

Roll No.

97671

**BCA 3rd Semester (New)
Examination – November, 2019**

INTRODUCTION TO DATABASE SYSTEM

Paper : BCA-203

Time : Three Hours]

[Maximum Marks : 80

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt *five* questions in all, selecting *one* question from each Unit. Question No. 1 is *compulsory*. All questions carry equal marks.

1. Explain the following : 16

- (a) Traditional file based systems
- (b) Conceptual modeling
- (c) Database relations
- (d) Concept of security

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UNIT – I

2. Define Database System. Explain its components. Also explain advantages and disadvantages of Database System. 16

3. Explain the following : 16

- (i) Database Administrator
- (ii) DBMS Languages

UNIT – II

4. Define Database System Architecture. Explain in detail about three levels of architecture. 16

5. Define Data Models and explain the following : 16

- (i) Physical Data Models
- (ii) Object Based Data Models

UNIT – III

6. Explain the following : 16

- (i) Entity sets
- (ii) Abstraction and Integration

7. Explain Hierarchical and Network Data Models in detail. 16

UNIT – IV

8. Define Normalization. Explain different types of Normal forms in detail. 16

9. Explain the following : 16

- (i) Query Processing
- (ii) Views