



MAN-4571

Seat No. _____

D. M. L. T. Examination

March / April - 2018

Haematology, Immunohaematology & Blood Banking

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.

SECTION - I

- 1** Write short notes on any four : **32**
 - (a) Various methods of Hemoglobin estimation.
 - (b) Hemoglobin electrophoresis.
 - (c) Difference between leukemoid reaction and leukemia.
 - (d) Classify anemia. Write causes and investigations in case of a hemolytic anemia.
 - (e) Types of vacutte used in blood collection for various tests in laboratory.

- 2** Answer in brief : **10**
 - (a) Contents of WBC diluting fluid with significance of each component.
 - (b) LE cell preparation.
 - (c) Peripheral smear (PS) findings in case of Megaloblastic anemia.
 - (d) Mentzer's Index.
 - (e) What is Absolute Eosinophil Count (AEC) and write causes of increased AEC.

- 3** Answer in brief : **8**
 - (a) Name four parasites seen in peripheral smear.
 - (b) Normal values of PT and aPTT.
 - (c) Name and draw four abnormal shapes of RBC.
 - (d) Full form of NESTROFT and its clinical significance.

SECTION - II

- 4 Write short notes on any **four** : **32**
- (a) Coomb's Test.
 - (b) Blood components prepared in blood bank with its use and storage temperature.
 - (c) Anticoagulants and preservatives in blood collection for blood banking.
 - (d) Investigations in case of bleeding disorders.
 - (e) Forward and Reverse blood grouping.
- 5 Write short notes on any **three** : **18**
- (a) Quality Control (QC) in blood banking.
 - (b) Criteria for selection of a blood donor.
 - (c) Investigation in case of a Blood transfusion reaction (BTR).
 - (d) Pre-transfusion testing done in blood bank for prevention of Transfusion Transmitted Infection (TTI) and for compatibility testing.
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