

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

**CLASS: BMLT
BRANCH: BMLT**

**SEMESTER : 4th
SESSION : SP/2025**

SUBJECT: BMT401 MICROBIOLOGY II

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)	Discuss the mode of action of any two antibiotics	[5] 1	2
Q.1(b)	Describe some mechanisms to get resistance in bacteria against antibiotics.	[5] 1	2
Q.2(a)	Classify Vaccines & explain the mechanism of RNA vaccine.	[5] 2	3
Q.2(b)	Differentiate active and passive immunity with examples	[5] 2	4
Q.3(a)	Explain wastewater treatment with the help of diagram.	[5] 3	2
Q.3(b)	Write down the causative organism for the following diseases: a) Diarrhea b) Tuberculosis c) Pneumonia d) Common cold e) Sore throat	[5] 3	2
Q.4(a)	Discuss the steps involved in the production of Streptomycin.	[5] 4	3
Q.4(b)	Discuss vinegar production and write down its reaction.	[5] 4	2
Q.5(a)	Differentiate three major classes of Algae with examples	[5] 5	4
Q.5(b)	Give an example of the following: a) colonial algae, b) SCP, c) blanket weed, d) mermaid's wine glass, e) red algae	[5] 5	2

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