



K19U 0096

Reg. No. :

Name :

VI Semester B.Sc. Degree (CBCSS – Reg./Supple./Improv.)
Examination, April 2019
(2014 Admission Onwards)
CORE COURSE IN COMPUTER SCIENCE
6B16CSC-E04 : Compiler Design

Time : 3 Hours

Max. Marks : 40

SECTION – A

One word answer :

(8x.5=4)

1. a) A source programs needs to be _____ before being translated to an object program.
- b) Tools used to construct compilers are commonly called _____
- c) The nondeterministic finite automaton is a _____
- d) A grammar for which the parsing table has uniquely defined entries is called _____
- e) Symbol table is a linear array of _____
- f) A misspelled keyword is a _____ type of error.
- g) A parsing strategy used in top down parsing is _____
- h) Predictive parsing does not suffer from _____

SECTION – B

Write short notes on **any seven** of the following questions :

(7x2=14)

2. What is a compiler ?
3. What is intermediate code ?
4. What is a regular expression ?

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5. What is context free grammars ?
6. What is a handle ?
7. Define LR grammar.
8. What is a symbol table ?
9. What are syntactic errors ?
10. What is the role of search trees for symbol table organization ?
11. What is shift-reduce parsing ?

SECTION - C

Answer **any four** of the following questions :

(4x3=12)

12. Explain about finite automata.
13. Explain loop optimization.
14. What are compiler-compilers ?
15. What is predictive parsing ?
16. Write notes on shorthands.
17. What are parse trees ? How is it represented ?

SECTION - D

Answer **any two** of the following questions:-

(2x5=10)

18. Explain top down parsing.
19. Discuss about data structures used to represent symbol tables.
20. How can we design a lexical analyzer ?
21. Explain the phases of a compiler.