

Total No. of Questions : 6]

SEAT No. :

P5027

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**TE / INSEM - 525**

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

**SYSTEM PROGRAMMING AND OPERATING SYSTEM**

**(2012 Pattern)**

*Time : 1 Hour]*

*[Max. Marks :30*

*Instructions to the candidates:*

- 1) *Answer Q.1, or Q.2, Q.3 or Q.4, Q.5 or Q.6.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Figures to the right side indicate full Marks.*
- 4) *Assume suitable data, if necessary.*

- Q1)** a) Describe how to design pass one of two pass assembler. [6]  
b) What do you mean by a literal? State its advantages. [4]

OR

- Q2)** a) Explain language processor with example [6]  
b) Explain various data structures used for language processing. [4]

- Q3)** a) Explain interpreters with suitable diagram. [4]  
b) What are different advanced MACRO facilities? Explain it with examples. [6]

OR

- Q4)** a) Explain macro with example and describe nested macro calls with example. [6]  
b) Explain phases of compiler with examples. [4]

- Q5)** a) What are the different software development tools necessary for development of application software? [6]  
b) Explain in short what the concept of relocation and linking is? [4]

OR

- Q6)** a) Compare absolute loader and compile - and - go loader [6]  
b) List and explain the different loader scheme in detail [4]

