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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:2024-25** |
| **Subject Code: 20CS3601**  | **Subject Name: Compiler Design** | **Regulation: PVP20** |
| **Duration:1hr 30Min** | **Maximum Marks:15 Marks** | **Date:24-03-2025** |
| **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.S->L=R S->R L->\*R L-> id R->L | 5 | CO3 | L3 |
|  |
|  | 1. Justify whether the given grammar is LALR(1) or not.

S→CC C→cC C->d | 3 | CO5 | L4 |
| 1. Translate the following expression into quadruples, triples and indirect triples.

(a \* b) + (c + d) – (a + b + c + d) | 2 | CO4 | L3 |
|  |
|  | Consider the following source codep=0;i=1;do{ p=p+a[i]\*b[i]; i=i+1;}while(i<=10);1. Partition the given source code into blocks
2. Construct the flow graph
 | 5 | CO4 | L3 |

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