

BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI  
(END SEMESTER EXAMINATION)

CLASS: BMLT  
BRANCH: BMLT

SEMESTER : IV  
SESSION : SP/2025

SUBJECT: BMT409 IMMUNOPATHOLOGY

TIME: 3 Hours

FULL MARKS: 50

**INSTRUCTIONS:**

1. The question paper contains 5 questions each of 10 marks and total 50 marks.
  2. Attempt all questions.
  3. The missing data, if any, may be assumed suitably.
  4. Before attempting the question paper, be sure that you have got the correct question paper.
  5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
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Q.1(a)	Explain infections and autoimmune disease with suitable examples.	[5]	CO CO2	BL L2
Q.1(b)	Explain in brief about the allergy and hypersensitivity reaction.	[5]	CO3	L2
Q.2(a)	What are blood clotting and anti-coagulants? Write the advantages and disadvantages of EDTA.	[5]	CO2	L1
Q.2(b)	Name the different types of blood related disease. Write the sign and symptoms of WBC and RBC related disorders.	[5]	CO2	L2
Q.3(a)	What are the standard methods of blood storage and their chances of various complications?	[5]	CO2	L1
Q.3(b)	Explain the blood transfusion process. What are the immediate adverse effects of blood transfusion?	[5]	CO3	L2
Q.4(a)	What do you mean by antenatal care? How to guide the women about the prenatal care?	[5]	CO2	L1
Q.4(b)	Explain the pathogenesis of hemolytic diseases. What are the diagnostic tests for hemolytic diseases of new born baby?	[5]	CO3	L2
Q.5(a)	When and why kidney transplantation is required? What are the sign and symptoms of kidney failure?	[5]	CO3	L1
Q.5(b)	What are the different types of kidney transplantation? When and why chances of complications of kidney transplantation?	[5]	CO2	L2

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