

SC-183

Total No. of Pages : 2

Seat No.	
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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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SC-183

- 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.

