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B.Sc. (Part—III) Semester—VI Examination BIOINFORMATICS

(Advanced Bio-Computing)

Tim	ie : T1	hree Hours] [Maximum Marks	[Maximum Marks: 80	
	Not	e:—(1) All questions are compulsory.		
		Draw diagrams wherever necessary.		
1.	(a)	Fill in the blanks:		
		The row of a relation is called a		
		(ii) BCNF stands for		
		(iii) When a function calls itself again and again, it is called		
		(iv) To modify the structure of an existing table statement is used.	2	
	(b)	Choose the correct alternative :		
		(i) Which datatype is not allowed in the definition of PL/SQL record?		
		(a) X collection (b) X scalar		
		(c) Both (a) and (b) (d) None of the above		
		(ii) Which operator performs pattern matching?		
		(a) BETWEEN (b) LIKE		
		(c) EXISTS (d) None of the above		
		(iii) Which member can never be accessed by inherited classes ?		
		(a) Private (b) Public		
		(c) Protected (d) All can be accessed		
		(iv) Which function is used by PERL for displaying the length of a string?		
		(a) String (b) Len		
		(c) Split (d) Length	2	
	(c)	Define the following:		
		(i) Class		
		(ii) Constructor		
		(iii) Encapsulation	4	
2.	(0)	(iv) Joins. What is OODS 2 Explain its feetures	6	
4.	(a) (b)	What is OOPS ? Explain its features. Explain the structure of C++ with example.	6	
	(0)	OR	U	
3.	(a)	Explain inline function with suitable example.	6	
٠,٠	(b)	Explain the various datatypes in C++.	6	
4.	(a)			
	(4)	(i) Data abstraction		
		(ii) Encapsulation.	6	
	(b)	2' 2'	6	
		OR		

5.	(a)	What is operator overloading ? Explain. www.FirstRanker.com	er.com
	(b)	Define inheritance and explain its types with example.	6
6.	(a)	What is normalisation? Explain 1NF and 2NF with example.	6
	(b)	Explain hierarchical model of database with suitable example.	6
		OR	
7.	(a)	Explain the following DML commands:	
		(i) SELECT	
		(ii) INSERT.	6
	(b)	Explain BCNF with example.	6
8.	(a)	What is PL/SQL ? Explain its features in detail.	6
	(b)	Explain the various types of Joins with example.	6
		OR	
9.	(a)	Explain the block structure of PL/SQL.	6
	(b)	What is transaction? Explain Rollback and Commit with respect to ransaction.	6
10.	(a)	Explain the following privileges:	
		(i) GRANT	
		(ii) REVOKE.	6
	(b)	Explain the role of object privilege with example.	6
		OR	
11.	(a)	Explain the concept of system and object privilege with example.	6
	(b)	Explain role and needs of system privilege on SQL reports.	6
12.	(a)	Explain the procedure for installing PERL on system.	6
	(b)	Discuss the benefits of PERL programming in web-based applications.	6
		OR	
13.	(a)	Discuss the various individual approaches related to programming in PERL.	6
	(b)	Explain the working environment of PERL with example.	6

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