Oct-22/TE/Insem - 527
T.E. (Computer Engineering)
SYSTEMS PROGRAMMING AND OPERATING SYSTEM
(2019 Pattern) (Semester - I) (310243)

Time : 1 Hour]   *[Max. Marks : 30*

Instructions to the candidates:

 1) *Neat diagrams must be drawn wherever necessary.*
 2) *Figures to the right indicate full marks.*
 3) *Assume suitable data, if necessary.*

Q1) a) Draw and explain flowchart of Pass-I of two pass assembler with suitable example. **[8]**

 b) Differentiate between literal and immediate operand. **[7]**

OR

Q2) a) Explain in detail with a suitable example, the formates and contents of databases used in assembler design. **[8]**

 b) Explain algorithm of pass 1 of two pass assembler. **[7]**

Q3) a) Define Macro. What are the advantages of macro facility? How they are different from functions? **[8]**

 b) Write Short note on **[7]**
   i) Compiler
   ii) Interpreter

OR

Q4) a) What are different data structures required for Two Pass Macro Processor? Justify which data structures are implemented at that time of processing Macro definition, Macro call and Macro Expansion. **[8]**

 b) Explain argument passing mechanism in Macros with suitable examples? **[7]**

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