

2022

MCA

2nd Semester Examination

COMPILER DESIGN LAB.

PAPER—MCA-299

(Practical)

Full Marks : 50

Time : 3 Hours

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Answer any one question on lottery basis.

1×35

1. Write a Lex/Yacc program to add line numbers to each line of a file given as an input.
2. Write a Lex/Yacc program to count the number of printf and scanf functions in a valid C program and replace them with write and read functions.

(Turn Over)

3. Write a Lex/Yacc program to check whether a given sentence is a simple, complex (that, which, who etc.) or compound (and, or, but etc.) sentence.
4. Write a Lex/Yacc program to count the number of lines, characters, spaces and words in a given multiline string.
5. Write a Lex/Yacc program to count number of comment lines in a given C program and then delete the comments from the program.
6. Write a Lex/Yacc program to recognize the strings of the form $a^n b^n$.
7. Write a Lex/Yacc program to implement a simple desk calculator.
8. Write a Lex/Yacc program to check whether a given arithmetic statement is valid or not.

Viva voce - 10

LNB - 05
