Seat No.	

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

Day and Date : Monday, 25 - 11 - 2019 **Total Marks : 100**
Time : 2.30 p.m. to 5.30 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

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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]**

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

b) Write in detail; Intermediate code for Expression. **[8]**

Q7) a) Explain Design of an Editor with suitable diagram. **[8]**

b) Write and Explain Relocation Algorithm. **[8]**

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

a) Steps in Program Development.

b) Debug Monitor.

c) Compilation of Control Structures.

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