

Roll No.

S-8046

B. C. A. (Third Semester) Examination, 2017-18

Paper Second

BCA - 702

[Database Management System]

Time : Three Hours]

[Maximum Marks : 70

Note : Attempt any five questions. All questions carry equal marks.

- Q1. (a) Distinguish between a file processing system and a DBMS? 7
(b) What is the role of Database administrator? 7
- Q2. (a) Construct and $\epsilon - R$ diagram for a hospital with a set of patients and set of doctors? 7
(b) Explain the distinction among the terms, primary key, candidate key and super key? 7
- Q3. (a) What is the role of data independence in DBMS? 7
(b) Discuss the various types of JOIN operation differentiate OUTER and INNER JOIN? 7
- Q4. (a) What is significance of normalization of the database? Define 1NF and 2NF? 7
(b) What do you mean by multivalued dependency? Also explain the concept of 4NF in short? 7
- Q5. Discuss the procedures of deadlock prevention detection and recovery in details? 14
- Q6. (a) What do you mean by serials serializable schedules? 7
(b) Differentiate the database schema and instances? 7
- Q7. Write a short note on : 14
(i) Types of SQL DDL commands
(ii) Data Modelling
(iii) Aggregation