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मन - 044

System Programming (1050)

P. Pages : 2

Time : Three Hours

Max. Marks : 100

Instructions to Candidates :

1. Do not write anything on question paper except Seat No.
2. Answersheet should be written with blue ink only. Graph or diagram should be drawn with the same pen being used for writing paper or black HB pencil.
3. Students should note, no supplement will be provided.
4. Attempt **any two** questions from each unit.
5. Figures to the right indicate full marks.
6. Draw suitable diagrams wherever necessary.

UNIT - I

1. a) What is need of two-pass assembler ? Explain the databases required for Pass-I of two-pass assembler ? **10**
b) What is need of system software ? Explain any four system softwares ? **10**
c) Draw and explain flowchart of Pass-I of two pass assembler ? **10**

UNIT - II

2. a) What is need of conditional macro-expansion ? Explain with example ? **10**
b) What is loader ? Explain compile and go loader with advantages and disadvantages ? **10**
c) Which are the databases required for the implementations of Macroprocessor ? Explain with formats ? **10**

UNIT - III

3. a) What is compiler ? Explain overview of compilation process ? **10**
b) What is Grammar ? Explain derivation, reduction and ambiguity of grammar ? **10**
c) Explain lexical analysis and syntax analysis phase in detail with example ? **10**

UNIT - IV

4. a) Explain Parser generator and lexical analyzer generator ? 10
- b) What is parsing ? Explain top-down and bottom-up parsing with examples ? 10
- c) What is shift reduce parser ? Explain with example ? 10

UNIT - V

5. a) Explain the concept of clipboard and OLE ? 10
- b) Explain static and dynamic memory allocation with advantages and disadvantages ? 10
- c) What is dynamic data exchange ? Explain in detail ? 10
