B.Sc. (Part—III) Semester—V Examination COMPUTER SCIENCE

(RDBMS and Visual Basic)

Time	: T	hree	Hours]		[Maximum Marks : 8	30
Note	:—	(1)	ALL questions are compulsory.			
		(2)	Question No. 1 carries 8 marks and all oth	her q	uestions carry 12 marks each.	
		(3)	Assume suitable data wherever necessary			

1. ((a)		in the blanks:			
		(i)				
			A set of values for an attribute is called			
			A property determines whether			
((iv)	is the foundation control in any	win	dow based application.	2
	(b)	Cho	ose the correct alternative :			
		(i)	The number of attributes in the relation	is cal	lled of relation.	
			(a) Relation	(b)	Tuple	
			(c) Degree	(d)	Cardinality	
		(ii)	SQL can be used to			
			(a) Modify database data only	(b)	Query database data only	
			(c) Create database structure only	(d)	All of the above	
		(iii)	act as a container for all the co	ntrol	s that make up the user interfac	e.
			(a) Form Layout Window	(b)	Object	
			(c) Form	(d)	Control	
		(iv)	Which of the following operators is used	for	performing modulo division ?	
			(a) %	(b)	Mod	
			(c) \	(d)	/	2
	(c)	Ans	swer in one sentence :			
		(i)	What is the difference between CHAR a	nd V	ARCHAR ?	
		(ii)	What is a Data Definition Language?			
		(iii)	What is the difference between Label Co	ntrol	and Text Box Control ?	
		(iv)	What is nested loop ?			4
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2.	(a)	Explain three levels of database architecture.	6
	(b)	Explain the following:	
		(i) Data Dictionary	
		(ii) Data Independence.	6
		OR	
3.	(a)	Explain database system with its components.	6
	(b)	What are the advantages and disadvantages of DBMS ?	6
4.	(a)	What is normalization? Explain the 2NF with suitable example.	6
	(b)	Explain the concept of functional dependency with suitable example.	6
		OR	
5.	(a)	Explain the following:	
		(i) Relation	
		(ii) Domain	
		(iii) Attribute.	6
	(b)	Explain various keys used in defining the database.	6
6.	(a)	Explain the components of SQL in database system.	6
	(b)	State the purpose of the following commands with syntax and suitable examp	le:
		(i) CREATE	
		(ii) ALTER	
		(iii) SELECT.	6
		OR	
7.	(a)	What is SQL? What are the characteristics of SQL?	6
	(b)	What is view? How can views be created and dropped?	6
8.	(a)	Explain the various components of Visual Basic IDE (Integrated Develo	pment
		Environment).	6
	(b)	Explain the following controls:	
		(i) Text Box	
		(ii) Picture Box	
		(iii) Image.	6
		OR	
9.	(a)	Explain any six common properties of Visual Basic Controls.	6
	(b)	What is an event? Explain the concept of event driven programming.	6

10.	(a)	Explain menu editor to create menus for your application with suitable example.	6			
	(b)	Explain select case statement with clause 'Is' with suitable example.	6			
		OR				
11.	(a)	Explain the following:				
		(i) Numeric Data Types in VB				
		(ii) Non-Numeric Data Types in VB.	6			
	(b)	Explain the following with example:				
		(i) Nested IfElse				
		(ii) Nested for Loop.	6			
12.	(a)	Explain the syntax of MsgBox() function with suitable example.				
	(b)	Explain the following functions:				
		(i) Sgn()				
		(ii) Replace()				
		(iii) Choose()				
		(iv) CSng()				
		(v) Now()				
		(vi) Trim().	6			
		OR				
13.	(a)	Explain InputBox() function with syntax and suitable example.	6			
	(b)	Explain the use of Check Box and Option button with suitable example.	6			

