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SARDAR PATEL UNIERSITY

V -SEMESTER EXAMINATION, November 2013

BIOCHEMISTRY - -ENZYMOLOGY - USO5CBCH02

Date : 15/11/13 time: 10.30_{am}-1.30_{pm} Marks:70

Q.1 multiple choice questions

[10]

- For which method purification dose not dependent on size and mass
 a) centrifugation b)ion exchange chromatography c)gel filtration d)dialysis
- 2 enzymes are also known as
 - a) protein biocatalyst b) organic catalyst c) thermo stable d) in on collidal
- 3 metal ions needed for enzyme activity are known as

a) coenzymes b) cofactors c)apoenzymes d)isoenzymes

4 At iso electric pH bimolecules carry

a) positive charge b)negative charge c)both charge d) no net charge

5 In ultracentrifuge pressure is applied by

a) nitrogen gas b) argon gas c)apoenzymes d)isoenzymes

6 Which is not an example for competitive inhibition

a) dihydro folat by amethoptrine b) enolase by flouride c)methanol by ether d)dicumarole

7 M-M constant is equal to

a) V max b) V max /2 c) 2 V d) V

8 Tertiary structure involved

a) Enzyme and two substrate b) Enzyme ,inhibitor and substrate c) Enzyme and substrate d) Enzyme ,metal ion and substrate

9 Which enzyme is not associated with

a)M-M CPK b) MBCPK c) LDH d) SGOT

10 Uric acid level is an important value for the diagnosis of

a) diabetes b) gout c) asterisms d) cardiac infraction

P.T.O

	Q.2 Small questions [answer any ten]	[]
	What is effect of pH on activity of enzyme?	[20]
	what do you mean by enzyme activity?	
	5 Define Katal"	
	 write on application of dialysis. Give name for dialysis memberane. Write principle for affinity observed. 	
	i selete tot anning chromatography	
	write on localization of mitochondrial enzymos	
	Virte on significance of Km value	
	- mot the reactive for allosteric inhibition	
1	- onne zero order and first order reaction	
1	amore application of immobilize enzymes with example	
12		
	2 Give examples of micro-organisms involved for the production of organic comp	Ounds
Q .:	3 a)write note on marker on the construction	ounus
	a)write note on marker enzyme for myo cardiac infraction .	[5]
	b) explain -adsorption method for enzyme immobilization	
	OR	[5]
	a) Explain –encapsulation method for enzyme immobilization	
	b) Classify LDH and explain - importance of it's estimation.	[4]
Q.4	a)Write note on application of	[6]
	 a)Write note on application of enzyme purification method based on size and ma b) Explain gel filtration for enzyme purification . 	
	°OR	[5]
	a)Explain – any one enzyme purification method based on polarity	U
Q.5	all the studie in the studies of the state o	[5]
4.5	- Joint Contract Delween competitive and non competitive set in	[5]
	b) Explain ping pong mechanism.	[6]
		[4]
	a)Discuss Michaelis – Menten theory	
	b) write note on inhibitors .	[6]
Q.6	Write role of coenzymes in enzyme catalysis.	[4]
	and the of coenzymes in enzyme catalysis.	[10]
	OR	5
	Discuss factors effecting on enzyme activity.	[40]
		[10]
	and the second	

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