JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- 2026

M.Tech (Biotechnology)-II Semester

COURSE CODE (CREDITS):14M11BT211 (03) **MAX. MARKS:** 15

COURSE NAME: Industrial Biotechnology

COURSE INSTRUCTOR: Dr.Garlapati Vijay Kumar **MAX. TIME:** 1 Hour

Note: *(a) All questions are compulsory.*

(b) The candidate is allowed to make Suitable numeric assumptions wherever required for solving problems

Q.No	Question	Marks
Q1	How microbial cell cultivation have advantages over plant and animal/mammalian cell cultivation? Write about the biotechnological advantages of SSF over SmF?	4
Q2	Summarize the sequence of events happened behind "Pasteurization" and "Salvarasan (1st chemotherapeutic drug)?	3
Q3	Explain the development of "Penicilin"" by Alexander Fleming and its association with the technique/approach of "Strain Improvement "and "Fed-batch Fermentation"?	3
Q4	Write about the following one's (a) Two examples of Enzyme Inhibitors and Immunosuppressant's under IB products and its usage (1.5 M) (b) Comparative characteristics of SSF and SmF (1.5 M)	3
Q5	Write about any three enzymes used in Fruit & beverage and Therapeutic purpose along with the function/use?	2

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JUT TEST-1 EXAMINATION-FEB-2026

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