

BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI  
(MID SEMESTER EXAMINATION SP/2025)

CLASS: B.Sc MLT  
BRANCH: MLT

SEMESTER : II  
SESSION : SP/2025

SUBJECT: BMT203 HEMATOLOGY I

TIME: 02 Hours

FULL MARKS: 25

**INSTRUCTIONS:**

1. The question paper contains 5 questions each of 5 marks and total 25 marks.
  2. Attempt all questions.
  3. The missing data, if any, may be assumed suitably.
  4. Tables/Data handbook/Graph paper etc., if applicable, will be supplied to the candidates
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		CO	BL
Q.1(a)	Define hematology and mention its significance.	[2] CO1	1
Q.1(b)	Write a short note on composition and function of blood.	[3] CO1	2
Q.2(a)	Write in short on agranulocytes.	[2] CO1	2
Q.2(b)	Discuss hematopoiesis.	[3] CO1	2
Q.3(a)	Why different types of anticoagulants are required.	[2] CO2	3
Q.3(b)	Discuss EDTA.	[3] CO2	2
Q.4(a)	Write in short on sodium citrate as anticoagulant.	[2] CO2	2
Q.4(b)	Discuss double oxalates as anticoagulant	[3] CO2	2
Q.5(a)	Why normal range of packed cell volume are more in infants as compared to adults.	[2] CO3	3
Q.5(b)	Discuss physiological variations of granulocytes.	[3] CO3	2

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