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P5027	[Total No. of Pages :1

TE / INSEM - 525

T.E. (**E&Tc**)

SYSTEM PROGRAMMING AND OPERATING SYSTEM

(2012 Pattern) Time: 1 Hour] [Max. Marks:30 Instructions to the candidates: Answer Q.1, or Q.2, Q.3 or Q.4, Q.5 or Q.6. Neat diagrams must be drawn wherever necessary. Figures to the right side indicate full Marks. Assume suitable data, if necessary. 4) **Q1)** a) Describe how to design pass one of two pass assembler. [6] What do you mean by a literal? State its advantages. b) [4] OR Explain language processor with example [6] *02*) a) Explian various data structures used for language processing. b) [4] Explain interpreters with suitable diagram. **Q3**) a) [4] b) What are different advanced MACRO facilities? Explain it with examples. [6] OR Explain macro with example and describe nested macro calls with example. [6] **Q4)** a) Explain phases of compiler with examples. b) [4] What are the different software development tools necessary for **Q5)** a) development of application software? [6] b) Explain in short what the concept of relocation and linking is? [4] OR Compare absolute loader and compile - and - go loader [6] *Q6*) a) List and explain the different loader scheme in detail b) [4]