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| **P.V.P Siddhartha Institute of Technology** |
| **Department of Computer Science and Engineering** |
| **Course: B.Tech** | **Year: II** | **Semester: I** | **Objective: I** | **A.Y:2024-25** |
| **Subject Code: 23BS1305** | **Subject Name: Discrete Mathematics and Graph Theory (DM&GT)** | **Regulation:PVP23** |
| **Duration:20 minutes** | **Maximum Marks:10 Marks** | **Date:17/09/2024** | **Session: F.N** |
| **Answer all the Questions. Each Question carries 2 Marks**  **5×2M=10M** |
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| **Q. No** |  | **Marks** | **CO** | **Level** |
| **1.** | Explain about well-formed formulas with an example. | **2** | **CO1** | **L2** |
| **2.** | Construct the truth table of (PVQ) → P | **2** | **CO1** | **L2** |
| **3.** | Construct the PDNF for X → Y using truth table? | **2** | **CO1** | **L2** |
| **4.** | Define Rule P, Rule T and Rule CP? | **2** | **CO1** | **L2** |
| **5.** | Illustrate free and bound variable in predicate logic with an example? | **2** | **CO1** | **L2** |