

**PATHOLOGY**

**PAPER – IV**

PATH/D/16/32/IV

Time : 3 hours

Max. Marks : 100

**IMPORTANT INSTRUCTIONS**

- ***This question paper consists of 10 questions divided into Part 'A' and Part 'B', each part containing 5 questions.***
- ***Answers to questions of Part 'A' and Part 'B' are to be strictly attempted in separate answer sheet(s) and the main + supplementary answer sheet(s) used for each part must be tagged separately.***
- ***Answers to questions of Part 'A' attempted in answer sheet(s) of Part 'B' or vice versa shall not be evaluated.***
- *Answer sheet(s) of Part 'A' and Part 'B' are not to be tagged together.*
- *Part 'A' and Part 'B' should be mentioned only on the covering page of the respective answer sheet(s).*
- *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.*

**PART A**

**Write short notes on:**

1. a) Significance of Platelet Indices in clinical Hematology. 5+5  
b) Apheresis - Indications and techniques.
2. a) What are plasma cell dyscrasias? 3+7  
b) Outline the investigations for diagnosis of multiple myeloma.
3. a) Genetic basis of myelodysplasia. 5+5  
b) Laboratory criteria for diagnosis of antiphospholipid syndrome.
4. a) Enumerate causes of primary & secondary polycythemia 3+3+4  
b) Lab diagnosis of polycythemia  
c) Gel Card technique and its applications in transfusion medicine.
5. a) Pathogenesis of hereditary spherocytosis. 4+6  
b) Evaluation and diagnostic approach in a case of microcytic hypochromic anaemia.

**P.T.O.**