Exam. Code 107203 Subject Code: 1761

Bachelor of Computer Application (BCA) 3rd Semester DATABASE MANAGEMENT SYSTEM

Paper-II

Time Allowed—3 Hours [Maximum Marks—75

Note: - There are EIGHT questions. Candidates are required to attempt any FIVE questions. All questions carry equal marks.

- Elaborate the three-level architecture of database systems. Why we need mapping between levels? Briefly discuss components of a DBMS.
- Give comparison of Relational, Hierarchical and Network model. 15
- Describe the similarities and dissimilarities between BCNF and 3rd normal form. Discuss a case where fourth normal form is applicable and how it removes the anomalies. 15
- Define concurrency. How concurrency is controlled using lock based protocols? Explain with an example.

15

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Describe the term Big Data and its significance. Explain its architecture.

(A) What do you understand by the term views?

(B) Discuss the use of UNION, INTERSECTION and

What is a cursor in SQL? Explain its type. How to

Compare and evaluate between NoSQL, MySQL and

. 15

15

MINUS set operators in subqueries.

Give their advantages.

create explicit cursor in SQL ?

Oracle.

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