|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **P.V.P Siddhartha Institute of Technology** | | | | | | | | |
| **Department of Computer Science & Engineering** | | | | | | | | |
| **Course: B.Tech** | | **Year: III** | **Semester: II** | **Descriptive Exam - II** | | **A.Y:2023-24** | | |
| **Subject Code: 20CS3601** | | **Subject Name: Compiler Design** | | | | **Regulation: PVP20** | | |
| **Duration:1hr 30Min** | | **Maximum Marks:15 Marks** | | | | **Date:26-03-2024** | | |
| **Answer all the questions. Each question carries 5M 5 X 3 = 15M** | | | | | | | | |
| **Q.No** | **Questions** | | | | **Marks** | | **CO** | **Level** |
|  | **Construct the SLR parse table for the given grammar and Justify the input string abab is parsed or not.**  **S → BS / b, B → SB / a** | | | | **5** | | **CO3** | **L4** |
|  | | | | | | | | |
|  | 1. **Construct LALR(1) parse table for the given grammar.**   **S→Aa / bAc / dc / bda**  **A→d** | | | | **2.5** | | **CO5** | **L3** |
| 1. **Explain different storage allocation strategies.** | | | | **2.5** | | **CO1** | **L2** |
|  | | | | | | | | |
|  | **Identify various machine independent code optimization techniques and explain with examples.** | | | | **5** | | **CO4** | **L3** |