

SARDAR PATEL UNIVERSITY

M.Sc. Integrated Biotechnology Examination - Second Semester Friday, 1st April 2016 PS02CIGB03- Computer Applications

Time:	10:30 am to 1:30 pm	Marks: 70			
Q-1	Multiple Choice Ques	tions			[08]
1	is an association among several entities.				
	a) Entity	b) Domain	c) Relationship	d) None of these	
2	In E-R diagram	symbol is used to	represent attributes.		
	a) Rectangle	b)Ellipse	c) Diamond	d) None of these	
3	The constraint can be applied at column level only.				
	a) Primary	b) Foreign	c) Not Null	d) None of these	
4	The result of function <i>a</i> a) -55	ABS (-55) is b) 55	c) -1	d) None of these	
5	,	an be denied to a user usi	,	,	
	a) Recall	b) Grant	c) Revoke	d) Drop	
6	The attributes is used to declare a variables based on definition of column in a				
	table.	4.			
	a) %rowtype	b) %type	c) %row	d) %rowid	
7	The sequences that differ because of a gene duplication event is called				
	a) Paralogous	b) Orthologous	c) Analogous	d) None of these	
8	NCBI stands for				
	a) National Center				
	b) National Care for				
	c) National Center				
	d) None of these				
Q-2	Write short answers o		[14]		
1	Define: Information and Data				
2	What is E-R diagram? Explain its components in brief.				
3	Explain MIN() function	with example.			
4	Write a syntax and use	of ifend if statement.			

5	Explain unique key constraint in brief.	,		
6	Explain commit statement with syntax and its use.			
7	Explain LENGTH () function with example.			
8	Define Homologous and Orthologous.			
9	Give full form of EMBL, DDBJ, PIR and BLAST.			
Q-3: (A)	마르크 (1985년) 1일 전 1일			
Q-3: (B)		[06]		
	OR	[06]		
O-3: (B)				
Q-3. (B)	What is Normalization? Explain 1NF, 2NF and 3NF form with example.	[06]		
Q-4: (A)	List all the Codd's rules and explain any five of them.	[06]		
	Explain Primary Key and Foreign Key concept with proper syntax and example.	[06]		
	OR	[00]		
Q-4: (B)	Explain in detail Select and Insert statements with example.	[06]		
Q-5: (A)	What is explicit cursor? Explain Open and Fetch statement of explicit cursor with example.			
Q-5: (B)				
	OR	[06]		
Q-5: (B)	What is procedure? Explain procedure with syntax and example.	[06]		
Q-6: (A)	Describe central dogma of molecular biology in detail.	[06]		
Q-6: (B)	What is bioinformatics? Explain any five applications of bioinformatics in detail.	[06]		
	OR	- 4		
Q-6: (B)	Discuss the nucleotide sequence database in detail.	[06]		

**** All the best ****