

**JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT**

**TEST -1 EXAMINATION- MARCH-2023**

**M.TECH (Biotechnology)- II<sup>nd</sup> Sem, 1<sup>st</sup> Year**

**COURSE CODE (CREDITS): 14M11BT211 (03)**

**MAX. MARKS: 15**

**COURSE NAME: Industrial Biotechnology**

**COURSE INSTRUCTORS: Dr. Garlapati Vijay Kumar**

**MAX. TIME: 1 Hour**

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*Note: All questions are compulsory. Marks are indicated against each question in square brackets.*

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1. Now a day, pasteurization is usual practice for the processing of milk and food products. Explain how the "Pasteurization" came in to limelight by explaining the creditable person work regarding pasteurization? **(CO I) (3 M)**
2. Explain the series of events happened in the discovery of "Penicillin" by Alexander Fleming? Why the penicillin is not successful for long time and need to look for other set of antibiotics? **(CO I) (3 M)**
3. What are the benefits of using enzymes in Detergent Industries? Mention any three enzymes and its role as a detergent enzyme? **(CO II) (3 M)**
4. What are the complexities associated with Mammalian cell cultivation? Give any two products of mammalian cell cultivation? **(CO II) (3 M)**
5. How SSF is different from SmF? Mention any three biotechnological advantages of SSF over SmF? **(CO I & CO II) (3 M)**

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