V Semester M.C.A. Examination, December 2016
(CBCS)
COMPUTER SCIENCE
Advanced Database Management Systems : MCA 502

Time : 3 Hours
Max. Marks : 70

Instruction : Answer any five questions from Section – A and any four questions from Section – B.

SECTION – A

Answer any five questions. Each carries 6 marks. (5x6=30)

1. How "Create Record Operation" is performed in MongoDB? Explain with an example.

2. Discuss equivalence rules of query transformation.

3. Explain the concept of creating and using index in MongoDB.


5. Explain with neat diagram the disk drive components.

6. Write a note on inverted index used in search engines.

7. Explain about mining various kinds of association rules.

8. Write a note on:
   a) Big Table in Crawl
   b) Hadoop.

P.T.O.
SECTION – B

Answer any four questions. Each carries 10 marks. (4x10=40)

9. What is NO-SQL? How it is different from RDBMS? Explain types of NO-SQL databases.

10. Explain storage architecture of document store-MongoDB.

11. Explain in detail RAID levels.

12. Write a note on Data Warehouse Architecture.

13. Discuss Map-Reduce paradigm in Big Data processing.