



PG – 455

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.

(5×6=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.
4. What is information life cycle ? Explain features of information life cycle management strategy in detail.
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.

(4×10=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.
 14. What are basic building blocks of search engines ? Explain with neat diagram.
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