Roll No. ☐☐☐☐☐☐☐☐☐☐☐☐ 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?