OCTOBER 2013   **P/ID 17503/PCASC**

Time : Three hours   Maximum : 100 marks

PART A — (6 × 5 = 30 marks)

Answer any SIX questions.

1. What are scanners? Describe their functions.

2. Describe an example of a simple assembly scheme.

3. Write about sequential search organization for assemblers.

4. Compare assemblers and compilers.

5. Write about Macro's conditional assembly.

6. Describe the synthesis phase of compilers.

7. Describe the linking for program overlays.

8. Write about the aspects of program relocation.

PART B — (7 × 10 = 70 marks)

Answer any SEVEN questions.

9. Summarise the data structures required for language processing.

10. Describe the pass 1 of the assembler.

11. Explain the features of IBM/360 assembly language.

12. Write about the following in Macro with examples.

    (a) Positional parameters

    (b) Keyword parameters.

13. Describe the data structures and algorithm for design of a macro pre-processor.

14. Illustrate the process of local optimization in compilers.

15. Illustrate precedence matrix and transition matrix for compilation of expressions.

16. Explain the stages of compilation and execution of an assembly language program.

17. Discuss on user Interfaces.

18. Discuss on software tools for program development.

————————