SV-198

Total No. of Pages : 2

Seat No.	

T.E. (Computer Science Engg.) (Semester - V)
Examination, April - 2018
SYSTEM PROGRAMMING
Sub. Code : 66294

Day and Date : Wednesday, 25- 4 - 2018 **Total Marks : 100**

Time : 10.00 a.m. to 1.00 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 the right indicate full marks.**

Q1) a) Explain language processor development tools. **[8]**

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

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

b) Explain the fundamentals of language processing. **[8]**

Q3) a) Write in detail pass structure of an assembler. **[8]**

b) Explain nested macro calls with an illustrative example. **[8]**

Q4) Write a short note on: (6 marks each) **[18]**

a) Macro Definition and Call.

b) Assembler Directives.

c) Language Processors.

P.T.O.

Q5) a) State and discuss Linking for overlays. **[8]**

b) Explain parameter passing mechanism in Compilation. **[8]**

Q6) a) Write in detail for Intermediate code generation for Expression. **[8]**

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

Q7) a) Explain Memory Allocation in Block Structured Languages with sutiable diagram. **[8]**

b) Discuss in detail; Steps in Program Development. **[8]**

Q8) Write a short note on: (Solve any three: each carries 6 marks) **[18]**

a) User Interfaces.

b) Absolute Loader.

c) Compilation of Control Structures.

d) Software Tools for program development.