

PATHOLOGY PAPER - IV

PATH/J/14/32/IV

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 note on:

1.	What are the various red cell indices measured by automated hematology analyzers? What is their role in evaluation of anemia?	5+5
2.	Describe the ISTH criteria for diagnosis and laboratory investigations for diagnosis of anti-phospholipid syndrome (APLA).	5+5
3.	a) Hematologic manifestations of HIV infection b) Transfusion associated GVHD	5+5
4.	Describe the clinicopathologic spectrum, immune response and laboratory diagnosis of Epstein Barr Virus infection.	3+3+4
5.	a) Blast equivalents in diagnosis of acute leukemiasb) Molecular pathogenesis of β-thalassemia	5+5
6.	a) Pathogenesis and laboratory diagnosis of Paroxysmal Nocturnal Hemoglobinuria (PNH) b) Pure red cell aplasia	5+5
7.	Enumerate chronic lymphoproliferative disorders. Discuss the role of morphology and immunophenotyping in diagnosing these cases.	3+7
8.	a) Nucleic acid technology in blood donor screening b) Hemovigilance	5+5
9.	a) Congenital morphological anomalies of leukocytes b) Platelet function disorders	5+5
10.	a) N K cell lymphoma b) Prognostic factors in acute lymphoblastic leukemia	5+5
