

Q. Code:650351

	Marks	CO	RBT LEVEL
ne classification. Write their	(10)	1	2
once the substrate reaches the	(4)	1	2
R)			
e applied for characterizing the	(14)	1	2
neous enzyme catalysis using	(10)	2	3
enten Kinetics estimated?	(4)	2	3
R)			
say at varying concentration of	(14)	2	3
4 5			
40 2.58 2.70			
Concentration taken for assay			
e the eatalytic efficiency of the			
where the set the set the set of	(14)	2	2
Outline various methods of	(14)	3	3
intages and disadvantages.			
()	(1 A)	•	•
sensor with neat sketch.	(14)	3	3
natography/purification steps,	(14)	4	3
p for enzyme purification.			
Activity			
854			

854
8456
19584
24516
115470

Q. Code:650351

(OR)

- (b) Discuss about various enzyme purification methods which are applied for (14) 4 3 production and purification of enzymes. Criticize about problems associated with purification of such enzyme in industrial scale production.
- 15. (a) Why enzymes are engineered to improve their stability and catalytic activity. (14) 5 4
 Discuss about any one molecular biology method adopted for engineering enzyme.

(OR)

(b) Support your justification by explaining the mechanism by which a chemical (14) 5 4 molecule that mimic the enzyme reaction center can catalysis a reaction.

<u>PART- C (1 x 10 = 10 Marks)</u>

(Q.No.16 is compulsory)

Marks	CO	RBT
		LEVEL

16. Design an enzymatic biosensor for detection of any body fluid which (10) 5 5 measures the metabolite and displays the digital output. Explain the components which you use for the designing and discuss their function.

Q. Code:650351