

**2003001105020002**  
**EXAMINATION FEBRUARY -MARCH 2024**  
**BACHELOR OF SCIENCE (FIFTH SEMESTER)**  
**BT-12 CLINICAL HEMATOLOGY - LEVEL 2**

[Time: As Per Schedule]

[Max. Marks: 50]

**Instructions:**

**1. Fill up strictly the following details on your answer book**

- a. Name of the Examination: **BACHELOR OF SCIENCE (FIFTH SEMESTER)**
  - b. Name of the Subject: **BT-12 CLINICAL HEMATOLOGY – LEVEL 2**
  - c. Subject Code No: **2003001105020002**
2. Sketch neat and labelled diagram wherever necessary.
  3. Figures to the right indicate full marks of the question.
  4. All questions are compulsory.

Seat No:

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Student's Signature

**Q.1 Define/Answer in short Any Four:**

**8**

- (a) Write functions of diluting fluids.
- (b) Define: Blood.
- (c) What is Histogram?
- (d) Define: Poikilocytosis.
- (e) What are the types of WBC?

**Q.2 Attempt Any Two:**

**14**

- (a) What is blood? State its functions.
- (b) Write down the properties and functions of Haemoglobin.
- (c) Collection of blood by venepuncture and what are the precautions taken during blood collection process.

**Q.3 Explain in detail Any Two:**

**14**

- (a) Write down the advantages and disadvantages of anticoagulants.
- (b) In details: ABO blood group system.
- (c) Short note on routine ABO testing & ABO antibodies.

**Q.4 Attempt Any Two of the following:**

**14**

- (a) In details: Selection of blood components.
- (b) Discuss the techniques for collection of blood.
- (c) What are the selection criteria of blood donor?

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