

No. of Printed Pages : 03

Roll No.

G124

B. Tech. EXAMINATION, 2020

(Seventh Semester)

(B Scheme) (Main & Re-appear)

(BT)

BT407B

MICROBIAL BIOTECHNOLOGY

Time : 2½ Hours]

[Maximum Marks : 75

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Attempt *Four* questions in all. All questions carry equal marks.

(5)M-G124

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1. Give a detailed account of extremozymes and modular enzymes, giving suitable examples of each type.
2. Enlist and explain the important applications of enzymes in various sectors.
3. Write the basic principles, methods and applications of protein and enzyme engineering.
4. What do you understand by complementing and engineering of metabolic pathways ? Discuss.
5. Discuss the production of single cell protein from carbohydrate and carbon dioxide.
6. Explain the metabolic engineering pathway for production of polyhydroxy alkanoates.

7. Elaborate the process of transformation of steroids, sorbitol and antibiotics and discuss their advantages.
8. Describe the important techniques used for analysis of microbial genomes and their use for designing drugs.