

SF - 228

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| 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
Time :10.00 a.m. to 1.00 p.m.

Total Marks : 100

- 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.

