Reg. No.:					
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Question Paper Code: 58967

B.E./B.Tech. DEGREE EXAMINATION, DEC 2021

One credit Course

Chemical Engineering

15UCH867 - ENZYMES FOR ENVIRONMENTAL APPLICATIONS

(Regulation 2015)

PART A - $(10 \times 1 = 10 \text{ Marks})$	
1. Enzymes are biocatalyst produced by cells	CO1 U
(a) protein (b) vitamin (c) mineral (d) acid	
2. There are main groups of enzymes	CO1 U
(a) 5 (b) 6 (c) 4 (d) 7	
3. Enzymes are soluble	CO1 U
(a) Water (b) acid (c) organic acids (d) alkali	
4. Non protein part of complex enzymes is called as	CO1 U
(a) simple enzyme (b) apo-enzyme (c) co-enzyme (d) holo enzy	yme
5. Co-enzymes are heat stable low molecular weight compound	CO1 U
(a) basic (b) organic (c) in-organic (d) acidic	
6. There aregroups of co-enzymes	CO1 U
(a) 2 (b) 3 (c) 4 (d) 5	
7. Most of the enzymes are obtained from	CO1 U
(a) plants (b) animal tissues (c) microbes (d) insects	

	based on their							
	(a) size and charge	(b) size and shape						
	(c) shape and net charge	(d) size and specific affinity	7					
9.	Which of the following is not included intracellular enzymes	under the category of		CO2 U				
	(a) DNA polymerase (b) RNA polymerase	rase (b) RNA polymerase (c) pectinase (d) ATP synthetase						
10.	Enzyme used for the removal of oil and greas	se is		CO2 U				
	(a) amylase (b) lipase ((c) laccase (d) ly	yase					
	PART – B (2 :	x 20= 40Marks)						
(Answer any three of the following questions)								
11.	Explain the factors affecting enzyme activity	with examples	CO1 U	(20)				
	Or							
	Describe the significance of co-factors ar reaction mechanism	nd co-enzymes in enzyme	CO1 U	(20)				
12.	Explain in detail about the extraction of microbial sources	enzymes from plant and	CO2 U	(20)				
	Or							
	Discuss briefly the applications of enzymes for	or environmental purposes	CO2 U	(20)				