

Exam. Code : 107203  
Subject Code : 1684

Bachelor of Computer Application (BCA) 3<sup>rd</sup> Sem.  
(Batch 2020-23)

**DATABASE MANAGEMENT SYSTEM**

**Paper-II**

Time Allowed—3 Hours] [Maximum Marks—75

Note :- Attempt FIVE questions in all, selecting at least ONE question from each section. The fifth question may be attempted from any section. All questions carry equal marks.

**SECTION—A**

1. What is Database Management System (DBMS) ? What are the advantages of DBMS over traditional file processing systems ? Explain. 15
2. Discuss in detail the entity relationship model with the help of suitable example. 15

**SECTION—B**

3. What do you mean by data security ? How database security is enforced in a database system ? Discuss in detail. 15
4. What is normalization ? What is the need to normalize databases ? What are its advantages ? Explain giving examples. 15

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1

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**SECTION—C**

5. What is a cursor in SQL ? Explain its type. How to create Implicit cursor in SQL ? 15
6. (a) List the difference between DDL, DML and DCL. 9  
(b) ACID properties of transaction. 6

**SECTION—D**

7. Compare and evaluate between NoSQL, MySQL and Oracle. 15
8. What is HDFS ? Explain the components of HDFS with a neat diagram. 15

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2

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