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MCA (2015 & Onwards) (Sem.-3)
DATABASE ADMINISTRATION

Subject Code: MCA-301 M.Code: 74073

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

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

SECTION-A

- What is database administration? Define the roles and responsibilities of Data Base Administrator (DBA). As a DBA, write the procedure to install and configure a database package (MS- SQL/MySQL/Oracle).
- a) What is a database package? Introduce any five packages.
 - b) What are communication protocols? Explain any two.

SECTION-B

- a) Describe the issues of data export and import in multiple servers.
 - b) What is a DBA can do to manage database integrity?
- Discuss the Database replication and its importance in the context of managing database servers.

SECTION-C

- 5. What are the steps taken to ensure secure User Access to the database? How is user activity monitoring helpful to ensure database security?
- 6. What are the main goals of the RAID technology? How does it achieve them?

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SECTION-D

Write short notes on :

- a) Optimize the performance of the database
- b) Performance Tuning
- c) Re-writing SQL queries
- a) How do Indexes help in improving database performance? Give suitable examples.
 - b) What is table optimization? How is it important for monitoring the performance of database?

SECTION-E

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 an indexes?
- e) What is database encryption? Why is it important?
- f) What is the difference between a database schema and a database instance?
- g) What is the use of GROUP BY clause in SQL? Give example.
- h) What are the types of failure?
- i) What is privilege management? Why is it important?
- j) How do you audit user activity in a database environment?

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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