

Seat No.	
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**T.E. (Computer Science and Engg.) (Semester - V)**

**Examination, November - 2017**

**SYSTEM PROGRAMMING**

**Sub. Code: 66294**

**Day and Date :Saturday, 11 - 11 - 2017**

**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 right indicate full marks.

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

b) Explain Pass I of a two pass assembler. [8]

**Q2) a)** State and discuss the advanced macro facilities with an example each. [8]

b) Discuss language processing activities in detail. [8]

**Q3) a)** List and discuss elements of assembly language programming. [8]

b) Explain different data structures of the macro preprocessor with its contents in detail. [8]

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

- a) Macro Expansion.
- b) Intermediate Code Forms.
- c) LEX and YACC LPDT's.

**P.T.O.**

- Q5)** a) Explain use of Interpreters. What are Pure and Impure Interpreters? [8]  
b) Explain code optimization in compilation. Brief about Local and Global code optimization. [8]
- Q6)** a) Give the Structure of UI with neat diagram. [8]  
b) Write and Explain Linking Algorithm. [8]
- Q7)** a) Explain about the Tools used in Enhancement of Program Performance.[8]  
b) What is Command Dialog? Explain ways to implement Command Dialogs. [8]
- Q8)** Write a short note on: (Solve any three: each carries 6 marks.) [18]  
a) Program Development.  
b) Two passes of Linker.  
c) Program Relocation.  
d) Memory Allocation in Compilers.

