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| **P.V.P Siddhartha Institute of Technology(Autonomous)** | | | | | | **Signature of the Invigilator with date** | | | **Marks Obtained** | |
| **Department of Computer Science and Engineering** | | | | | |  | | |  | |
| **Course: B.Tech** | | **Year: II** | **Semester: I** | | **Objective: II** |
| **Regulation:PVP23** | | **Maximum Marks:10 Marks** | | | **Session: F.N** |
| **A.Y:2024-25** | | **Date:26-11-2024** | | | **Duration:20 min** |
| **Subject Code: 23BS1305** | | **Subject Name: Discrete Mathematics and Graph Theory (DM&GT)** | | | | | | | | |
| **Registered Number:** | | | | **Student Name:** | | | | | | |
| **Answer all the Questions. Each Question carries 2 Marks 5×2M=10M** | | | | | | | | | | |
|  | | | | | | | | | | |
| **Q. No** |  | | | | | | **Marks** | **CO** | | **Level** |
| **1.** | What is fibonacci sequence? Find the recurrence relation. | | | | | | **2** | **CO3** | | **L2** |
| **2.** | Compare partially ordering relation and an equivalence relation on a set. | | | | | | **2** | **CO4** | | **L2** |
| **3.** | Illustrate walk, path and trail with an example. | | | | | | **2** | **CO4** | | **L2** |
| **4.** | Explain the importance of Euler’s formula. | | | | | | **2** | **CO4** | | **L2** |
| **5.** | Define a tree and list the any two properties of a tree. | | | | | | **2** | **CO4** | | **L2** |