



DL-5122

Seat No. _____

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

March / April - 2022

**Applied Basic Science Related to
Immunohaematology and Blood Transfusion
Paper-I**

Time : 3 Hours]

[Total Marks : 100

- Instructions :**
- (1) Use blue/black point pen only
 - (2) The numbers to the write indicate full marks.
 - (3) Draw diagrams wherever necessary.

- 1** Describe iron metabolism in health. Discuss laboratory diagnosis of iron deficiency anaemia. What measures can be taken to prevent anaemia in blood donors ? **25**
- 2** Define and classify cytokines. Discuss role of cytokines in various areas of transfusion medicine. **25**
- 3** Write short notes on : (Any Five) **50**
 - (a) Pathogenesis and laboratory diagnosis of hemophilia
 - (b) Mendel's laws of inheritance
 - (c) Bio synthesis of blood group antigens
 - (d) Secondary immune responses, its significance in Transfusion medicine
 - (e) Pathophysiology of Paroxysmal Nocturnal Hemoglobinuria
 - (f) Pathophysiology of shock and role of various plasma expanders