

RF-1827-R

First Year B. C. A. (Sem. II) Examination April / May - 2010

P-205: Database Management System

Tim	te: 3 Hours] [Total Marks	: 70
Ins (1)	tructions:	
F N	ચે દર્શાવેલ → વિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી. illup strictly the details of → signs on your answer book. ame of the Examination : F.Y. B.C.A.	
N	ame of the Subject :)
-	205 - DATABASE MANAGEMENT SYSTEM	
_s	ubject Code No.: 1 8 2 7 ◆ Section No. (1, 2,) : NIL Student's Signatur	
(2)	Figures on the right indicate marks.	
(3)	Take assumption whenever necessary.	
1	Answer the following questions:	12
(1)	Define DDL, DCL and DML with example.	
(2)	What is BCNF? How does it differ from 3NF?	
(3)	What is the different between super key and çandidate key?	
(4)	What are object-based logical models? Describe any one.	
(5)	What is trivial and non-trivial functional dependency?	
(6)	What is data abstraction? Mention its level.	
2	(a) What is data dictionary? How the data dictionary is maintained? Discuss integrity related issues pertaining to Data Dictionary. Or	8
	Write a note on database system users. (b) Define relationship. Explain types of relationship with example. Or	5
	What do you mean by normalization? Explain BCNF in deatil.	
3	Write notes on following: (any three) (i) Discuss lossless-join decomposition.	21
	(ii) Explain specialization and Aggregation in detail.	
	(iii) Explain entity set and types of attributes in detail.	
	(iv) Explain different types of keys.	

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[Contd...

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4 Answer following:

(a) Construct an E-R diagram for a car insurance company whose customers 6 own one or more cars each. Each car has associated with it zero to any number of recorded accidents.

Or

Construct an E-R diagram for a hospital with a set of patients and set of Medical doctors. Associate with each patient a log of the various tests and examination conduct

- (b) Explain following.
 - How to set relationship between tables in access?
 What is cascade update and cascade delete?

Or

- What is check constraint? How to define it?
 How to primary key define on table?
- 5 Consider following relations in database and solve the queries. 12

Book_mast (book_no, book_name, author, publisher, no_of_copy)
Stud_mast(lib_no, stud_name, book_no, no_of_copy)
Transaction (trans_no,trans_type, lib_no, book_no, no_of_copy, trans_date)

- (1) Display all student name who have more than two books.
- (2) Display all books whose publisher is "BPB".
- (3) Display all students who have "DBMS" book.
- (4) Delete records from stud_mast for all students who have "ORACLE" book.
- (5) Change transaction type to "R" (Return) for all transaction whose transaction type is "I" (Issue) and book name = "Let US C"
- (6) Display all student name who get book publisher "BPB"