

Roll No.

Total Pages : 2

8918

BT-7/D09
COMPILER DESIGN

(2006-07)

Paper : IT-445

Opt. (i)

Time : Three Hours]

[Maximum Marks : 75

Note : Attempt only *five* questions. All questions carry equal marks.

1. Explain different phases of Compiler. 15
2. Explain the implementation of Lexical analyzer with a suitable example. 15

3. Consider the following grammar :

$S \rightarrow AB$

$A \rightarrow aAb/ab$

$B \rightarrow Bc/c$

Write the leftmost as well as right most derivation sequence for the string aabbcc. 15

4. Explain the construction of SLR parsing table with example. 15
5. Explain the advantages and disadvantages of short circuit evaluation of Boolean expressions with a suitable example. 15
6. Explain the process of error recovery in LR parsing with a

8918/1000/KD/244

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suitable example. 15

7. What is the principal source of Optimization ? Explain the algorithm to partition three address code into basic blocks. 15

8. Explain the following :

- (a) Problems in Code generation. 15
- (b) Regular allocation and assignment.