2017

MCA

4th SEMESTER EXAMINATION

COMPILER LAB

PAPER—MCA-408

(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.

Illustrate the answers wherever necessary.

Answer any *two* on *lottery basis.*   20×2

1. Write a program in LEX/YACC to recognize a valid arithmetic expression and to recognize the identifier and operators present. Print them separately.

2. Write a program in LEX / YACC to count number of characters words, black and lines in a given string.

3. Write a program to recognize valid reserved keywords, valid identifier and numbers in LEX.

(Turn Over)

4. Write a program to find whether a given number is Binary, Octal or Hexadecimal.

5. Write a LEX program to count the number of comment lines in a given C program. Also eliminate them and copy the resulting program into separate title.

6. Write a program using LEX to recognize and count the number of identifier and keywords present in a given input file.

7. Write a program in LEX / YACC to insert line numbers to each line of a given file.

8. Write a program in LEX / YACC which takes an english statement as input and gives the output as the parts of speech.

9. Write a program in LEX / YACC to construct a desk calculator.

10. Write a program to count. "HE" within a file containing "HE" and "SHE". Replace all "HE" by "IT".

PNB :	5 marks
Viva Voce :	5 marks

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