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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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