



304188

Seat No.	
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**T.E. (E&TC) (Semester – II) Examination, 2014
SYSTEM PROGRAMMING AND OPERATING SYSTEM
(2008 Pattern) (New)**

Time : 3 Hours

Max. Marks : 100

- Instructions :** 1) Solve Q. 1 or Q. 2, Q. 3 or Q. 4, Q. 5 or Q. 6 from Section I,
Q. 7 or Q. 8, Q. 9 or Q. 10, Q. 11 or Q. 12 from Section II.
2) Answers to the **two** Sections should be written in **separate** books.
3) Figures to the **right** indicates **full** marks.
4) Electronic calculator is **allowed**.
5) **Assume** suitable data, if necessary.

SECTION – I

1. a) Describe the language processor in detail with various language processing activities. 8
 b) Design and explain assembler pass-II of two pass assembler in detail. 8
 c) What is a LTOrg Statement ? 2

OR
2. a) Explain different development tools used to develop language processor. 6
 b) Explain different data structures used for language processing. 8
 c) Explain ORIGIN and EQU statement. 4
3. a) What are different phases of compiler and explain each with example. 8
 b) Explain the terms : 8
 - 1) Macro definition
 - 2) Macro calls
 - 3) Macro expansion
 - 4) Nested macro calls

OR
4. a) Explain design of two pass MACRO processor in detail. 8
 b) Explain parameter passing mechanisms : 8
 - 1) Call by value
 - 2) Call by reference
 - 3) Call by result
 - 4) Call by name.

P.T.O.



OR

OR

OR

OR