(Please write your Exam Roll No.)

Exam Roll No. 13614902016

Paper Code: BCA-110	Semester [BCA] May 2017 Subject: Database Management Systems
Time: 3 Hours	Mercel and a second the second th
Note: Attempt any five ques	stions including Q no. 1 which is compulsory
Select on	e question from each unit.
Q1 Answer the following:-	(EE-05)
(a) What do you mean b	y functional dependency? Discuss with suitable
campic.	
concurrency control?	at are the various types of locks used for
. Corrective Collings	n functions of a database administrator.
(9) Demic are following (CIMS giving examples for each of them.
genroute, role and rela	duonson between the entities
(e) Differentiate between o	database management system and file system.
2 (a) Write a short note on t	UNIT-I three scheme architecture. (4.5)
Explain different types	of Data Independence
(c) write a short note on t	he following:- (5)
Primary Kky	(0)
(ii) Candidate key (iii) Super key	
Jiv Derived attribute	
(v) Multivalued attribut	te .
(a) Explain the term General example.	neralization and Specialization with suitable
, oranipic,	141
dancer's identification	table for a dance studio. The attributes are number, dancer's name, dancer's address,
dancer o terephone mun	HDEL, Class identification number dove that the
crass meets, time in	at the class meets instructor name
mod detor identification	I Humber. Assume that each dancer tolers are
crass, each meets only	Once a week and has one instructor and and
mon actor can teach	more than one class. Dancer (Dancer_ID, Address, Dancer_Phone, Class_ID, Class_Day,
orass_rime, msu ucto	I Name. Instructor ID) Drow on anti-
relationship diagram (El	RD) for this database. (8.5)
	()
(a) Explain the SOL operator	UNIT-II
caking suitable example	ors BETWEEN, AND, IN, LIKE and IS_NULL by s.
(b) Discus various data type	es available in SOI
(c) SQL allows attributes to	O have a special value MIIII which is called
are man value. What ar	re three common interpretations that can be
put on null values?	(3)
(a) What is a weak entity s	set? What are two principles sources of weak
ordery sees: Give example	es to explain
(b) What do you understa	and by referential integrity constraint and
attribute-based check co	nstraint? (6.5)

P.T.O.

(6.5)

Q6 (a) Given the following UNIT-III	
(a) Given the following relations:	
Vehicle (reg-no, make, colour)	(6)
Person (eno, name, address)	
Owner (eno, reg-no)	
Write expressions in relational algebra to answer the	
fi) List the	following
14 Dist tile names of many	
(ii) List the names of persons who do not own any car. (b) Differentiate between Data Definition 1.	
(b) Differentiate between Data Definition Language (DDL) (c) Write a chart	
Manipulation Language (DML).	and Data
(c) Write a short note on 3NF.	(3)
Q7/ (a) List the difference 1	(3.5)
Q7 (a) List the difference between Equijoin and Natural join. Give each join operation.	Vone 1
V'I THAL AIR ING SHOLL	161
(b) What are the problems caused by data redundancies? (Can doto
redundancies be completely eliminated when a database appropriate the problems caused by data redundancies? (used? Explain this with the help of an example	nroach is
used? Explain this with the help of an example.	(6.5)
	(0.5)
(b) Describe Deadlock with suitable example.	(6)
(b) Describe Deadlock with suitable example. recovery from the deadlock.	n about
	(6.5)
Q9 Write short notes on the following:-	(0.0)
(a) Time Stamp Rased Company	
	(4)
(c) Serializable and Non Serializable Transactions	(4)
ochanzable Transactions	(4.5)
	,,

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