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Roll No

MCADD-301

M.C.A. (Integrated), III Semester

Examination, November 2019

System Software

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) What is Assembler? What are the advantages of assembly language over machine language.
b) What are the elements of Assembly Language Programming?
2. a) What is the use of symbol table and literal table in assembler?
b) What are machine dependent assembler features?
3. a) What are the functions of Loader?
b) Explain basic linking scheme.
4. a) What are Macro? Explain Macro definition and calling by taking example.
b) Explain the functions of Macro processor.
5. a) Explain various types of editors.
b) What are the functions of debugger.

6. a) Discuss single pass. What is the use of Table of Incomplete Institutions.
b) Explain the working of two pass assemblers.
7. a) Explain the data structures used in macro processor.
b) Discuss various phases of macro processor.
8. Write short notes on any four:
 - i) Simplified Instructional Computer
 - ii) Bootstrap loader
 - iii) Dynamic linking
 - iv) System software
 - v) Macro pre-processor
