(i) Prin	ted Pages	: 4]	Roll No.
(ii) Que	estions	: <b>9</b> ]	Sub. Code : 0 4 8 0
			Exam. Code : 0 0 0 5
В	3.A./B.		ral) 5th Semester ination
		11	127
		Base Syst	AL TECHNOLOGY tem and VB.NET) er : A
Time: 3	B Hours]	ori distributi Lando Amble	[Max. Marks : 65
Note :-	Candida	te is required	to attempt five questions in all,
	includin	g question No	o. 1 (which is compulsory) and
	attempt	remaining for	our questions by selecting one
		remaining for from each U	Strol HV H
		from each U	POTOL BY BI
1. (a)	question	from each U	Unit.
1. (a)	question	from each U	Unit.  ry Question
Bui	question Write th	from each U  Compulson  e various fe	Unit.  ry Question  atures and applications of

	(c)	Write the steps to be followed to add any	
		object from the tool box to any application.	2.5
	(d)	Write a single statement that concatenates the	
		words 'Hello' and 'World' and assign it in a	
		variable named greeting using PL/SQL.	2.5
	(e)	What is the purpose of % type data type in	
		SQL ? Explain with example.	3
		Unit-I	
2.	(a)	Discuss the various relational operators available	
		in VB.Net.	6.5
	(b)	Discuss the various elements of user interface	
		in VB forms.	6.5
3.	(a)	Differentiate between pass by value vs. pass by	
		reference. Explain with example.	6.5
	(b)	What is recursion? Write a program to find	
		factorial of a number using recursion.	6.5
N	<b>A</b> –9	6 (2)	IA.

## Unit-II

4.	(a)	What is string ? Discuss the various string	
		manipulation functions.	
	(b)	Write a program to implement bubble sort.	6.5
5.	Crea	ate an application using which we can insert and	
	dele	te information from a database using SQL	
	state	ments.	13
		Unit-III	
6.	(a)	What are the various approaches for data	
		management? How DBMS is better than the	
		other data management approaches ?	6.5
	(b)	Discuss the twelve Rules (Codd's Rule) for	
		RDBMS.	6.5
7.	(a)	Write and explain the various arithmetic	
		functions available in SQL with example.	6.5
	(b)	What are joins ? How data can be retrieved	
		from multiple table using joins ? Give example.	6.5
N	<b>4</b> –9	<b>6</b> (3) Turn (	Over

## Unit-IV

8.	Writ	te a PL/SQL code to find the sum of digits of a	
	num	ber.	13
9.	(a)	Explain how each of the following mechanisms	
		contribute to providing security for database :	
		(i) Authorization	
		(ii) Backup and Recovery	
		(iii) Sequences	6.5
	(b)	What are views and why are they needed ?	
		How they help to enhance the database security?	
, j		Justify your answer.	6.5

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