PATHOLOGY PAPER – IV

PATH/D/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) Blood cell substitutes. b) Immunological complications of transfusion.	5 5
2.	a) Neonatal sepsis – haematological and flow cytometric evaluation.b) Algorithm of diagnostic approach for purpuric bleeding.	5 5
3.	Trephine biopsy: a) Indications. b) Fixation and processing technique. c) Role of special stains and immunohistochemical markers. d) Reporting format.	2 2 3 3
4.	 a) Thromboelastography – uses & technique. b) Monoclonal Gammopathy of uncertain significance: diagnostic features. 	2+3 5
5.	 a) Large granular lymphocytic leukemia: diagnostic features and molecular changes. b) Peripheral blood and bone narrow findings in myelodysplastic syndromes. 	5 5
6.	a) Anemia of chronic disorders: definition and laboratory evaluation.b) Fluorescent staining patterns of antinuclear antibodies and their diagnostic significance.	1+4 5
7.	a) Screening for thalassemia syndromes.b) Chediak Higashi Syndrome.	5 5
8.	a) Acute Megakaryoblastic Leukemia. b) Congenital dyserythropoietic anemias	5 5
9.	a) Bernard Soulier Syndrome: Clinical features & lab diagnosis.b) Quality Control in automated haematology analyzers.	 2+3 5
10.	a) Hematopoietic Growth factors and their applications.b) Cryoprecipitates.	 5 5
