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Reg. No.:

VI Semester B.Sc. Degree (CBCSS - Regular) Examination, May 2017 (2014 Admn.)

CORE COURSE IN COMPUTER SCIENCE

(Elective)

6B16CSC: E04 : Compiler Design

Time: 3 Hours Marks: 40

SECTION-A

O	ne word answer. (8×0.5 = 4 Marks)
a)	The preprocessor may expand shorthands into source language statements called
b)	Lexical analyzer produces as outputform.
c)	produce collections of routines for walking a parse tree and generating intermediate code.
d)	A grammar produces more than one parse tree for some sentence is
e)	is a form of bottom-up parsing in which stack holds grammar symbol and an input buffer holds the rest of the string to be parsed.
f)	can built by maintaining a stack explicitly rather than implicitly through recursive calls.
g)	The construction of a parse tree for an input string beginning at the leaves and working up towards the root called
h)	Writing invalid program logic that produces incorrect results when the instructions are executed called

SECTION - B

Write short notes on any seven of the following questions.

(7x2=14 Marks)

- 2. What is compiler?
- 3. Define syntax analysis.





- 4. What is symbol table management?
- 5. Explain backtracking.
- 6. What is left most derivation and right most derivation?
- 7. List out the two tokens are adding are based on handle pruning.
- 8. What are the uses of symbol table?
- 9. Write a note on topdown parsing.
- 10. Define SLR parsing tree.
- 11. What you mean by context free grammar?

SECTION - C

Answer any four of the following questions.

 $(4\times3=12 \text{ Marks})$

- 12. Difference between syntax analysis and lexical analysis.
- 13. Difference between LL and LR.
- 14. Construct an expression grammar using shift reduce parser on input string is x*y.
- 15. List out the steps involve in top-down parse tree. Give example.
- 16. Write the implementation performs in symbol table.
- 17. Differentiate SLR and LALR.

SECTION - D

Answerany two of the following questions.

 $(2\times5=10 \text{ Marks})$

- 18. Explain structure of a compiler.
- 19. Brief note the role of lexical analyzer.
- 20. Explain in detail bottom up parsing. Give example.
- 21. Explain hierarchical structure in global symbol table and scope symbol table.