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Total No. of Pages: 02

Total No. of Questions: 09

MCA (2015 & Onwards) (Sem. – 3)

DATABASE ADMINISTRATION

M Code: 74073

Subject Code: MCA-301

Paper ID: [74073]

Time: 3 Hrs.

Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

1. SECTIONS-A, B, C & D contains TWO questions each carrying TEN marks each and students have to attempt any ONE question from each SECTION.
2. SECTION-E is COMPULSORY consisting of TEN questions carrying TWENTY marks in all.

SECTION A

1. What is database package? Discuss the procedure to Install and configure MS SQL database server.
2. Explain the following:
 - a) Client/Server model
 - b) Database Objects

SECTION B

3. How do you implement the following as a DBA?
 - a) database compression and integrity
 - b) migration, consolidation and upgrade strategy
4. a) Discuss Business policy implementation in detail.
b) What is Data Replication? How is it implemented?

SECTION C

5. a) Explain the procedure of granting and revoking privileges.
b) How Auditing user activity is implemented?
6. Explain in detail the process of database security and recovery.

SECTION D

7. What is performance tuning? Discuss the requirements of performance Tuning & its Methodology.
8. Write short notes on:
 - a) Clustering based disaster-proof databases
 - b) Database mirroring.

SECTION E

9. Explain briefly:
 - a) What is RAID?
 - b) What is a nested query?
 - c) Define scalability in a database.
 - d) Discuss communication protocols.
 - e) Explain different database views.
 - f) Discuss various client tools for administrative task.
 - g) Write process to modifying user account.
 - h) Write note on Re-writing SQL queries.
 - i) What is a view? How is it defined?
 - j) What is an index? How do you declare an index with SQL?