



NAV-20141

Seat No. _____

**M. D. (Immunohaematology & Blood Transfusion)
Examination**

March / April - 2017

**Paper - I : Basic Science Related to
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 side indicates full marks.
- (5) Draw diagrams wherever necessary.

1 Long Answer Questions : 2×25=50

- (1) Discuss the structure of red cell membrane. Discuss in detail red blood cell metabolism and preservation.
- (2) Discuss Complement system, methods of activation and the process involving the complement system in Transfusion Medicine.

2 Short Answer Questions : (any five) 5×10=50

- (1) Discuss Compatibility Testing in massive transfusion.
- (2) Pathophysiology of Hemolytic diseases of new born.
- (3) Describe causes, pathophysiology and Treatment of Disseminated Intravascular Coagulation.
- (4) Investigations in a patient of acute hemolytic transfusion reaction.
- (5) Iron Metabolism
- (6) Plasma volume expanders.