Seat No. _____

HA-4571

D. M. L. T. Examination

April - 2023

Haematology, Immunohaematology & Blood : Paper - II

Time : **3** Hours / Total Marks : **100**

Instructions : (1) Figures to the right indicate full marks.
(2) Draw and label neat diagrams, where necessary.
(3) Write answers of Section I and II in separate answer books.

1 Write notes on any four : **32**

(a) Write etiological classification of anemia and discuss Iron Deficiency Anemia in detail.
(b) Name the various vaccuttes used for blood collection with their use and significance.
(c) Draw and describe cells of WBC maturation series and RBC maturation series.
(d) Discuss various coagulation tests done in haematology.
(e) Classify Leukemia and write about Acute Myeloid Leukemia (AML).

2 Answer in brief : **10**

(a) Name four parasites seen in peripheral smear.
(b) Mentzer's Index and its significance.
(c) Write in brief about Paroxysmal Nocturnal Hemoglobinuria (PNH).
(d) Enlist and draw four abnormal shapes of RBC.
(e) Tests done for diagnosis of G6PD deficiency.

3 Answer in brief : **08**

(a) Mention the peripheral smear findings in case of Megaloblastic anemia.
(b) Write down difference between Bone Marrow Aspiration and Biopsy.
(c) Name the parasites causing anemia.
(d) Write down normal value and staining method for Reticulocyte Count.

SECTION - II

4 Write short notes on any four : **32**

(a) Preparation, storage, shelf life and use of various blood components used in blood bank.

(b) Coomb's Test.

(c) Criteria for selection of a blood donor.

(d) Blood transfusion reaction (BTR).

(e) Quality Control (QC) in blood bank.

5 Write notes on any three : **18**

(a) Forward and Reverse Blood group.

(b) Anticoagulants and preservatives used for storage of blood in bloodbank.

(c) Rh blood group system with its clinical significance and test for detection of weak D (D^u).

(d) Write about Massive transfusion, Neonatal transfusion and Autologous transfusion.
