

21P338

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Name:

Reg.No:

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2022

(CBCSS - PG)

(Regular/Supplementary/Improvement)

CC19P CSS3 C13 - PRINCIPLES OF COMPILERS

(Computer Science)

(2019 Admission onwards)

Time : 3 Hours

Maximum : 30 Weightage

Part-A

Answer any *four* questions. Each question carries 2 weightage.

1. Explain about language translator.
2. Illustrate ambiguity.
3. Discuss the significance of LR parsers.
4. Explain BREAK CONTINUE and GOTO statement.
5. Explain Memory Hierarchy.
6. Explain Dead Code Elimination.
7. Explain Data flow schemas on basic blocks.

(4 × 2 = 8 Weightage)

Part-B

Answer any *four* questions. Each question carries 3 weightage.

8. Explain conversion of NFA to DFA.
9. Explain about parsing.
10. Illustrate about Top Down parsing.
11. Describe Static Simple Assignment form.
12. Explain activation trees and records.
13. Explain access to non local data on the stack.
14. Explain issues in the design of a code generator.

(4 × 3 = 12 Weightage)

Part-C

Answer any *two* questions. Each question carries 5 weightage.

15. Explain applications of compiler technology.

16. Examine whether the below grammar is LL(1) or not? $S \rightarrow AB\$$ $A \rightarrow xA$ $A \rightarrow B$ $B \rightarrow yzB$ $B \rightarrow z$.
17. Discuss type checking.
18. Explain basic blocks and flow graphs.

(2 × 5 = 10 Weightage)
