

Roll No

MCADD-301

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

Examination, June 2022

System Software

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) Briefly explain the Simplified Instructional Computer (SIC) architecture. 10
b) Write a short note on Instruction Set Format. 4
2. a) Explain the difference between Machine dependent and independent assembler features. 8
b) Discuss basic assembler functions. 6
3. a) What is Loader? Explain the basic loader functions in detail. 6
b) Explain the algorithm and data structure for a Linking Loader. 8
4. a) What is Macro Processors? Explain the basic macro processors functions in detail. 10
b) Write a short note on MASM Macro Processor. 4

- 5. a) What is interactive Debugging System? Explain its capabilities and functions. 8
- b) Briefly explain the components of an editor structure. 6
- 6. a) What is System Software? Explain types of addressing modes. 8
- b) Write a short note on Text Editor. 6
- 7. a) Discuss in detail about Bootstrap loader. 7
- b) Write a short note on simple one pass macro processor. 7
- 8. Explain the following :
 - a) Macro expansion 4
 - b) Dynamic Linking Editors 6
 - c) MSDOS Linker 4
