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MCA (2014 Batch) (Sem.-3)
DATABASE ADMINISTRATION

Subject Code: MCA-301 M.Code: 70772

Time: 3 Hrs. Max. Marks: 100

INSTRUCTION TO CANDIDATES:

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

SECTION-A

- a) What is Database Administration? Explain in detail the role and responsibilities of DBA.
 - b) Discuss various database packages. How can they be installed?
- What is client server model? What are its advantages? Explain the different types of client server models in detail with examples.

SECTION-B

- How do you implement :
 - a) Database compression
 - b) Upgrade strategy and data integrity as a DBA?
- 4) What is database replication? Provide step by step instructions for setting up and managing replication using various database packages.

SECTION-C

- 5) a) What is database security? How is it achieved in a database server?
 - b) What are user accounts? How can they be created and modified?
- 6) Discuss the role of database encryption. What is the need of database encryption? How do you implement database encryption in a database?

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SECTION-D

- Explain the different aspects of database tuning in relational databases. How query tuning helps in database tuning.
- 8) Write short notes on :
 - a) Database clustering
 - b) Table optimizations

SECTION-E

9) Write briefly :

- a) Compare oracle with MySQL database.
- b) What is a subquery?
- c) Why is database backup required?
- d) What is the use of revoke privileges?
- e) Discuss various communication protocols.
- f) What are the steps involved in database startup?
- g) Define High Availability in database.
- h) What is an index? How can we declare an index with Sql?
- i) What is database mirroring?
- j) How can we identify full table scans?

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.

