## Diochementry 34B5c sem III 2015-16 Date - 2719110 Date: 29/09/15

## VCD-29/09/15 BIOCHEMISTRY-I S.Y.B.SC. SEM III EXAM MARKS75 21/2HRS (25)

NOTE: 1. All questions are compulsory.

- 2. Figures to right indicate marks.
- 3. Draw labeled diagrams wherever necessary.

Q I) A. Answer the following: (any 4)	[8]	
<ol> <li>What do you mean by prosthetic group.</li> <li>Define active site.</li> </ol>	- A	-
3) What do you mean by holoenzyme?.	-	-
4) How does substrate concentration affect enzyme reaction rate?	Heren Be	
5) Define Michaelis- Menten constant.		
6) What do you mean by prosthetic group?		-
7) Give name and type of reaction catalysed by enzyme having 1st E.C no 2 a	and 5.	
8) Explain the term Kcat=Vmax/[E]t		Ď.
B. Explain the following: (any 2)	[6	[6
1) Give a note on double reciprocal plot.		
2) Write a note on specific activity of enzyme.		
3) Derive Km from Michaelis-Menten equation.		
4) Explain irreversible inhibition, with example.		
C. Answer in brief: (any 1)	[6]	
1) Derive the Michaelis-Menten equation.		
2) Explain enzyme specificity. Mention drawback of Michaelis-Menten eq	lation.	
Q II) A. Answer the following (any 4)	[8	8]
1) What is exocrine gland; give e.g?		
2) Define peptide hormones, give e.g.		
3) State the location of hypothalamus gland?		
4) Write down the chemical structre of cytokinine.		4
5) Write down the function of GnRH.		
6) What is parthenocarpy?		
for columbia hormone recentor		
하는 사람들이 있는 사람들이다. 그리면 pp. 이 시작하다면 "A MATTE "이 아니라는 사람이 되었다. 말라고 말라고 하는 아프 바람들이 바라고 하다.		
8) Shortly describe about ACIH.		
B. Explain the following (any 2)	[6]	
1!- AND production in († protein collined receptor.		, i
of vecconrecin and state its fullicity.		
of ouvin and state its any infectious.		
<ul><li>3) Write down the structure of auxiliarid state its any times random.</li><li>4) State the incidence occurs during ovulatory phase of overian cycle.</li></ul>		
4) State the incidence occurs during ovaliatory phase of evertain sy		

Q IV] 2.(A.) Answer in following .(any	one) [2]
1). State function of ethylene.	2). State function of progesteron
2.(B.) Fill up the blanks : (any three)	[3]
1) Other name of ADH is	.(Anti diuretic hormone/anti diluting
hormone/ A diuretic hormone)	
2) Progesteron secrets from the	cells of overy.(graffian follicle/Corpus
luteum/Corpus albicance)	의 있는 사람들은 사람들은 그리고 얼마를 받는 것이다.
<ol> <li>Fruit produced by without fertilization</li> </ol>	ion is called(Seedless
fruit/parthenocarpic fruit/prototype fi	ruit )
4) Hyperthyroidism cause	(Goiter/Myxidema/Thyroid).
5) Dopamine is derivative of	(Thyroxine/Tryptophan/Tyrosine). (second messenger/ first messenger/ tertiary
6) CyclicAMP is a	(second messenger/ first messenger/ tertiary
messenger).	
O IVI 3 (A ) Answer the following a form	[2]
Q IV] 3.(A.) Answer the following: (any	
1) Give one example of acidic amino ac	old with structure.
2) Give pI value of Glycine.	
3.(B.) Fill up the blanks :(any three)	[3]
1) Miochondria Ammonium hydroxide	-ammonium chloride is the example of
buffer. ( Basic / Acidic / Ner	
2) pK <sub>R</sub> value of lysine is(2.2	
3) is the simplest amino acid (	Proline / lysine / Glysine )
4) If the pH of Tris buffer is 12 then the	H <sup>+</sup> ion concentration of huffer is a
	on concentration of carrels a
$(10^{-12}/10^{-9}/9)$	
5) The molecule A has neutral charge a	t pH'4, so its pK has to be(8/10/4)
6) Conjugate base of CH <sub>3</sub> COOH is	(NH <sub>4</sub> Cl / NaOH / CH <sub>3</sub> COONa).
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