

B.C.A. (2010 Course Sem- II : SUMMER - 2019
SUBJECT : DATABASE MANAGEMENT THEORY

Day : Monday
Date : 15/04/2019

S-2019-2088

Time : 10.00 AM TO 01.00 PM
Max. Marks: 70

N.B.

- 1) Q.1 is **COMPULSORY**. Out of the remaining attempt any **FOUR** questions from Q.2 to Q.7.
- 2) Figures to the right indicate **FULL** marks.

Q.1 Explain various symbols used in construction of Entity Relationship Diagram. Draw an ERD for Library Management System. **(14)**

Q.2 What is relational database model? Explain various mapping cardinalities ratios with relevant example in detail. **(14)**

Q.3 a) Explain in detail different aggregate functions use in SQL. **(07)**

b) Explain in detail various set operations with example. **(07)**

Q.4 Explain the following terms with example. **(14)**

- a) Foreign Key
- b) DDL statement
- c) Group by clause
- d) Data Warehousing

Q.5 What is Join? Explain types of join in detail with suitable example. **(14)**

Q.6 What is deadlock? Explain how deadlock can be handled using timestamp method in detail. **(14)**

Q.7 Write short note on(Any Two) **(14)**

- a) Shadow paging
- b) Benefit of Normalization
- c) Data Mining

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