MAY 2015 **P/ID 17503/PCASC**

Time : Three hours Maximum : 100 marks

PART A — (6 × 5 = 30 marks)

Answer SIX questions.

1. Narrate any two components of language processing.

2. What is heap? Write a note on memory management.

3. Illustrate the advanced assembler directives.

4. Develop an algorithm for macro expansion.

5. Write short notes on the aspects of compilation.

6. What is recursion? Write a program in PASCAL to generate the fibonacci series upto n terms using recursion.

7. Write short notes on self-relocating programs.

8. Write a neat sketch, explain the design of an editor briefly.

PART B — (7 × 10 = 70 marks)

Answer any SEVEN questions.

9. Discuss the fundamentals of language specification.

10. With an example, explain operator precedence parsing.

11. Describe pass II of two pass assembler.

12. Write a detailed note on the assembly language of Intel 8088.

13. What are the key notions concerning macro expansion? Discuss in detail.

14. Explain the key data structures of the macro pre processor.

15. How is memory allocation performed in block structured languages?

16. Write a detailed note on compliation of control structures.

17. Describe the design of a linker in detail.

18. Write short notes on the following

(a) Linking for overlays. (5)

(b) Debug monitors. (5)

———————