



**BU-20141**

Seat No. \_\_\_\_\_

**M. D. Examination**

**March - 2021**

**Immunohaematology & Blood Transfusion**

**: Paper - I**

*(Basic Sciences 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 black portion of the question paper.
  - (3) All questions are compulsory.
  - (4) The number to the right indicate full marks.
  - (5) Draw diagrams wherever necessary.

- 1** Long answer question: **2×25=50**
- (A) Write in details about the genetics, structure and immunological basis of ABO blood group system.
  - (B) Describe the structure and functions of Immunoglobulins. Describe their role in various areas of transfusion medicine.
- 2** Short answer questions: (any five) **5×10=50**
- (A) Describe pathophysiology of hypovolemic shock.
  - (B) Cytokines.
  - (C) The Classic complement Pathway.
  - (D) Iron Metabolism.
  - (E) Mendelian theory of Inheritance.
  - (F) Rh null type.