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.

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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