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 ?

P.T.O.

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. **(4×3=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. **(2×5=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.
