Total Marks: 70

[27]

Note:

No. of Printed Pages: 02

Sardar Patel University

MSc Integrated Biotechnology Examination -Semester 2 PS02CIGB03: Computer Applications Saturday 25th April, 2015 10:30 am to 1:30 pm

		raw neat and labelled diagram, wherever necessary.	
Q.1		Multiple choice questions [0	[8
	1	Maximum number of characters allowed in varchar data type is	
		a) 250 b) 255 c) 4000 d) 4500	
	2	represent a directed relationship between two record type so called owner record type and member record type. a) record type b) set type c) relation scheme d) intermediate record type	
	3	A Sub Query is also termed asquery. a) Nested b) View c) Index d) Joins	
	4	command is used to change a content of table. a) Update b) Modify c) Change d) Alter	
	5	The attributes is used to declare a variables based on definition of columns in a table. a) %rowtype b) %type c) %row d) rowed	
	6	Which of the following is not three-schema architecture for a database? a) Hierarchical b) Physical c) Network d) Relational	
	7	Which of the following tool is not available at DDBJ?	
		a) LIBRA b) GTOP c) SAKURA d) Entrez	
	8	Study of change in transcript level is known as a) Proteome b) Proteomics c) Genome d) Genomics	
Q.2		Answer the following questions:[Any Seven]	4]
	1	Why database are required?	
	2	Explain concept of DUAL table.	
	3	Write syntax of Procedure.	
	4	What is column level constraints?	
	5	Explain distinct clause in brief.	
	6	Draw the PL/SQL Block.	
	7	Explain Group By clause.	
	8	What is central dogma?	
	9	Give full form of the following:	
		(a) NCBI (b) EMBL	
Q.3	A	Write advantages and disadvantages of DBMS.	06]

	В	What is Normalization? Explain 1NF, 2NF and 3NF with example.	[06]
		OR	
	В	What is ER modeling? Explain in detail with diagrams.	[06]
Q.4°	A	List and explain CODD's principles.	[06]
	В	Write down the applications of DBMS.	[06]
		OR	
	В	Explain the concept of PRIMARY KEY constraint with example.	[06]
Q.5	A	Write a detailed note on joining of tables.	[06]
	В	What is view? Why it is created, explain it syntax & example.	[06]
		OR	
	В	What are database triggers? Explain types of trigger with an appropriate example.	[06]
Q.6	A	Discuss architecture of NCBI in detail.	[06]
	В	Write down the features of Biological Database.	[06]
		OR	
	В	What are genomics and proteomics? Explain their role in understanding system biology.	[06]