



RY-4571

Seat No. _____

D. M. L. T. Examination

March - 2019

Haematology, Immunohaematology & Blood Banking

Time : 3 Hours]

[Total Marks : 100

- Instructions :**
- (1) Figures to the right indicate full marks.
 - (2) Write legibly and to the point.
 - (3) Each section should be written in separate answer sheet.

SECTION - I

- 1** Write short notes on any **four** : **32**
- (a) Morphological classification of anemia and write about Iron Deficiency Anemia.
 - (b) Types of vacutte used in hematology with their specific anticoagulants and uses.
 - (c) Red Cell Indices - Normal values and significance.
 - (d) Erythrocyte Sedimentation Rate (ESR).
 - (e) Difference between Leukemia and Leukemoid Reaction.
- 2** Answer in brief : **10**
- (a) Difference between ring forms of P.vivax and P.falciparum.
 - (b) Draw a diagram of Basophil.
 - (c) Write about Hemoglobin estimation by Specific gravity method.
 - (d) Mention the peripheral smear findings in a case of Megaloblastic anemia.
 - (e) What is the normal value of Prothrombin Time (PT) and write causes of increased PT.

- 3** Answer in brief : **8**
- (a) Name four parasites seen in peripheral smear.
 - (b) Name four Romanowsky stains.
 - (c) Mention the indications of Arterial Blood Collection.
 - (d) Write down causes of Easinoiphilia.

SECTION - II

- 4** Write short notes on any four : **32**
- (a) Bombay blood group and Reverse blood group.
 - (b) Coomb's Test.
 - (c) Storage and shelf life of various blood components.
 - (d) Describe pre-transfusion testing and compatibility testing.
 - (e) Describe Anticoagulants and Preservatives used for storage of blood in blood bank.
- 5** Write short notes on any three : **18**
- (a) Name various blood group system and discuss ABO system.
 - (b) Criteria for an ideal blood donor.
 - (c) Post donation care of a blood donor.
 - (d) Hemolytic Disease of Newborn.
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