



MBM-20144

Seat No. _____

M. D. Examination

April / May - 2018

Immunohaematology &

Blood Transfusion : 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 : 2×25=50

- (a) Discuss the hemovigilance and hemovigilance programme in India. What are the latest developments.
- (b) Stem cell types, harvesting techniques, preservation and indications of its use.

2 Short answer questions : (any five) 5×10=50

- (1) Plasma fractionation
 - (2) Transfusion related acute lung injury
 - (3) Pathogen inactivation technologies
 - (4) Graft vs Host diseases
 - (5) Blood substitutes
 - (6) Donsth - Landrteiner technique
 - (7) Frozen platelets.
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