Seat No.	

T.E. (Computer Science & Engineering) (Semester-V) (New) Examination, June-2014
SYSTEM PROGRAMMING
Sub. Code : 45602

Day and Date : Thursday, 05-06-2014   **Total Marks : 100**
Time : 2.30 p.m. to 5.30 p.m.

Instructions :
1) Question Nos. 4 and 8 are compulsory.
2) Answer any two questions from remaining of each section.
3) Figures to the right indicate full marks.

SECTION-I

Q1) a) Explain the fundamentals of language specification.   **[8]**

b) Explain the Pass-I of two pass assembler.   **[8]**

Q2) a) Discuss in detail; along with sketch/block diagram; the design of a macro preprocessor.   **[8]**

b) What is meant by intermediate representation of program? Explain in detail.   **[8]**

Q3) a) Discuss in detail processing of declarations and assembler directives.   **[8]**

b) State and discuss the advanced macro facilities with an example each.   **[8]**

Q4) Write short note on: **[18]**

a) Language processor development tools.

b) Pass structure of assemblers.

c) Nested macro calls.

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SECTION-II

Q5) a) With example - explain the Compilation of expressions. **[8]**

b) Explain in detail - Memory Allocation Techniques. **[8]**

Q6) a) Explain with suitable example - Relocation and linking concepts. **[8]**

b) Explain in detail - Design of a linker. **[8]**

Q7) a) Explain in detail - Software tools for program development. **[8]**

b) Explain with suitable diagram - editor & its types. **[8]**

Q8) Write short notes on (Any Three): **[18]**

a) Programming Environments.

b) User Interfaces.

c) Concepts of Linux programming.

d) Self-relocating programs.

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