

PATHOLOGY

PAPER – IV

PATH/J/15/32/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 notes on:

1.	a) List the blood components available for clinical use and indications for their use. b) Donor selection and screening for allogenic blood transfusion.	6+4
2.	a) Etiopathogenesis and laboratory diagnosis of paroxysmal nocturnal hemoglobinuria (PNH). b) Hypereosinophilic syndrome.	6+4
3.	a) Various inherited bone marrow failure syndrome. b) Diagnostic criteria and prognostic factors of multiple myeloma.	5+5
4.	a) Cytogenetic abnormalities and molecular markers for diagnosis and classification of chronic myeloproliferative disorders. b) International Prognostic Scoring System (IPSS) for myelodysplastic syndrome (MDS).	6+4
5.	a) Various red cell indices measured by Automated Hematology Analyzers and their role in evaluation of anemia. b) Heparin induced thrombocytopenia.	7+3
6.	a) Red Cell Enzymopathies. b) Importance of iron stain in bone marrow examination.	6+4
7.	a) Carrier Detection of Hemophilia. b) Causes of Vitamin K deficiency in newborn infants. Give important manifestations and investigations in such cases.	4+6
8.	a) Automation in coagulation. b) Role of flow cytometry in diagnosis of chronic lymphoproliferative disorders.	5+5
9.	a) Preparation and uses of apheresis platelets. b) Hematological alterations in pregnancy.	5+5
10.	a) Molecular basis of mixed lineage leukemias. b) Role of flow cytometry in diagnosis of acute leukemias	5+5
