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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 - I** | **A.Y:2023-24** |
| **Subject Code: 20CS3601**  | **Subject Name: Compiler Design** | **Regulation: PVP20** |
| **Duration:1hr 30Min** | **Maximum Marks:15 Marks** | **Date:29-01-2024** |
| **Answer all the questions. Each question carries 5M 5 X 3 = 15M** |
| **Q.No** | **Questions** | **Marks** | **CO** | **Level** |
| **1(a)** | **Discuss the phases of a compiler indicating the inputs and outputs of each phase in translating the statement** **“S = T + Q \* 10”.**  | **3** | **CO1** | **L2** |
| **1(b)** | **Discuss about the input buffering scheme in lexical analyzer.** | **2** | **CO1** | **L2** |
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| **2(a)** | **Eliminate left recursion from the given grammar.** **E->EZM/M/2M****M->MUF/F****E->a****Z->b****M->c****U->d****F->e** | **2.5** | **CO2** | **L3** |
| **2(b)** | **Consider the following grammar** **S→A** **A→aB | Ad** **B→bBC | f** **C→g****Construct predictive parsing table for the grammar and Analyse whether the given grammar is LL(l) or not.** | **2.5** | **CO5** | **L4** |
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| **3** | **Consider the following grammar:** **Construct shift reduce parsing of the input string “id+id+id”.** | **5** | **CO3** | **L3** |