K23U 0482

Reg. No. : .....

Name : .....

VI Semester B.Sc. Degree (CBCSS – OBE – Regular/Supplementary/ Improvement) Examination, April 2023
(2019 and 2020 Admissions)
CORE COURSE IN COMPUTER SCIENCE
6B13CSC : Compiler Design

Time : 3 Hours Max. Marks : 40

PART – A

(Short Answer)

Answer **all** questions. **(6×1=6)**

1. Define Token.
2. What is source code analysis ?
3. What is Preprocessor ?
4. Define DFA.
5. Define Symbol table.
6. What is left factoring ?

PART – B

(Short Essay)

Answer **any 6** questions. **(6×2=12)**

7. Write a note on grouping of phases.
8. Differentiate Top down parsing and Bottom up parsing.

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9. Write a note on Target Machine.
10. What is meant by syntax analysis ?
11. Discuss the types of Finite Automata.
12. Explain any two functions of Lexical analyser.
13. Differentiate interpreter and compiler.
14. Write a note on shift reduce parser.

PART – C
(Essay)

Answer **any 4** questions. **(4×3=12)**

15. Explain compiler construction tools.
16. Briefly explain the concept of input buffering.
17. Explain the role of Parser.
18. Discuss the issues in the design of code generator.
19. Write a note on loops in flow graphs.
20. Discuss the principal sources of optimization.

PART – D
(Long Essay)

Answer **any 2** questions. **(2×5=10)**

21. Explain different phases of compiler with example.
22. Briefly explain the specification of Tokens.
23. Explain Recursive Descent Parsing.
24. Write a note on different intermediate code representations.

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