



Printed Pages : 3

MBA-IT-1

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 1017

Roll No.

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M. B. A.

**(SEM. III) EXAMINATION, 2008-09
DATABASE MANAGEMENT SYSTEM**

Time : 3 Hours]

[Total Marks : 100

- Note :*
- (i) Attempt all questions.*
 - (ii) All questions carry equal marks.*
 - (iii) Be precise in your answer.*
 - (iv) No second answer book will be provided.*

1 Attempt any **two** parts of the following : **10×2=20**

- (a) Differentiate between a flat file system and a database. Also describe the components of DBMS.
- (b) Define the following :
 - (i) Network Model
 - (ii) Data independence.
 - (iii) Semantic Data Model
 - (iv) Advantage of DBMS.
- (c) (i) What is the difference between an entity type and an entity instance ? Explain with example.



- (ii) What do you mean by weak entity ? How are they represented in GR-diagram ?
- Explain.

2 Attempt any **two** parts of the following : **10×2=20**

- (a) (i) What is the difference between clustered index and non-clustered index ?
(ii) Write short note on Hashing
- (b) Explain the following in brief with suitable example :
(i) Relational Data Model
(ii) Triple Calculus Systems.
- (c) Discuss various relational algebra operations with example.

3 Attempt any **two** parts of the following : **10×2=20**

- (a) Explain the purpose of Normalization and state the First, Second and Third Normal forms with example.
- (b) (i) Explain Boyce Codd normal form with example.
(ii) Describe Integrity constraints in brief.
- (c) Is JOIN an essential operation ? Can it be defined using the five primitive operations ? Explain with example.

4 Attempt any **two** parts of the following : **10×2=20**

- (a) If Employee E# = 156 and E# = 217 have changed their telephone numbers, write SQL statements in ORACLE to update the status in the Employee table.
- (b) Why is a cursor used ? What is the difference between an implicit and an explicit cursor ?
- (c) Write short note on Client / Server database environment.

5 Describe any **two** parts of the following **10×2=20**

- with example :
- (a) Object Oriented Data Model
(b) Data Warehousing
(c) Distributed Database.

