



HAEMATOLOGY AND BLOOD BANKING HSSC-II

Time allowed: 2:20 Hours

Total Marks Sections B and C: 40

NOTE: Answer any twelve parts from Section 'B' and any two questions from Section 'C' on the separately provided answer book. Use supplementary answer sheet i.e. Sheet-B if required. Write your answers neatly and legibly.

SECTION – B (Marks 24)

Q. 2 Attempt any **TWELVE** parts. The answer to each part should not exceed 2 to 4 lines. (12 x 2 = 24)

- (i) What is the composition of blood?
- (ii) List the stages of Granulopoiesis.
- (iii) Write down the functions of blood.
- (iv) Write down the procedure for ESR determination (Westegren's method).
- (v) Define any two absolute indices and also give their normal values.
- (vi) What is the procedure of RBC count?
- (vii) Name the clotting factors.
- (viii) Write tube method for blood grouping.
- (ix) Write down the criteria for selection of blood donors.
- (x) What is the clinical significance of thrombocytopenia?
- (xi) Write a short note on Sodium fluoride?
- (xii) Write down the calculation and normal values for TLC?
- (xiii) Define Burr cells and Target cells.
- (xiv) What are the laboratory findings of sickle-cell anaemia?
- (xv) Name blood parasites.
- (xvi) What are the clinical indications for bone-marrow aspiration?

SECTION – C (Marks 16)

Note: Attempt any **TWO** questions. All questions carry equal marks.

(2 x 8 = 16)

- Q. 3**
- a. Enumerate haemopoietic regulators.
 - b. Explain extrinsic and intrinsic mechanism of coagulation.
- Q. 4** What is TLC and how it is performed?
- Q. 5** Discuss the types of transfusion reactions.