No. of Printed Pages: 2

BICS-038

DIPLOMA - VIEP - COMPUTER SCIENCE AND ENGINEERING (DCSVI)

Term-End Examination

December, 2017

00344

BICS-038: DATABASE MANAGEMENT SYSTEM

Tir	ne : 2 h	nours Maximum Marks : 70			
Note: Attempt any seven questions. All questions carry equal marks.					
1.	(a)	Describe the database system concept with a neat diagram.			
	(b)	Explain database design with an example. 5			
2.	Draw reser	an ER-diagram for a train berth vation system.			
3.	(a)	Discuss integrity constraints over relations. 5			
	(b)	Differentiate between tables and views. 5			
4.	(a)	Explain selection and projection operations of Relational Algebra with an example. 5			
	(b)	What do you mean by Algebra overviews? 5			
BICS-038		1 P.T.O.			

5.	(a)	Describe complex integrity constraints in SQL triggers.	5
	(b)	Explain in detail about active databases.	5
6.	(a)	Describe logical connectivities in relations with example.	5
	(b)	Explain a basic SQL query with an example.	5
7.	-	in the process of Normalization with ole example.	10
8.	(a)	Describe in detail about comparison of file organisation over database.	5
	(b)	Explain indexes and performance tuning.	5
9.	Write	short notes on the following:	
	(a)	ACID Properties	3
	(b)	Transaction and Schedules	3
	(c)	Concurrent Execution of Transactions	2
	(d)	Locks	2
10.	(a)	Explain concurrency control with the help of an example.	5
	(b)	Explain conflict serializability with suitable example.	5