

Seat No.	
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SL-468

Total No. of Pages : 2

**T.E. (Computer Science and Engineering) (Semester-V)
(Theory) Examination, May - 2017**

SYSTEM PROGRAMMING

Sub. Code : 66294

Day and Date : Tuesday, 16-05-2017

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) What is meant by intermediate representation of program? Explain in detail. **[8]**

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

Q2) a) Write in detail pass structure of an assembler. **[8]**

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

Q3) a) State and explain various advanced macro facilities with an example each. **[8]**

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

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

- a) LEX and YACC LPDT's.
- b) Assembly Language Statements.
- c) Macro Definition and Call.

P.T.O.

- Q5)** a) What is program Relocation and how it is performed? [8]
b) Discuss in detail; steps in program Development. [8]
- Q6)** a) Explain Code Optimization in compilation. Brief about Local & Global Code optimization. [8]
b) Explain Compilation of expression. [8]
- Q7)** a) Explain structure & design of an Editor with neat Diagram. [8]
b) Write and Explain Linking Algorithm. [8]
- Q8)** Write a short notes on (Solve any three 6 mark each). [18]
a) Loader in MS-DOS.
b) Command Dialog.
c) Parameter passing mechanism.
d) Programming Environments.

