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MCA 502

Fifth Semester M.C.A. Degree Examination, December 2018
ADVANCED DATABASE MANAGEMENT SYSTEMS

Time : 3 Hours

Max. Marks : 75

Note : Answer **any five full** questions. **All** questions carry **equal** marks.

1. a) What you understand by distributed databases ? Explain the various architecture of DDBMS. 8
b) Mention types of distributed database with a neat block diagram. 7
 2. a) Describe data fragmentation, replication and allocation in distributed databases. 8
b) Briefly explain distributed query processing. 7
 3. a) What is an object identifier ? What primary characteristics should an OID possess ? What are its advantages and disadvantages ? 8
b) Compare RDBMS, OODBMS and ORDBMS along with their advantages and disadvantages. 7
 4. a) How do you create a trigger ? Explain types of trigger. 7
b) Summarize the syntax and semantics of starburst, oracle and DB2 databases. 8
 5. a) Write the working principle of RSA algorithm with an example. 7
b) Discuss how time is represented in Temporal databases and compare the different time dimensions. 8
 6. a) Define data warehouse. Explain data modelling for data warehousing. 7
b) What are the functionalities of a data warehouse ? Explain with data cube. 8
 7. a) Explain in detail XML database. What are the differences between the uses of tags in XML versus HTML ? Explain with suitable example. 8
b) Define DTD. Explain the types of DTD with suitable example. 7
 8. Write a short note on :
 - a) Multimedia database 5
 - b) Spatial Database 5
 - c) XML schema. 5
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