

**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 - & - LABEL ENZYME curve .

8 NAME 2 ENZYMES NEEDS B COMPLEX VITAMINS FOR THEIR FUCTIONS.

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.

---