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## MCADD-301

### M.C.A. (Dual Degree/Integrated Course), III Semester

Examination, November 2018

### System Software

Time : Three Hours

Maximum Marks : 70

- Note:** i) Attempt any five questions.  
ii) All questions carry equal marks.

1. a) Explain the various types of addressing modes in hypothetical computers. 7  
b) Explain any one traditional machine architectures in detail. 7
2. a) Explain the architecture of SIC machine with suitable examples. 7  
b) Discuss in detail about multi-pass assembler. 7
3. a) Explain two pass assembler functions with suitable example. 7  
b) Explain machine dependant features of an assembler functions. 7
4. a) Explain Absolute Loader concept with algorithm. 7  
b) Explain Bootstrap loader with its program in detail. 7

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5. a) Explain machine dependant loader features in detail. 7  
b) Explain MS-DOS linker in detail. 7
6. a) What is a general purpose macro processor? Explain. 7  
b) Write notes on MASM macro processor. 7
7. a) Write an algorithm for a simple one pass macro processor. 7  
b) Explain the important functions and capabilities of an editor. 7
8. a) Explain interactive debugging system in brief. 7  
b) Explain various system software tools. 7

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