

: 3 hours

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Time

Max. Marks: 100

NATIONAL BOARD OF EXAMINATIONS

PATHOLOGY

PAPER -II

PATHO/J/13/32/II

Attempt all questions in order. Each question carries 10 marks.			
	1.	Define and classify anemia of chronic disease. What is it pathogenesis and management.	5+5
	2.	Classify immune hemolytic anemia. Discuss the pathogenesis of warm and cold antibody type autoimmune hemolytic anemias. Discuss in brief Immunologic tolerance.	1+4+5
	3.	Enlist various diseases under the category of chronic lympho-proliferative disorders. Give the role of flow-cytometry with the panel of markers required for diagnosis and detection of residual disease.	4+6
	4.	Discuss the principle behind the working of semi automated, fully automated and five part differential blood cell counters.	3+3+4
	5.	Describe and classify functional disorders of leukocytes. What are their clinico-pathologic features and diagnostic modalities?	5+5
	6.	Describe the diagnostic criteria for multiple myeloma and MGUS. What is monoclonal gammopathy of renal significance?	8+2
	7.	Give the diagnostic algorithm in a patient of bleeding disorder. What are the various qualitative platelet defects and how are they diagnosed?	6+4
	8.	Give the WHO classification of myeloproliferative neoplasms. Which are the molecular markers used for diagnosis of these disorders. Give the pathogenesis and morphology of primary myelofibrosis.	1+3+6
	9.	What is the role of nucleic acid testing (NAT) laboratory in Transfusion Medicine? Discuss in brief Hemolytic Transfusion Reactions.	5+5
	10.	How will you diagnose a case of acute myelomonocytic leukemia? Discuss the prognostic factors of acute lymphoblastic leukemia.	5+5
