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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** |
| The \_\_\_\_\_\_\_\_\_\_ model was developed to meet the need of manipulating complex data types. | 1 | 2 | 3 |
| Differentiate between weak and normal entity | 2 | 1 | 1 |
| Write one difference between file storage and database storage. | 1 | 3 | 1 |
| Define an entity. | 1 | 1 | 1 |
| Give an example of ternary relation | 1 | 2 | 1 |
| Give an example of converting a M:N cardinality relation to Schema | 2 | 3 | 2 |
| Illustrate natural join with an example | 2 | 3 | 1 |
| Describe candidate key ? | 1 | 2 | 4 |
| Give an example that illustrates referential integrity constrai | 2 | 2 | 4 |
| Give 1 difference between natural join and equi join | 2 | 1 | 2 |

**Part 2**

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| **Question** | **Marks** | **LOD** | **CO** |
| Give the advantages of database design | 8 | 1 | 1 |
| What are the disadvantages of database systems? | 2 | 3 | 3 |
| Write a note on different database interfaces. | 5 | 1 | 1 |
| Give different attributes in a database | 5 | 2 | 1 |
| Explain the three normal forms with examples | 6 | 2 | 1 |
| Why do practical database designs typically aim for BCNF and not aim for higher normal forms? | 4 | 3 | 1 |
| Define the following terms with respect to the tuple calculus: tuple variable, range relation, atom, formula, and expression. | 5 | 3 | 1 |
| Explain the UNION, INTERSECTION, and MINUS Operations with examples | 5 | 1 | 1 |
| Explain ER-to-Relational Mapping Algorithm | 8 | 2 | 1 |
| Illustrate natural join with an example | 2 | 3 | 1 |

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