



**BZ-20144**

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

**M. D. Examination**

**April - 2021**

***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 black 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: **50**
  - (A) Convalescent plasma therapy in COVID-19.
  - (B) Basic principle of flow cytometry and its role in transfusion medicine.
  
- 2** Short answer questions: (any **Five**) **50**
  - (A) Platelet derived biological products.
  - (B) Role of Thromboelastography in component therapy.
  - (C) Discuss various emerging infections threatening the blood safety.
  - (D) Micro array and its application in Transfusion Medicine.
  - (E) CAR-T cell therapy.
  - (F) Granulocyte concentrate.