

Roll No.

Total Pages : 3

251405

May, 2019

MBA - IV SEMESTER

Relational Data Base Management System (MBA/EC-212)

Time : 3 Hours]

[Max. Marks : 75

Instructions :

1. *It is compulsory to answer all the questions (1.5 marks each) of Part-A in short.*
2. *Answer any four questions from Part-B in detail.*
3. *Different sub-parts of a question are to be attempted adjacent to each other.*

PART-A

1. (a) What do you mean by the term Database? (1.5)
- (b) What is a key? (1.5)
- (c) Differentiate between generalization and specialization. (1.5)
- (d) What is query processing? (1.5)
- (e) Differentiate logical and physical level of database. (1.5)
- (f) What is a candidate key? (1.5)
- (g) What are data control permissions? (1.5)

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- (h) What do you mean by selection and projection operator? (1.5)
- (i) What are the different types of join? (1.5)
- (j) Differentiate between primary key and foreign key. (1.5)

PART-B

- 2. What is an ER Diagram? Also, explain various types of attributes? Draw an ER diagram for Hospital Management. (15)
- 3. (a) Explain the various features of Oracle 8i in detail. (8)
(b) Define Triggers. Explain its types. (7)
- 4. What is normalization? Explain 1NF,2NF,3NF with example. Differentiate between 3NF and BCNF. (15)
- 5. (a) Discuss data storage formats on disk. (8)
(b) Explain in detail the granting and revoking rules of DBMS. (7)
- 6. (a) How backup and recovery is done in database? (8)
(b) Explain how security can be done in database. (7)

- 7. Consider the following scheme for a library (15)
BOOKS(DocId, Title, Publisher, Year)
STUDENTS(StId, StName, Major, Age)
AUTHORS(AName, Address)
borrows(DocId, StId, Date)
has-written(DocId, AName)
Write the queries for :
 - (a) List the year and title of each book.
 - (b) List all information about students whose major is CS.
 - (c) List all books published by McGraw-Hill before 1990.
 - (d) Rename AName in the relation AUTHORS to Name.
 - (e) List the name of those authors who are living in Davis.