Roll No. Total No. of Pages: 02

Total No. of Questions: 09

MCA (2013 and 2014 Batch) (Sem.-3)
DATABASE ADMINISTRATION

Subject Code: MCA-301 Paper ID: [B1157]

Time: 3 Hrs. Max. Marks: 100

INSTRUCTION TO CANDIDATES:

- 1. SECTIONS-A, B, C & D contains TWO questions each carrying TWENTY 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.
- 3. Use of non-programmable calculator is allowed.

SECTION-A

- 1. a. What does a database security administrator do?
 - b. What are various entities and activities involved in database environment management?
- 2. a. Discuss briefly any five database packages.
 - b. What are database objects? How do DBA create and manage various database objects?

SECTION-B

- 3. a. Explain the difference between ARCHIVELOG mode and NOARCHIVELOG mode and the benefits and disadvantages to each.
 - b. Discuss various side effects of compressing a database.
- 4. a. Explain disk storage replication and file based replication in distributed databases.
 - b. How DAM (Database Activity Monitoring) implements database encryption? Highlight some backup issues.

SECTION-C

- 5. a. What are various privileges available with DBA for granting and revoking?
 - b. Discuss steps to create and modify user roles in detail.
- 6. a. What are various types of failures of database? Discuss strategies of backup and recovery.
 - b. Explain all RAID levels. Discuss high availability and disaster recovery of databases.

SECTION-D

- 7. a. Elaborate various performance tuning issues along with their requirements.
 - b. Explain the use of indexes to improve performance.
- 8. a. What happens in full table scans? What is the need of rewriting SQL queries for tuning sub-queries?
 - b. Explain the concept of database mirroring and cluster analysis.

SECTION-E

9. Answer briefly:

- a. What are different modes of mounting a database with parallel server?
- b. What is difference between Temporary tablespace and Permanent tablespace?
- c. What is snapshot log?
- d. What are the ways to monitor the performance of the report?
- e. What is strip source generate option?
- f. What is the difference between OLE Server & OLE Container?
- g. A tablespace has a table with 30 extents in it. Is this bad? Why or why not?
- h. What are the default extensions of the files created by menu module?
- i. What is a Static Record Group?
- j. Where is the external query executed at the client or the server? Comment.