Sen I CASCS Pro-chem-I

Morch 2015

QP Code: 15926

(3 Hours) [Total Marks: 70

NR .	(1)	AII	questions	are	compulsory	
11.1.	(1)	TAIL	questions	arc	compaisory	

(2) Write all subquestions of a main question together.

1. Aı	nswer the following.	
	(a) Draw structure of sucrose by Haworth Projection.	1
	(b) Draw structure of β-D Galactose by using Haworth Projection.	1
	(c) Draw structure of D-Ribose by using Fisher Projection.	1
	(d) Draw the structure of any one sulfur containing amino acid with 3	
	letter code.	1
	(e) Give name and structure of an acidic amino acid.	1
	(f) Draw structure of Spingomyelin.	1
	(g) Explain the effect of Temperature and pH on enzyme activity.	. 2
•	(h) What is irrversible enzyme inhibition?	. 2 .
	(i) Give name of drug inhibit to acetyl cholinesterase.	1
	(j) Define positive feedback inhibition in regulation of enzyme activity.	1
	(k) Name a water soluble vitamin synthesized by bacteria.	1
	(1) Justify Vitamin D as a hormone.	1
	(m) Explain Anabolism.	1
2. (a)	Write note on Tertiary structure of poteins.	3
	Explain compitative enzyme inhibition:	3
	Discuss ATP as energy carrier.	3
	Enimerate salient features of aigestion and absorption of carbohydrates.	2
		8
3. (a)	Write note on mutarctation phenomenon in saccharide.	3
	Write short note on Vitamin D or Vitamin K.	3
(c)	e di appropriate a compressione de la compressione de la compressione de la compressione de la compressione de	2
(d)	Write note on biological role of Ascorbic acid.	2
	Write role of adipose tissue in digestion and absorptio.	1
4. (a)	Classify amino acids based on their side chain properties and give one	.3
	example of an amino acid (structure not necessary) of each class.	3
(b)	Write note on Glycolipids OR Lipoproteins	3
	Write note on Pantothenic acid OR Riboflavin.	2
er.	Explain Laws of thermodynamics.	
	사람들이 하는 사람들이 가지 못 하셨다면 가는 것이 없는 것이 없는 것이 없는 것이 없다면 하는 것이 없다.	

QP Code: 15926

2

5. (a) Write note on Starch.	
(b) Derive Michaelis-Menten equation and state it's importance.	3
(c) Write note on Biotin.	3
(d) Explain thermodynamically favorable reaction.	2
6. (a) Write note on Glycoproteins.	2
(b) Give examples of drugs that inhibit the following two enzyme and their	r 🥠 2
clinical significance.	- 7
(i) Cyclo oxygenase	
(ii) HIV protease	
(c) Discuss compartmentalization of enzyme.	2
(d) Write short note on Thiamine.	3
(e) Discuss role of retinal in hody	2

WG-Con.: 8099-15.