

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- 2024

B.Tech-VI Semester (BT)

COURSE CODE (CREDITS): 20B1WBT631 (03)

MAX. MARKS: 15

COURSE NAME: Manufacturing Process and Industrial Product

COURSE INSTRUCTOR: Dr. Garlapati Vijay Kumar

MAX. TIME: 1 Hour

Note: (a) All questions are compulsory.

(b) Marks are indicated against each question in square brackets.

1. What are the different characteristics/advantages of using enzymes as a drugs compared to the chemical entities? Give any two examples of therapeutic enzymes from plant, animal and microbial sources? **(CO I) (3 M)**
2. What are the therapeutic conditions observed in case of “Fabry Disease” and “Gaucher’s Disease” by including the recommended therapeutic enzymes for the treatment? Write briefly about the “Sarcosidase” and “Phenylase” as therapeutic enzyme? **(CO I) (3 M)**
3. Discuss in detail about the usage and indications of therapeutic enzymes “Serratiopeptidase” and “Hyaluronidase”? **(CO I) (3 M)**
4. Write about the physiological role and therapeutic role of “L-Asparaginase” in humans? Write briefly about the different sources of “L-Asparaginase” along with the utilized production, purification and characterization? **(CO II) (3 M)**
5. Discuss briefly about the role of “L-Glutaminase” as a therapeutic agent and food industry ingredient? Write a note on different approaches utilized for L-Glutaminase production through SmF, SSF and Inert supports-based SSF by mentioning the processing advantages of each case? **(CO II) (3 M)**

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