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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:2024–25** | | **Date:10-01-2025** | | |
| **Subject Code:** 20**CS3601** | | | **Subject Name: Compiler Design** | | | **Regulation:PVP20** | | | |
| **QUESTION BANK FOR ASSIGNMENT-1** | | | | | | | | | |
| **Q. No** | | **QUESTION** | | | | | | **CO** | **Level** |
| **1** |  | Explain the diagrammatic representation of a language processing system. | | | | | | CO1 | L2 |
|  | | | | | | | | | |
| **2** |  | Explain the role and functions of lexical analyzer with the possible error recovery actions. | | | | | | CO1 | L2 |
|  | | | | | | | | | |
| **3** |  | Compute FIRST and FOLLOW for the following grammar  S→Aa|bAc|Bc|bBa  A→d  B→d | | | | | | CO5 | L4 |
|  | | | | | | | | | |
| **4** |  | Obtain the stack implementation of shift reduce parser for the input string id1+ id2\*id3 for the following grammar  E→E+E E→E\*E E→ (E) E→id  and check whether the string can be parsed or not | | | | | | CO5 | L4 |
|  | | | | | | | | | |
| **5** |  | Classify various parsing techniques | | | | | | CO5 | L4 |
|  | | | | | | | | | |
| **6** |  | Inspect whether the following grammar is LL(1) or not  A → ABd | Aa | a  B → Be | b | | | | | | CO5 | L4 |
|  | | | | | | | | | |