SEAT No	to the same of the		
[88]	N N	o. of printed pages: 02	
I			
	<b>External Theory Examination</b>		
PS0	2CIGB03 – Computer Applications		
,	17 <sup>th</sup> November, 2017 (Friday)		
	Time: 02:00 p.m. to 05:00 p.m.		
Multiple CI : O		Total Marks: 70	
In pattern matching	estions.	[08]	
a)	allows to match a single character.		
c) &	d) None of these		
Which one of the follo	owing is an association among several enti	ties?	
a) Domain	b) Entity		
c) Relationship	d) None of these		
The output of select L	pad(Lower('SARDAR'),10,'^') from dual;	is	
c) ^^^SARDAR	,		
	·		
SQL statement.	ermanent a statement has to be	e given at the	
	b) roll back		
c) save point	d) view		
Which of the following is not three schema architecture for a database?			
	· •		
•	d) Rolational		
Privelages once given can be denied to a user using command.			
a) Recall	b) Grant		
c) Kevoke	d) Drop		
The sequence that differs because of a gene duplication event is called			
·	·		
oj Alialogous	a) None of these		
is an example of curated database.			
a) Swiss Prot	b) PDB		
c) GenBank	d) None of these	•	
	Multiple Choice Questin pattern matching a)	Sardar Patel University  M.Sc. (Integrated) Biotechnology  External Theory Examination  PS02CIGB03 - Computer Applications  17 <sup>th</sup> November, 2017 (Friday)  Time: 02:00 p.m. to 05:00 p.m.  Multiple Choice Questions.  In pattern matching allows to match a single character.  a) b) %  c) & d) None of these  Which one of the following is an association among several ential a) Domain b) Entity  c) Relationship d) None of these  The output of select Lpad(Lower('SARDAR'),10,'^') from dual;  a) ^^^Sardar b) ^^^Sardar  c) ^^^SARDAR d) None of these  To make the change permanent a statement has to be SQL statement.  a) commit b) roll back  c) save point d) view  Which of the following is not three schema architecture for a data a) Hierarchical b) Physical  c) Network d) Relational  Privelages once given can be denied to a user using comma a) Recall b) Grant  c) Revoke d) Drop  The sequence that differs because of a gene duplication event is one a) paralogous c) Analogous d) None of these  is an example of curated database.  a) Swiss Prot  Sardar Patel University  External Theory Examination  Pside Sardar a single character.  a) Py 6  By 10  By 11  By 12  By 12  By 12  By 13  By 14  By 15  By 16  By 17  By 17  By 18  By 18	

Q 2 1. 2. 3. 4. 5. 6. 7. 8. 9.	Short Questions (Attempt any seven).  Define: Attribute, Entity Define information and data.  Explain DROP command with syntax, use and example.  Explain Between() function with example.  Draw the PL/SQL block.  Write in brief about SQRT(), ROUND().  Give the role of primer in molecular biology.  What is gap and gap penalty?  Give full form of EMBL, DDBJ, PIR and BLAST.	[14]
Q 3 A.	What do you mean by DBMS. Explain advantages of DBMS.	
Q 3 B.	Define data model and explain relational data model in detail.	[06]
	OR	
Q 3 B.	Explain normalization in detail alongwith example.	[06]
Q 4 A.	List all the Codd's rules and explain any five of them.	[06]
Q 4 B.	Explain Primary key constraint with proper syntax and example.	[06]
Q 4 B.	Write and explain following function with syntax and example:  1. ABS() 2. SUBSTR() 3. POWER()	[06]
Q 5 A.	List out types of join. Explain any one in detail with syntax and example.	[06]
Q 5 B.	What is explicit cursor? Explain Open and Fetch statement of explicit cursor with example.	[06]
	OD	
Q 5 B.	OR Explain stored procedure in detail alongwith syntax and example.	[06]
Q 6 A.	Write a detailed note on BLAST and FASTA.	
Q 6 B.	What is bioinformatics? Explain any five applications of bioinformatics in detail.	[06] [06]
Q 6 B.	OR Discuss a detailed note on NCBI.	[06]