

BCA Third Semester Examination, Dec - 2019**FIRST PAPER****Data Base Management System**

Paper Code:42301

Time Allowed: Three Hours**Maximum Marks: 70**

No supplementary answer book will be given to any candidate. Hence the candidates should write the answers precisely in the main answer book only.

(Attempt all six questions.)**Part I (Question No. 1 & 2) is compulsory & Part II (Question No. 3, 4, 5 & 6) has internal choice.****PART I**

- 1.** Attempt any 10 questions out of the following. Each question carries 1 mark. **10x1=10**
(Words limit up to 20 words each)
- What is DBMS?
 - What is DDL?
 - What is DBA?
 - What is E – R Model?
 - What is Key?
 - What is Attribute?
 - What is Functional Dependency?
 - What is Transaction?
 - What are Views?
 - What are Sub – Queries?
- 2.** Attempt all questions. Each question carries 5 marks. **4X5=20**
(Words limit up to 50 words each)
- What is the difference between Database System and File System?
 - What is the difference between Generalization and Specialization?
 - Explain various types of Functional Dependency.
 - Explain various types of Aggregate Functions.

Part-II**Unit- I**

- 3.** What do you mean by Data Abstraction? Explain the difference between Physical Level, Conceptual Level and View Level of data abstraction. **10**

ORWhat is Database Model? Explain various types of data models in detail. **10****P.T.O.**

Unit- II

4. Explain various notations for E – R diagram.

10

OR

Write short note on :-

10

- a) Primary Key
- b) Alternate Key
- c) Secondary Key
- d) Aggregation
- e) Foreign Key

Unit- III

5. What is the importance of Normalization? Explain different normal forms up to 3 - NF.

10

OR

Write short note on:-

10

- a) Loss – Less decomposition and lossy decomposition
- b) ACID properties and transaction states.

Unit- IV

6. What are the advantages of SQL? Explain various data types available in SQL.

10

OR

Write short note on:-

10

- a) Various types of SQL commands
- b) Different types of Joins.
