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| **R V College of Engineering Department of Information Science and Engineering CIE Question Paper** |
| **Course : 12IS64                       DataBase Management System                 Semester : 6** |
| **Date :                              No Of Hours : 2                     Staff :** |
| **Note :** i) Answer all questions                                             **Max Marks : 15 + 50**  ii)Part A questions to be answered in first two pages of answer booklet. |

**Part 1**

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| **Question** | **Marks** | **LOD** | **CO** |
| Give an example of converting a M:N cardinality relation to Schema | 2 | 3 | 2 |
| Define an entity. | 1 | 1 | 1 |
| Give an example of ternary relation | 1 | 2 | 1 |
| Write one difference between file storage and database storage. | 1 | 3 | 1 |
| Define schema | 1 | 1 | 1 |
| Expand DBMS | 1 | 1 | 1 |
| What is a relation | 1 | 1 | 1 |
| Give an example of division operation | 1 | 2 | 1 |
| Give an example that illustrates referential integrity constrai | 2 | 2 | 4 |
| What is the difference between composite and simple attributes? | 2 | 1 | 2 |
| Illustrate natural join with an example | 2 | 3 | 1 |

**Part 2**

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| **Question** | **Marks** | **LOD** | **CO** |
| Explain with neat diagrams different architectures of database management systems. | 6 | 3 | 1 |
| How is physical and logical data dependencies maintained in a three schema architecture. | 4 | 1 | 1 |
| Give the characteristics of database design | 8 | 2 | 1 |
| What are the disadvantages of database systems? | 2 | 3 | 3 |
| What is join operation? What are its variations? Explain with examples | 5 | 2 | 1 |
| Explain the UNION, INTERSECTION, and MINUS Operations with examples | 5 | 1 | 1 |
| Explain characteristics of a relation | 6 | 3 | 1 |
| What is multivalued dependency? When does it arise? | 4 | 1 | 1 |
| Explain Mapping EER Model Constructs to Relations with example | 8 | 3 | 2 |
| What are the various types of attributes? | 2 | 3 | 2 |

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