Unit-IV

- 8. What are the problems of bad database design?
 Write the procedure of normalizing database while discussing various normal forms.
- 9. (a) Write the syntax of the following SQL commands and give an example of each:
 - (i) Alter
 - (ii) Insert
 - (iii) Delete
 - (iv) Update
 - (b) Write short notes on the following:
 - (i) Recovery
 - (ii) Concurrency

Roll No.	:	

Total No. of Questions: 9]

[Total No. of Pages: 4

97671

BCA 3rd Semester (New) (Full & Reappear) Examination, March-2021

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. Question No. 1 is compulsory and attempt four more questions by selecting one question from each Unit. All questions carry equal marks.
- 1. Answer the following questions:
 - (a) Define the term database.
 - (b) What are disadvantages of DBMS?
 - (c) What are the advantages of client server architecture ?

(1)

- (d) What do you mean by data independence?
- (e) Define entity integrity constraint.
- (f) Explain NULL constraint.
- (g) What is SQL?
- (h) What is View?

Unit-I

- 2. (a) What do you mean by Data? How is it different from information, explain by example.
 - (b) What is File Processing System? What are its disadvantages?
- 3. (a) What is DBMS? What are the main facilities that every DBMS should provide? Explain.
 - (b) Who is DBA? What are its various jobs and responsibilities? Also give the additional duties that may be assigned to DBA.

Unit-II

4. Explain three-view architecture of database system with mapping. How these different views of database are related to the concepts of logical and physical data independence?

- 5. (a) Write short notes on the following:
 - (i) Record-based data model
 - (ii) Object-Oriented data model
 - (b) What are the different ways of classifying a DBMS? Explain in detail.

Unit-III

- 6. (a) Design an E-R diagram for library management system. Make your own assumptions about the system.
 - (b) Differentiate between network model and relational model with their relative merits and demerits.
- 7. Explain the following terms:
 - (i) Domain
 - (ii) Attribute
 - (iii) Entity
 - (iv) Entity set
 - (v) Primary key
 - (vi) Candidate key
 - (vii) Foreign key
 - (viii) Alternate key