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

UNIT – I

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

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.
- **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

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7. Explain Hierarchical and Network Data Models in detail.

UNIT - IV

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

9. Explain the following:

16

- (i) Query Processing
- (ii) Views