SEAT No. :

PE26

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[6579]-327

T.E. (Computer Engg./Computer Science) (Insem)
SYSTEMS PROGRAMMING AND OPERATING SYSTEM
(2019 Pattern) (Semester - I) (310243)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:
1) *Answer Q.1 or Q.2, Q.3 or Q.4.*
2) *Neat diagrams must be drawn wherever necessary.*
3) *Figures to the right indicate full marks.*
4) *Assume suitable data, if necessary.*

Q1) a) Explain Different assembly language statements with examples? **[7]**

b) Explain Pass I and Pass II of two pass Assemblers with suitable examples and flowcharts? **[8]**

OR

Q2) a) Explain different data structures associated with PASS 1 & PASS 2 Assembler with example and structure? **[8]**

b) What is System Programming? Explain Foundation of System Programming? **[7]**

Q3) a) Explain in detail the various phases of a compiler, describes the output for the following Expression after each phase. A= b*c + c*d **[7]**

b) What are macro processors? Explain Two Pass Macro with a suitable example and algorithm? **[8]**

OR

Q4) a) Explain different argument passing mechanism in Macros with an example?**[7]**

b) Write Short note on: **[8]**

i) Compiler and interpreter

ii) Macro and Assembler

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