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| **P.V.P Siddhartha Institute of Technology** | | | | | | | | |
| **Department of Computer Science and Engineering** | | | | | | | | |
| **Course: B.Tech** | | **Year: III** | **Semester: I** | **Mid Term: II** | **A.Y:2023-24** | | | |
| **Course Code:**  **20CS3502** | | **Course Name: Database Management**  **Systems** | | | **Regulation: PVP20** | | | |
| **Duration:1 hr 30 min** | | **Maximum Marks:15 Marks** | | | **Date:31/10/23** | | **Session: F.N** | |
| **Answer all the Questions. Each Question carries 5Marks 3×5M=15M** | | | | | | | | |
| **Q.No** |  | | | | | **Marks** | **CO** | **Level** |
| **1.** | a) Consider the following relations and answer the queries using **relational algebra operators**  Suppliers(sID, sName, address)  Parts(pID, pName, colour)  Catalog(sID, pID, price)   1. Find the names of all red color parts 2. List the suppliers staying in ‘Delhi’ 3. Find the parts with price >2000 | | | | | **3** | **CO2** | **L3** |
| b) Discuss how triggers are used in SQL | | | | | **2** | **CO2** | **L2** |
| **2.** | Differentiate 3NF & BCNF with examples | | | | | **5** | **CO3** | **L3** |
| **3.** | Explain how Serializability is used for Concurrency Control. | | | | | **5** | **CO1** | **L2** |

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