3+4
4.	 Targeted therapies: a) Which are the hematological conditions where it is in clinical use? b) Describe monitoring of patients in any one condition in clinical use. 	5+5
5.	Next Generation Sequencing (NGS) for Acute Myeloid Leukemia: a) Describe the advantages. b) Which molecular changes have prognostic significance?	5+5
6.	 Non-Hodgkin's lymphoma (NHL): a) Briefly classify the NHLs as per the WHO Classification 2016. b) What are the diagnostic tests performed in a patient to stage the disease? c) How is the management monitored on follow up? 	4+4+2
7.	Hemophilia A and B: a) What is prophylactic therapy? b) How is an acute major joint bleed managed? c) Carrier detection in hemophilia A.	3+4+3
		P.T.O.



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8.	Secondary hematological malignancies:a) Describe the conditions associated.b) Prognosis and management issues which need to be addressed.	5+5
9.	Conditioning regimens for allogenic bone marrow transplantation: a) Enumerate the differences between benign and malignant disorders. b) Peripheral versus bone marrow harvesting.	5+5
10.	Chemotherapeutic drugs used in acute lymphoblastic leukemia (ALL): a) Describe the principles of chemotherapeutic drugs being	5+5

b) Describe the common toxicities encountered with drugs

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used in induction phase.

used in ALL induction.