

MAY 2014

**P/ID 17503/PCASC**

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Time : Three hours

Maximum : 100 marks

PART A — (6 × 5 = 30 marks)

Answer any SIX questions.

1. What is language processor? What are the requirements it should meet?
2. Narrate the language processor development tools.
3. Write short notes on various kinds of statements used in assembly language.
4. What is nested macro call? Give an example.
5. Enumerate static and dynamic memory allocation briefly.
6. Define side effect. Give an example.
7. What is relocation? How do you perform it?
8. List out the steps involved in dynamic debugging of a program.

PART B — (7 × 10 = 70 marks)

Answer any SEVEN questions.

9. What is language processing? Discuss the components of language processing.
10. Write a detailed on hash table organization.

11. Describe pass I of the two pass assembler.
  12. Explain the various arithmetic instruction formats of Intel 8088 with examples.
  13. What is macro expansion? Discuss the two key notions concerning macro expansion in detail.
  14. Explain the design overview and data structures of macro preprocessor.
  15. Write a detailed note on various methods to generate intermediate code for expressions.
  16. What is data flow analysis? Discuss with an example.
  17. Explain the design of the linker in detail.
  18. Write a detailed note on user interfaces.
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