SARDAR PATEL UNIVERSITY **EXTERNAL EXAMINATION**

DATE -22/11/19

DAY- FRIDAY

TIME 10:00 TO 1:00 pm

C		S05CBNF06 Sc VSem TITI	ESTRUCT			DINFORMATICS RMATICS & RDE	RMS-T	
			TOTAL MA	ARKS: 70)		-1110 1	
Q1-	Select the corr	ect from the fo	llowing Multi	ple Choic	ce: [1 X 10)]	[10]	
i)	In an α helix a)side chain residues point up and down the axis of the helix. b) the helix is right-handed c)there are five residues per helical turn d) there are usually many proline residues present							
ii)	The proteins which are involved in the proper folding of polypeptide chains are a) Proteases b) Chaperons c) Oxidases d) All of these							
iii)	Which of the fa) proline	following of ami b) cystein	no acids knowr c) methior		acid? d) serine	•		
iv)	Hydrophobic	ll always move	to the		of a protein			
·	a) Inside			-	d) Bo			
v)		g leads to						
	a)Increase	b) decre	ease c)	no change		d)small change		
vi)	Column of the relation are referred as. a) Relationship b) Tuples c) Attributes d) Record							
vii)	Which integri a) Entity	ty constraints st b) Referential	ates that no pr		v alue can d) Primary	be null.		
viii)		ery is of type DI			N.C.			
	a) Insert	b) Update	c) Dei	ete (d) Create			
ix)	query is not an auto committed query. a) Insert b) Create c) Alter d) Drop							
x)	For character	data type the _ b) &	sign m c) %		y string. d) \$			
Q2 —A	nswer the Short Diagrammatica	t Questions: (at		,	in folding.	[20]		
ii)	Explain Levinth	nal's Paradox.						
iii)	Discuss the force	ces involve in the	e stabilization of	protein st	ructure.			
iv)	Explain about C	Cystic fibrosis dis	sease,			<i>(</i>	<u>ي</u>	

v)	What are prions? Explain.							
vi)	Give the properties and structure of glycine and proline.							
vii)	What is tuple, attributes and Domain?							
viii)	What is relationship?							
ix)	List type of Relationship.							
x)	Explain concept of DUAL table.							
xi)	How to remove table along with its structure and data? Explain in brief.							
xii)	Explain any two datatypes available in Oracle.							
Q3	What is protein -protein interaction? Explain yeast 2 hybrid method.	[10]						
	OR							
Q3	a) Explain the tertiary structure in detail and bonds involve in its stabilization.	[05]						
Q3ł) What are supersecondary structure? Explain its types with example.	[05]						
Q4	What is protein misfolding? Discuss the factors responsible for it.							
Q4	b) Discuss the thermodynamics of protein folding.	[06]						
	OR							
Q4	a) Explain any two disease caused by misfolding of protein.	[04]						
Q4l	How chaperones helps in protein folding.							
Q5	Write Codd Rules which defines the RDBMS							
OR								
Q5	What is DML? List and explain different types of commands under this category with	[10]						
	appropriate syntax and example							
Q6a) Explain Primary key in detail	[06]						
Q6	b) Explain how to filtering the data in oracle. Explain with proper syntax and examples. OR	[04]						
Q6 a) Explain Foreign key in detail.								
Q6 b) Explain various ways to insert records in a table.								

