**Academic Year: 2021-2022 (Even Semester)**

**BE (CSE) CIE –I**

Subject: Database Management System Subject Code: PC403CS

Semester: 4 Section: 1,2,3 Time: 1 hr

Faculty: GSS, MVRJ, KKL Marks: 20

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| Q.No. | Part – A (3 x 2 = 6 Marks) | Max  Marks | CO | BL | PIs |
| 1 | Differentiate between File System and DBMS. | 2 | 1 | 1,2 | 4.6.4 |
| 2 | What are three levels of Data Abstraction? Explain with diagram. | 2 | 1 | 1,2 | 4.3.1 |
| 3 | What is Functional Dependency? Explain with example. | 2 | 2 | 2,3 | 4.3.2 |

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| Q.No. | Part – B (2 x 7 = 14 Marks) | Max  Marks | CO | BL | PIs |
| 4 | 1. Explain the Architecture of DBMS. 2. Differentiate between Normalization and   De-normalization . | 4  3 | 1 | 1,2,4 | 4.3.1 |
| 5 | 1. Explain 1NF,2NF, 3NF ,BCNF, 4NF and 5NF with suitable examples. 2. Explain the concept of Specialization and Generalization in EER model with suitable examples. | 4  3 | 2 | 1,2,3 | 4.3.3 |
| 6 | 1. Discuss Codd Rules in detail. 2. Compare Nested Queries and Correlated Nested Queries with suitable examples. | 4  3 | 2 | 1,2,3 | 4.3.2 |

***LEGEND:*** *BL – Bloom’s Taxonomy Levels (1- Remembering, 2- Understanding, 3 – Applying, 4 –Analysing, 5 – Evaluating,*

*6 - Creating); CO – Course Outcomes ; PIs– Performance Indicators such as 1.2.1/13.1*

**Academic Year: 2021-2022 (Even Semester)**

**BE (CSE) CIE – I (Quiz – I)**

Subject: Subject Code:

Semester: Section: Time: 10 Mins

Faculty: Marks: 05