

B.Sc. Semester-5 Examination
 CC 303
 Bio-Chemistry
 March-2024

Time : 2-30 Hours]

[Max. Marks : 70]

Q-1 A. HOW BIOCATALYST AND CHEMICAL CATALYST ARE DIFFERENT ? 7

B. DISCUSS ZYMOGENS WITH EXAMPLES. 7

OR

SHORT NOTE ON 1. ACTIVE SITE , 2. TYPES OF ENZYME SPECIFICITY. 14

Q-2 DISCUSS STRUCTURAL AND LOCATION WISE - DIFFERENT TYPES OF LDH. 14

OR

A. SHORT NOTE ON MEMBRANE BOUND ENZYMES. 7

B. DISCUSS ROLE OF METALS IN ENZYME FUNCTIONS. 7

Q-3 EXPLAIN CLASSIFICATION OF ENZYMES WITH EXAMPLES IN EACH CLASS 14

OR

EXPLAIN FACTORS AFFECTING ENZYMATIC REACTIONS.

A 1. Ph 2. Temperature 7

B substrate concentration..... 7

Q-4 A. EXPLAIN ABOUT - 2 SUBSTRATE REACTION MECHANISMS. 7

B. WRITE CHARACTERISTICS OF ALLOSTERIC ENZYMES. 7

OR

A. DISCUSS GLYCOGEN PHOSPHORYLASE REGULATION BY COVALENT MODIFICATION 7

B. SHORT NOTE ON .- ATCase (STRUCTURE) . 7

Q-5 WRITE ANY 7 FROM FOLLOWINGS 14

1 DEFINE WITH EXAMPLE – APOENZYME .

2 WRITE 2 SCIENTISTS CONTRIBUTION IN ENZYMOLOGY.

3 EXPLAIN THE TERM – ABZYME.

P.T.O

E1331-2

- 4 NAME 2 ENZYMES WITH ITS FUNCTIONS IN DIGESTION PROCESS.
- 5 DEFINE/DISCUSS POSITIVE AND NEGATIVE MODIFIERS FOR ALLOSTERIC ENZYMES.
- 6 NAME 2 METALLOENZYMES WITH METAL IN IT.
- 7 DRAW - & - LABELED ENZYME curve .
- 8 NAME 2 ENZYMES NEEDS B COMPLEX VITAMINS FOR THEIR FUNCTIONS.
- 9 WRITE 2 NAME OF ENZYMES USES - CO-ENZYME A - AS CO-ENZYME.
- 10 NAME 2 STEPS FOR ENZYME PURIFICATION.
- 11 NAME 2 BOOKS ON ENZYME STUDY .
- 12 GIVE 2 ENZYMES USED IN YOUR LABORATORY PRACTICALS.
