


RAN-2003001105020002

B.Sc. Biotechnology (Sem. -V) Examination October - 2025
Clinical Hematology (Old)

Time: 2 Hours]
[Total Marks: 50
સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the above details on your answer book
- (2) Figures to the right indicate full marks.
- (3) Draw neat and labelled diagrams wherever necessary.

Seat No.:

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Student's Signature

Q.1. Define/Answer in short, Any Four:
(8)

- (a) What are the types of Granulocytes?
- (b) Full form of RDW and MCV
- (c) What is Histogram?
- (d) Write down the RBC shape, size and Survival rate in days.
- (e) Minimum and maximum age limit for blood donor?
- (f) Write down the name of anticoagulants.
- (g) Write down the name of haemoglobin estimation method,
- (h) Write down the name of venous blood collection site.

Q.2. Attempt Any Two:
(14)

- (a) Explain in detail Hematopoietic system.
- (b) Write a note on ESR and PCV.
- (c) Write a note on anticoagulant and its uses and limitation.
- (d) Write a note on crossmatching tube test.

Q.3. Explain in detail Any Two:
(14)

- (a) Write a note on Rhesus blood group system & Bombay type
- (b) What is Thalassemia?
- (c) Write down it's symptoms and treatment.Explain blood collection methods.
- (d) Explain Hemoglobin derivatives.

Q.4. Attempt Any Two of the following:
(14)

- (a) Explain Hemoglobin estimation methods.
- (b) What are the Selection criteria of blood donor?
- (c) Explain in details routine ABO blood grouping.
- (d) Explain complete hemogram.