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Total No. of Pages : 02

Total No. of Questions : 18

**MCA (2015 to 2018) (Sem.-3)**  
**DATABASE ADMINISTRATION**  
Subject Code : MCA-301  
M.Code : 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 has 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)
  - a) Describe client-server model.
  - b) Discuss the activities of database environment management.
- 2) What is database package? Compare various database packages with market.

**SECTION-B**

- 3) What is database replication? What are the problems faced during this? Explain in detail.
- 4)
  - a) Write notes on :
    - a. Data Compression
    - b. Business Policy Implementation
  - b) Write a note on Data Compression and Business Policy Implementation

**SECTION-C**

- 5) What is RAID technology? How it is implemented? Explain its levels in detail.
- 6) Explain all steps how to create, modify and delete user roles. Also discuss roles of user.

### SECTION-D

- 7) What is an Index? How it helps in improving database performance? Explain with example.
- 8) What is performance tuning in databases? Discuss its methodology.

### SECTION-E

**Write briefly :**

- 9) Log Switch
- 10) RAID
- 11) Instance Vs. Schema
- 12) Stored Procedures
- 13) Tablespace
- 14) Partial Backup
- 15
  - a) Auditing
  - b) On-line redo log
- 16) Data Encryption
- 17) Sub Query
- 18) Nested Function

**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.**