

Total Pages—03

PG/2nd Sem/MCA-299/24

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M.Sc. 2nd Semester Examination

MCA

PAPER : MCA-299

(Compiler Design Lab)

(Practical)

Full Marks : 50

Time : 3 hours

The figures in the right-hand margin indicate marks.

Answer *any one* from the following : 35

1. Write Lex/Yacc program to count the type of numbers given as input.
2. Write a Lex/Yacc program to count the number of vowels and consonants in a given sentence.
3. Write a Lex/Yacc program to count the number of lines, words, characters in a given string.

(2)

4. Write a Lex/Yacc program to count the number of variables or identifiers in a given program.
5. Write a Lex/Yacc program to check whether a given sentence is a simple or compound statement.
6. Write a Lex/Yacc program to delete the comments in a given file and copy the program to a separate file.
7. Write a Lex/Yacc program to prepend line numbers to each line of a given file.
8. Write a Lex/Yacc program to delete blank lines and then count the number of lines of a given file.
9. Write a Lex/Yacc program to implement a simple desk calculator.
10. Write a Lex/Yacc program to check a given arithmetic statement is valid or not.
11. Write a Lex program to count the number of printf and scanf statements.
12. Write a program to find whether given number is octal or hexadecimal.

(3)

13. Write a lex program to compute the first of a given grammar.

Distribution of marks :

Viva	10
PNB	5
