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| **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** |
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|  | 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** |