

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

CLASS: BSC MLT
BRANCH: MLT

SEMESTER : IV
SESSION : SP/2025

SUBJECT: BMT403 HEMATOLOGY II

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)	Write in short on types and functions of bone marrow.	[2]	1 2
Q.1(b)	Discuss cellular composition of bone marrow.	[3]	1 2
Q.2(a)	What is myelogram and M:E ratio.	[2]	1 2
Q.2(b)	Discuss preparation, staining and examination of bone marrow.	[3]	1 2
Q.3(a)	Justify the statement binding of haemoglobin to oxygen is called cooperative binding.	[2]	2 3
Q.3(b)	Enlist various enzymes involved in the synthesis of haemoglobin.	[3]	2 2
Q.4(a)	Write on identification of haemoglobin.	[2]	2 2
Q.4(b)	Discuss degradation of haemoglobin.	[3]	2 2
Q.5(a)	Define hemoglobinopathies. Mention abnormalities of haemoglobin.	[2]	3 1
Q.5(b)	Discuss thalassemia as abnormality of haemoglobin.	[3]	3 2

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