

Total No. of Questions : 6]

SEAT No. : 

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P25

Oct.-16/T.E./Insem.-24

T.E. (E &amp; TC ) (Semester - I)

## SYSTEM PROGRAMMING AND OPERATING SYSTEM (2012 Pattern)

Time : 1 Hour]

[Max. Marks : 30

*Instructions to the candidates:*

- 1) Answer Q1 or Q2, Q3 or Q4, Q5 or Q6.
- 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) Explain the terms terminals, non-terminals, starting symbol and production rule set with example. [6]
- b) Explain linear and nonlinear data structures [4]

OR

- Q2)** a) Explain Compilers and Interpreters [6]
- b) Explain program generation activity [4]
- www.sppuonline.com
- Q3)** a) List code optimization techniques and explain any 2 in details [6]
- b) Explain LTORG and Origin statement with example [4]

OR

- Q4)** a) Explain lexical expansion of macro with example [6]
- b) Explain static and dynamic memory allocation [4]
- Q5)** a) Explain in details design of editor [6]
- b) Explain dynamic loading and linking [4]

OR

- Q6)** a) Explain compile and go loading scheme [6]
- b) What do you mean by translated origin, linked origin and load origin [4]

