

Total No. of Questions : 6]

SEAT No. :

P3690

[Total No. of Pages :2

Engg. - 30

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

System Programming and Operating system (In Sem.)

(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 Language processing activities. **[6]**

b) Explain linear data structures. **[4]**

OR

Q2) a) Explain algorithm of pass I of two pass assembler **[6]**

b) Explain the formal programming language grammar terms non-terminals, Terminals, production rules and start symbol with example. **[4]**

Q3) a) Explain the lexical expansion of Macro with example. **[6]**

b) Explain any 2 code optimization techniques with examples. **[4]**

OR

Q4) a) Draw and Explain phases of compiler. **[6]**

b) Explain process of alteration of flow of control during macro expansion. **[4]**

P.T.O.

Q5) a) List the steps in program development. and explain any 2 steps in details [6]

b) Explain the functions of a Loader [4]

OR

Q6) a) Explain the absolute Loader Scheme [6]

b) Explain the types/forms of text editors [4]

