PATHOLOGY
PAPER –II

Time : 3 hours
Max. Marks : 100

Attempt all questions in order.
Each question carries 10 marks.

1. Define and classify anemia of chronic disease. What is its 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

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