



RAN-2503230202010002

PGDMLT (Sem. - II) Examination October - 2025 Haematology (Paper - 2001)

Time: 3 Hours]

[Total Marks: 70

સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the above details on your answer book.
- (2) Answer all the questions.
- (3) Draw neat and labelled diagrams wherever necessary.

Seat No.:

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Student's Signature

Q. 1. Answer in Short: (Any Seven) (14)

1. What are the characteristics of anticoagulants?
2. What are the functions of hemoglobin?
3. What is aplastic anemia? Give its causes.
4. Give name and composition of WBC diluting fluid.
5. Which are the normal sites for hematopoiesis?
6. Define haemoglobinopathies with examples.
7. Give brief description of Wintrobe hematocrit tube.
8. Define D-Dimer with its normal range.

Q. 2. Attempt any TWO of the following: (14)

1. What is blood? Explain functions of blood
2. What is leucopoiesis? Explain development of granulocytes in detail.
3. Venous blood collection

Q. 3. Attempt any TWO of the following: (14)

1. Explain cyanmethemoglobin method of Hb estimation
2. What is thalassemia? Explain beta thalassemia in detail.
3. What is sickle cell anemia? Explain its screening test

Q. 4. Attempt any TWO of the following: (14)

1. Give normal morphology of RBC. Explain manual method of RBC count in detail.
2. Give detailed note on MCV and MCH.
3. What is anemia? Explain IDA in detail.

Q. 5. Attempt any TWO short notes of the following: (14)

1. Coagulation cascade.
2. Hemophilia A
3. Platelet count