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

CLASS: BMLT

BRANCH: BMLT

SEMESTER: 5th

SESSION: MO/2024

SUBJECT: BMT5107 SEROLOGY & VIROLOGY

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.

Q.1(a) Q.1(b)	Explain various types and immune response of antibody. Discuss structure and chemical properties of antigen.	[5] [5]	CO 1 1	BL 2 2
Q.2(a) Q.2(b)	Enlist toll like receptors and their mode of action. Discuss types and immune response of interferon.	[5] [5]	1,2 1,2	3 2
Q.3(a) Q.3(b)	Discuss T cell receptor in detail. Differentiate T-independent & T-dependent Humoral immunity with diagram.	[5] [5]	1,2 1,2	2
Q.4(a) Q.4(b)	Differentiate Active & Passive agglutination with one example of each. Explain the principle and procedure of VDRL test.	[5] [5]	1,2 1,2	
Q.5(a) Q.5(b)	Discuss the following: a) flavi virus b) coliphage c) prions d) Lyssa virus e) capsomers Explain ELISA with different methods.	[5] [5]	3,4 3,4	2 2

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