

BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(MID SEMESTER EXAMINATION MO/2024)

CLASS: BMLT
BRANCH: BMLT

SEMESTER : V
SESSION : MO/2024

SUBJECT: BMT5107 SEROLOGY & VIROLOGY

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

		CO	BL
Q.1(a)	Differentiate Active and Passive artificial immunity with examples.	[2]	1,4 4
Q.1(b)	Explain Granulocytes with diagram.	[3]	1,4 2
Q.2(a)	Discuss the following: (a) Epitope, (b) Opsonization	[2]	1,4 2
Q.2(b)	Explain Primary and Secondary response of Antibodies.	[3]	1,4 2
Q.3(a)	Discuss the following: a) PAMP _s and PRR, b) Toll like receptor 1 & 2	[2]	1,4 2
Q.3(b)	Describe Inflammation process with diagram.	[3]	1,4 2
Q.4(a)	Explain the following: a) Digestion process of Phagocytosis, b) MX protein	[2]	1,4 2
Q.4(b)	Describe classical pathway of complement activation.	[3]	1,4 2
Q.5(a)	Complete the following: a) +CD ₄ +TCR-----> Ag+ MHC II+..... b) MHC I----> α1,α2,α3,.....	[2]	1,4 4
Q.5(b)	How are endogenous and exogenous antigens processed and presented to T cells?	[3]	1,4 3

:.....24/09/2024:.....E