

Roll No

MCADD-301

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

Examination, November 2022

System Software

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) Define software processors.
b) Discuss addressing modes.
2. a) Explain the architecture of SIC machine with suitable examples.
b) Discuss in detail about multi-pass assembler.
3. a) Explain about Linking loader and Bootstrap loaders.
b) Write an algorithm for an absolute loader.
4. a) What do you understand by macro? Explain nested macro calls.
b) Explain MNT and MDT.
5. a) Explain in detail the interactive debugging systems.
b) Draw a block diagram and explain the different components of an editor structure.

6.
 - a) Explain various types of editors.
 - b) What are the functions of debugger.

7.
 - a) Explain the data structures used in macro processor.
 - b) Discuss various phases of macro processor.

8. Explain the following (any two) :
 - a) MASM macro processor
 - b) Macro expansion
 - c) SIC assembler
