

YBC 16928

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(Contd.)

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

(Advanced Bio-Computing)

Time	e : Th	iree F	Hours	· []	•	[Maximum Marks:	80		
Note:—(1) All questions are compulsory.									
			(2)	Draw diagrams wherever necessar	y.				
1.	(a)	Fill i	in the	blanks:					
		(i) The row of a relation is called a							
		(ii)	(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.							
	(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)	Whi	ch operator performs pattern match	ing '	?			
			(a)	BETWEEN	(b)	LIKE			
				EXISTS		None of the above			
		(iii) Which member can never be accessed by inherited classes?							
				Private		Public			
				Protected		All can be accessed			
		(iv) Which function is used by PERL for displaying the length of a string?							
			(a)	String		Len			
			(c)	Split	(d)	Length	2		
	(c)	Define the following:							
		(i) Class							
		(ii) Constructor				2			
		` '		apsulation					
•	. X	10.00	Join				4		
2.	(a)			OOPS ? Explain its features.			6		
	(b)	Exp	iain t	the structure of C++ with example. OR			6		
2	(-)	E	1				6		
3.	(a)								
1	(b)								
4.	(a)	200							
		(i) Data abstraction(ii) Encapsulation.							
	(b)			the concept of constructor with suita	able (example	6		
	(0)	OR							

5.	(a)	What is operator overloading? Explain. www.FirstRanker.com www.FirstRanke	r.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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