

Total No. of Questions : 08] [SET-A] [Total No. of Printed Page : 01

FINAL EXAMINATION –JULY 2017  
MASTER OF BUSINESS ADMINISTRATION (MBA)

Second Year – Third Semester  
(IT Group)

3MBA - 13

Database Management System

Time : 3 Hours

Max Marks : 70

Min. Marks : 28

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**Note :** Attempt any five questions. All questions carry equal marks.

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- Q.1. (a) List five Responsibilities of the DB Manager.  
(b) Give the Limitations of E-R model? How do you overcome this?
- Q.2. (a) What benefit is provided by strict-two phase locking? What are the disadvantages results?  
(b) What is an active database?
- Q.3. (a) Highlight the features of object oriented database.  
(b) Define query language. Give the classification of query language.
- Q.4. (a) Compare file system with database system  
(b) Explain the architecture of DBMS.
- Q.5. (a) What are the steps involved in designing a database application? Explain with an application.  
(b) List the possible types of relations that may exist between two entities.
- Q.6. (a) Justify the need for Normalization with examples.  
(b) What is Normalization? Explain 1NF, 2NF, 3NF and BCNF with suitable example.
- Q.7. (a) What is FD? Explain the role of FD in the process of normalization.  
(b) Explain the Security features provided in commercial query languages.
- Q.8. (a) Explain the four important properties of transaction that a DBMS must ensure to maintain database.  
(b) (i) What is concurrency control? How is it implemented in DBMS? Explain.  
(ii) Explain various recovery techniques during transaction in detail.

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