





# HAEMATOLOGY AND BLOOD BANKING HSSC-II

72

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

- (i) Explain improved Neubaur counting chamber.
- (ii) Define leucopenia and lymphocytosis.
- (iii) What are developmental stages for lymphocytes?
- (iv) What is laboratory diagnosis for iron deficiency anemia?
- (v) What is ESR, how is it measured?
- (vi) What are factors affecting ESR?
- (vii) What is malaria?
- (viii) Enumerate clotting factors.
- (ix) What is clinical significance of PT and APTT?
- (x) What are indications for bone marrow trephine?
- (xi) Enumerate sites for bone marrow aspiration.
- (xii) Write down procedure for sternal aspiration in adults.
- (xiii) What is FAB classification of acute lymphoblastic leukemia?
- (xiv) What is Rh-typing? How is it done?
- (xv) Name blood transfusion reactions.
- (xvi) Enumerate different components prepared in blood bank.

## SECTION – C (Marks 16)

**Note:** Attempt any TWO questions. All questions carry equal marks. ( 2 x 8 = 16 )

- Q. 3** What is RBC count? Write down its requirements, procedure, calculations and normal values. (2+6)
- Q. 4** What is X-match? Explain 'major X-match' in detail. (2+6)
- Q. 5** Write notes on any two of the following:
- a. Pernicious anemia (04)
  - b. Aplastic anemia (04)
  - c. Intrinsic pathway of coagulation (04)