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Roll No

MCADD-301

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

Examination, June 2020

System Software

Time : Three Hours

Maximum Marks : 70

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

1. a) What is System Software? Give examples.
b) What is base relative addressing? When do you use it?
2. a) Describe the actions taken by an assembler to deal with the program reallocation.
b) Discuss the features of Machine independent assembler.
3. a) Explain about Linking loader and Bootstrap loaders.
b) Write an algorithm for an absolute loader.
4. a) Explain the data structures used by the macro preprocessors and explain.
b) Discuss about the keyword macro parameters.
5. a) Explain in detail the interactive debugging systems.
b) Draw a block diagram and explain the different components of an editor structure.

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6.
 - a) Explain the Text editor in detail.
 - b) Discuss briefly about MS-DOS linker.

7.
 - a) What is a general purpose macro processor? Explain.
 - b) Write an algorithm for a simple one pass macro processor.

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