

No. of Printed Pages : 03

Roll No.

F537

B. Sc. EXAMINATION, 2020

(Fifth Semester)

(Re-appear Only)

(BT)

DBT330

ENZYME 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.

(S)M-F537

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1. Write notes on the following :
 - (a) Coenzyme-A
 - (b) Regulatory aspects of enzyme industry
 - (c) Anti-inflammatory agents
 - (d) Lipases
 - (e) Cross-linking agent.
2. What are Monomeric and Oligomeric enzymes ? Discuss their structure and function by taking examples of your choice.
3. Give structure of the following :
 - (a) Thiamine pyrophosphate
 - (b) FMN/FAD.
4. Discuss the isolation and purification methods of enzyme produced from microbial sources. Give examples.
5. Discuss the market potential of Enzyme business in India and Abroad.
6. Discuss various methods of enzyme immobilization binding methods.

7. Describe in detail about the design and development of Enzyme Reactors, by giving suitable examples.
8. Discuss the implications of cellulose degrading and metal degrading enzymes.
9. Give structure and function of the following enzymes in biochemistry :
 - (a) Streptokinase
 - (b) Transaminase
 - (c) CK and LDH.