



K22U 0382

Reg. No. :

Name :

VI Semester B.Sc. Degree (CBCSS – OBE – Regular)

Examination, April 2022

(2019 Admission)

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 compiler.
2. What is the role of a preprocessor ?
3. Define parse tree.
4. Define NFA.
5. What are the different types of errors ?
6. Define instruction cost.

PART – B

Short Essay

Answer any 6 questions.

(6×2=12)

7. What is syntax error ? Give an example.
8. Define tokens and patterns.
9. Define transition diagrams.
10. What are the error recovery strategies of a parser for syntax errors ?

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11. Describe any two compiler construction tools.
12. Define ambiguous grammar. Give an example.
13. Define peephole optimization technique.
14. List the structure preserving transformations.

PART – C
Essay

Answer **any 4** questions.

(4x3=12)

15. Explain the phases of analyzing a source program.
16. What are the generic issues to be considered in the design of code generators ?
17. Explain the role of a parser in compiler.
18. Define symbol table. Give its structure.
19. Write a note on Intermediate languages.
20. What do you mean by the analysis-Synthesis Model of Compilation ?

PART – D
Long Essay

Answer **any 2** questions.

(2x5=10)

21. Explain the phases of a compiler with an example.
22. Explain the lexical analyzer.
23. Explain different types of parsing.
24. Explain code optimization.