DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING STUDENT LAB REPORT SHEET

COMPILER DESIGN LAB (PCS-601)

Name of Student ……………………………………...…………. Mo. No………………….……….………….. Address Permanent …….…………………………………………………………………………..……………..

Father’s Name ………………………………..……………… Mo No ……………………… Mother’s Name ……………………………………………… Mo No…………..…………..

Section ……..……….Branch……………………Semester…………….. Class Roll No……………..

Local Address……………………………………………………Email……………. ……Grade A B C

**Marks** 5 3 1

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| **S.** | **Name of the Experiment** | **D.O.P.** | **Date of** | **Grade** | **Grade** | **Total** | **Student’s** | **Teacher’s** |
| **No.** | **Submiss-** | **(Viva)** | **(Report** | **Marks** | **Signature** | **Signature** |
|  | **ion** |  | **File)** | **(out of** |  |  |
|  |  |  |  | **10)** |  |  |
| **1** | Study about Lex and Yacc tools. |  |  |  |  |  |  |  |
| **2** | Design a LEX Code to count the number of lines, space, tab-meta character and rest of characters in a given Input pattern. |  |  |  |  |  |  |  |
| **3** | Design a LEX Code to identify and print valid Identifier of C in given Input pattern. |  |  |  |  |  |  |  |
| **4** | Design a LEX Code to identify and print integer and float value in given Input pattern. |  |  |  |  |  |  |  |
| **5** | Design a LEX Code for Tokenizing (Identify and print OPERATORS, SEPERATORS, KEYWORDS, and IDENTIFIERS) in the given input. |  |  |  |  |  |  |  |
| **6** | Design a LEX Code to count and print the number of total characters, words, and white spaces in given ‘Input.txt’ file. |  |  |  |  |  |  |  |

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| **7** | Design a LEX Code to replace white spaces of ‘Input.txt’ file by a single blank character into ‘Output.txt’ file. |  |  |  |  |  |  |  |
| **8** | Design a LEX Code to remove the comments from any C Program given at run time and store into ‘out.c’ file. |  |  |  |  |  |  |  |
| **9** | Design a LEX Code to extract all html tags in the given HTML file at run time and store into Text  file given at run time. |  |  |  |  |  |  |  |
| **10** | Design a LEX Code to recognize and print the following tokens: a) string b) keywords c) constantsd) identifiers e) literals |  |  |  |  |  |  |  |
| **11** | Design a LEX Code to take check whether the given number is even or odd. |  |  |  |  |  |  |  |
| **12** | Design a LEX Code to count number of vowels and consonants in a given pattern. |  |  |  |  |  |  |  |
| **13** | Design a LEX Code to check for a valid E-mail Id. |  |  |  |  |  |  |  |
| **14** | Design a DFA in LEX Code which accepts all possible set of string containing even number of ‘a’ over input alphabet Σ = {a, b}. |  |  |  |  |  |  |  |
| **15** | Design a DFA in LEX Code which accepts all possible set of string containing even number of ‘a’ and even number of ‘b’ over input alphabet Σ = {a,b}. |  |  |  |  |  |  |  |
| **16** | Design a DFA in LEX Code to Identify and print Integer, Float Constants and Identifier. |  |  |  |  |  |  |  |
| **17** | Design a DFA in LEX Code over Σ = {a, b} which contains set of all possible strings where every string starts with a and ends with b. |  |  |  |  |  |  |  |
| **18** | Design a DFA in LEX Code over Σ = {a, b} which contains set of all possible strings where no. of a and no. of b divisible by 3. |  |  |  |  |  |  |  |
| **19** | Design LEX code to identify and print all the valid IP address in the given string. |  |  |  |  |  |  |  |
| **20** | Design a LEX Code to identify and list all the hexadecimal no. from input string. |  |  |  |  |  |  |  |
| **21** | Design a LEX Code to calculate the frequency of letters in a given input string. |  |  |  |  |  |  |  |
| **22** | Design a LEX Code to reverse the order of each word in the given input string. |  |  |  |  |  |  |  |
| **23** |  |  |  |  |  |  |  |  |

Total No of Practical allotted: ……………………………………… Total No of Practical completed: …………………………………. Percentage Attendance of Practical: …………………………….