

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

CLASS: BMLT
BRANCH: BMLT

SEMESTER: IV
SESSION: SP/2025

SUBJECT: BMT409 IMMUNOPATHOLOGY

TIME: 2 HOURS

FULL MARKS: 25

INSTRUCTIONS:

1. The total marks of the questions are 25.
2. Candidates may attempt for all 25 marks.
3. Before attempting the question paper, be sure that you have got the correct question paper.
4. The missing data, if any, may be assumed suitably.

Q1	(a) Write notes on immunology and immunization.	[2]	CO1	L2
Q1	(b) What are autoimmune diseases? Explain systemic and Organ-specific autoimmune diseases with suitable example.	[3]	CO2	L2
Q2	(a) Classify the different types of vaccines. Why vaccines are important?	[2]	CO2	L2
Q2	(b) What are the causes of allergy, symptoms and its prevention? Write any two diagnostic tests.	[3]	CO3	L2
Q3	(a) Define blood grouping system.	[2]	CO1	L1
Q3	(b) Write the important functions of blood and blood platelets.	[3]	CO2	L2
Q4	(a) What are the composition of bloods and importance of Rh factors?	[2]	CO2	L2
Q4	(b) Who will not take part in the blood donation? Write the importance of knowing own blood groups.	[3]	CO3	L2
Q5	(a) Write the standard methods of blood collections. Write the role of anticoagulant.	[2]	CO2	L1
Q5	(b) What are the standard ways of blood storage and chances of its complications?	[3]	CO3	L2

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