PATHOLOGY
PAPER - II

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) Give the diagnostic algorithm in a patient whose peripheral blood shows normocytic – normochromic anaemia
   b) Discuss the role of reticulocyte parameters. 5+5

2. a) List the indications for trephine biopsy.
   b) Discuss the morphological evaluation of trephine biopsy in myeloproliferative neoplasms.
   c) Add a note on the special stains to aid in evaluation. 2+5+3

3. a) Newer blood cell substitutes.
   b) Massive blood transfusion and its management. 6+4

4. a) Classification and diagnostic approach to primary immunodeficiency diseases.
   b) Type III Hypersensitivity reaction. 6+4

5. a) Describe the clinical and genetic classification of Thalassemia and its molecular pathogenesis.
   b) Coomb’s test. 7+3

6. a) How will you investigate a patient with thrombocytopenia?
   b) Describe the role of platelet aggregation studies in bleeding disorders. 5+5

7. a) Describe the spectrum of bone marrow failure syndrome and their inter-relationship.
   b) Laboratory diagnosis of paroxysmal nocturnal hemoglobinuria. 5+5

8. Describe lymphopoiesis. Describe the investigative approach for a patient showing lymphopenia. 5+5

9. Describe the investigations employed for assessing disorders of iron metabolism. Describe genetic basis of Haemochromatosis. 5+5

10. a) Describe the role of flow cytometry in the diagnosis of acute leukemia.
    b) Congestive splenomegaly. 7+3

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POSESSION / USE OF CELL PHONES OR ANY SUCH ELECTRONIC GADGETS IS NOT PERMITTED INSIDE THE EXAMINATION HALL.