

Seat
No.

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CII1324

System Programming (New) (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. Assume suitable data wherever necessary.
6. Figures to the right indicate full marks.

UNIT - I

1. a) What is assembler ? Explain machine dependent and machine independent features of an assembler. **10**
b) Explain Pass - 1 and Pass - 2 of two pass assembler. **10**
c) What is system programming ? Explain various types of system programs ? Differentiate between system application software. **10**

UNIT - II

2. a) Explain features of macro facility in detail. **10**
b) Discuss databases needed in two pass macro processor. **10**
c) Discuss in brief.
i) Overlay structure. **5**
ii) Functions of loader. **5**

UNIT - III

3. a) Discuss the object records of Intel 8088 with their formats. **10**
b) Explain compilation process in detail. **10**
c) Explain the following. **10**
i) Types of compilers.
ii) Leftmost and rightmost derivation with example.
iii) Reduction of grammar with example.

UNIT - IV

4. a) Explain LEX and YACC in detail. 10
- b) What is parsing ? Explain top - down parsing. Differentiate between top down and bottom - up passing. 10
- c) Explain :
- i) Shift reduce parser. 5
- ii) Operator precedence. 5

UNIT - V

5. a) Explain concept of DDE. Also explain types of DDE conversion. 10
- b) Discuss symbol table organization with its types. 10
- c) What is clipboard ? Explain DLL in detail. 10
