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| **P.V.P Siddhartha Institute of Technology** |
| **Department of Computer Science and Engineering** |
| **Course: B.Tech.** | **Year: III** | **Semester: II** | **A.Y:2023–24** | **Date:** |
| **Subject Code:** 20**CS3601** | **Subject Name: Compiler Design** | **Regulation:PVP20** |
| **ASSIGNMENT-2** |
| **Q. No** | **QUESTION** | **CO** | **Level** |
|  | Construct CLR parsing table for the given context-free grammar S–>AA  A–>aA|b |  |  |
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|  | Covert the following statements into the Quadruple, Triple and Indirect triple representation:A = -B\*(C+D) |  |  |
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|  | Sketch syntax tree for the expression a=b\*– c+b\*– c. |  |  |
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|  | Construct Three Address Code for the following expression: (a \* b) + (c + d) – (a + b + c + d) |  |  |
| Construct DAG for the following statement. a+b\*c+d+b\*c. |  |  |
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|  | Show the following grammar is LALR(1) S → Aa / bAc / dc / bda A → d |  |  |
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|  | Compare different storage allocation strategies. |  |  |
| Analyze the given code and apply copy propagationx=t3a[t2]=t5a[t4]=xgot to B2 |  |  |
| Analyze the given code and identify dead code/ Not reachable code.x=a\*by=a+cz=y+d |  |  |
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