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Roll No

IT-710 (GS)**B.E. VII Semester**

Examination, December 2017

Grading System (GS)**Advanced Concepts in Database System***Time : Three Hours**Maximum Marks : 70*

- Note:** i) Attempt any five questions.
ii) All questions carry equal marks.

1. a) Discuss different types of database management systems with advantages and disadvantages of each. 7
b) Explain in detail about specialization and generalization. 7
2. What are different types of relational query languages? Discuss the different techniques for optimizing the queries. 14
3. a) Design the steps involved in processing a query with suitable example. 7
b) Explain in detail how to identify an Active and Deductive database with the help of an example. 7
4. a) Describe the different approaches for storing XML documents in databases. 7
b) Describe the web based architecture with suitable example. 7

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5. a) Briefly explain about intra-operation parallelism and inter operation parallelism. 7
b) Explain about ODBC and JDBC. 7
6. Write short notes on: 14
a) Spatial Databases
b) Multimedia Databases
c) Temporal Databases
d) Web Databases
7. What are the different advantages of a distributed database management system? Discuss in detail the different functions of a DDBMS to manage the complexity of data distribution. 14
8. a) Discuss the various indexing techniques for data management. 7
b) Write short notes on: 7
i) Parallel database and
ii) Distributed databases.
