

Roll No ... **RGPVONLINE.COM****MCIT - 105****M.E./M.Tech., I Semester**

[2]

Examination, June 2014

Advance DBMS*Time : Three Hours**Maximum Marks : 70**Note : Attempt any five questions. All questions carry equal marks.*

1. a) List the various data abstractor concept and the corresponding modeling concept in the EER model. 7
b) Discuss the entity integrity and referential integrity constraints. Why is each considered important? 7
2. a) What is the minimal normal form that a relation must satisfy? And why? 7
b) Describe the concept of transitive dependency and explain how this concept is used to define 3 NF. 7
3. a) Explain how heuristic query optimization is performed with an example. 7
b) Discuss the rules for transformation of query trees and identify when each rule should be applied during optimization. 7
4. a) Discuss the reasons for converting SQL query into relational algebra query before optimization is done. 7
b) Give a brief note on distributed query processing. 7
5. a) What are the function that need to be provided by distributed databases in addition to those of a centralized DBMS. 7
b) How is vertical partitioning of a relational specified? How can a relation be put back together from a complete vertical partitioning? 7
6. a) What is the function of object definition language and the object manipulation language in the ODMG standard? 7
b) Describe the built in structured literals of the ODMG object model and the operation of each. 7
7. a) What are the association rules as a type of knowledge? Give a definition of support and confidence and use them to define an association rules. 7
b) Write short note on :
r-tree, kd tree, Quadtree. 7
8. a) What are PHP auto global variables? How is a function variable passed in PHP? 7
b) What are place holder? How are they used in PHP database programming? 7

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