

MAY 2012

P/ID 17432/RTB

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Time : Three hours

Maximum : 75 marks

PART A — (5 × 5 = 25 marks)

Answer ALL questions.

All questions carry equal marks.

1. (a) Write short notes on computers and translators.

Or

- (b) Write short notes on Macros.

2. (a) Explain parse tree with an example.

Or

- (b) Write short notes on Ambiguity.

3. (a) Explain Semantic actions.

Or

- (b) Write short notes on postfix notations.

4. (a) Explain inner loops in code optimization.

Or

- (b) Discuss on Algorithm optimization.

5. (a) Explain the environment of code generation.

Or

- (b) What is the purpose of code generation algorithm? Discuss.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

All questions carry equal marks.

6. Explain in detail the phases of a compiler.
7. Discuss a single approach to design lexical analysers.
8. Discuss on shift reduce parsing.
9. Explain operator precedence parsing.
10. Discuss on the methods of translating the Boolean expressions.

11. Explain in detail the loop optimization.
  12. What are the problems in code generation?  
Discuss.
  13. Explain the machine model in code generation.
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