Seat
No.

T.E. (Computer Science and Engg.) (Semester - V)
Examination, April - 2019
SYSTEM PROGRAMMING
Sub. Code : 66294

Day and Date : Saturday, 27 - 04 - 2019   Total Marks : 100

Time : 02.30 p.m. to 05.30 p.m.

Instructions :   1)   Question No. 4 and 8 are compulsory.

                   2)   Answer any two questions from Question No. 1, 2 and 3.

                   3)   Answer any two questions from Question No. 5, 6 and 7.

                   4)   Figures to right indicate full marks.

Q1) a)   What is Language Processor? Explain in detail Language Processing Activities. **[8]**

      b)   Discuss in detail fundamentals of Language specifications. **[8]**

Q2) a)   Explain Intermediate Representation with an illustrative example. **[8]**

      b)   How the problem of Forward Reference is resolved in Assembler? **[8]**

Q3) a)   Write about MACRO Definition and Call with syntax and Example. **[8]**

      b)   Discuss in detail, along with sketch/block diagram, the design of a macro Preprocessor. **[8]**

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

      a)   Toy Compiler.

      b)   Advanced macro facilities.

      c)   LEX and YACC LPDT's.

Q5) a)   What is the Role of Operand Descriptor in the choice of instruction in target Code of Toy code generator. **[8]**

      b)   Discuss in detail with example; Triples and Quadruples. **[8]**

P.T.O.

Q6) a) Explain Memory Allocation in Block Structured Language. [8]

    b) Write in detail; Execution of Overlay structured programs. [8]

Q7) a) What is Relocation? Discuss Role of Relocation factor to perform Relocation. [8]

    b) Give the Structure of UI with neat Diagram. [8]

Q8) Write short note on: (Solve any three) [18]

    a) Steps in Program Development.

    b) Debug Monitor.

    c) Compilation of Control Structures.

    d) Text Editor

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