

NBA-20144

Seat No.

M. D. (Immunohaematology & Blood Transfusion) Examination

March / April - 2017

Paper - IV : Recent Advances in Immunohaematology & Blood Transfusion

Time: 3 Hours [Total Marks: 100]

Instructions: (1) Use blue/black point pen only.

- (2) Do not write anything on the blank portion of the question paper.
- (3) All questions are compulsory.
- (4) The number to the right indicates full marks.
- (5) Draw diagrams wherever necessary.
- 1 Long Answer Questions:

 $2 \times 25 = 50$

- (1) Stem cell types, harvesting techniques, preservation and indications of its use.
- (2) Molecular blood grouping, its applications and techniques.
- 2 Short Answer Questions: (any Five)

 $5 \times 10 = 50$

- (1) Gene therapy
- (2) TRALI
- (3) Frozen platelets
- (4) Blood substitutes
- (5) Donath Landsteiner technique
- (6) Pathogen inactivation technologies.

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