

Code No: MB163B/R16

MBA III Semester Regular/Supplementary Examinations, Nov/Dec-2019

RELATIONAL DATABASE MANAGEMENT SYSTEMS (RDBMS)

Time: 3 Hours

Max. Marks: 60

*Answer Any FIVE Questions
All Questions Carry Equal Marks
Question No. 8 is Compulsory*

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| 1. a | What is data sharing? | 4M |
| b | Describe the history of Database systems. | 8M |
| 2. a | Define Database schema. | 4M |
| b | Explain about various Database models. | 8M |
| 3. a | What are the uses of fourth normal form? | 4M |
| b | Explain the role of normalization in Database design. | 8M |
| 4. a | Briefly describe about Aggregation. | 4M |
| b | Distinguish between relational algebra and relational calculus. | 8M |
| 5. a | What are the tools of ORACLE? | 6M |
| b | Compare and contrast SQL and PL/SQL. | 6M |
| 6. a | List out the functions of Database Administrator. | 6M |
| b | Describe the different forms of DBA. | 6M |
| 7. a | Define homogeneous distributed Databases. | 4M |
| b | Explain the steps involved in processing a Query. | 8M |
| 8. | CASE STUDY: | 12M |

The Registrar's office of a University maintains data about the following entities:

1. Courses, including number, title, credits, syllabus, and prerequisites;
2. Course offerings, including course number, year, semester, section number, instructor(s), timings, and classroom;
3. Students, including student-id, name, and program;
4. Faculty Members, Non-teaching staff, including identification number, name, department, and title.

Further, the enrollment of students in courses and grades awarded to students in each course they are enrolled for must be appropriately modeled. Construct a SQL table and an E-R diagram for the registrar's office. Document all assumptions that you make about the mapping constraints.
