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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 code  p=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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