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Total No. of Questions: 09

Total No. of Pages: 02

MCA (Sem. 3)
DATABASE ADMINISTRATION
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 carrying TEN marks each and students have to attempt any ONE question from each SECTION.
2. SECTION-E is compulsory consist of TEN question carrying TWO marks in each.

SECTION A

1.
 - a) What is a Client-Server Model? Describe any five database servers.
 - b) What are communication protocols? Explain any two.
2.
 - a) What is a database package? Introduce any five packages.
 - b) Compare various database packages based upon their functionality.

SECTION B

3. How do you execute the following administrative tasks as a database administrator?
 - a) Managing data integrity
 - b) Exporting and importing data
4. Discuss the Database replication and its importance following in the context of managing database servers.

SECTION C

5. What is database encryption? What is the need of database encryption? How do you implement database encryption in a database?
6. What are the main goals of the RAID technology? How does it achieve them?

SECTION D

7. Writ short notes on:
 - a) Tuning methodology
 - b) Database Mirroring
 - c) Clustering

8. a) What is the need of rewriting SQL queries for tuning sub-queries?
 b) What is table optimization? How is it important for monitoring the performance of database

SECTION E

9. **Write briefly:**

- a. What do you understand by the word "views" in the context of databases?
- b. What is the use of table functions?
- c. What are steps involved in Database startup?
- d. What is a sub query?
- e. What is privilege management? Why is it important?
- f. What is the difference between a database schema and a database instance?
- g. What is the use of HAVING clause in SQL? Give example?
- h. What is a Statement Auditing?
- i. What is RAID?
- J. How do you audit user activity in a database environment?