MCADD-301

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

Examination, November 2023

System Software

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) What is the Simplified Instructional Computer (SIC)? Give examples.
   b) What is the difference between Data and instruction formats? Explain using example.

2. a) What is I/O and programming? Explain in detail.
   b) Illustrate how input and out operations are performed in SIC?

3. a) Discuss independent assembler features.
   b) Explain the features of MASM assembler.

4. a) Explain about basic loader linkers functions.
   b) Explain about machine independent Loaders features.

5. a) Explain about machine independent macro processor features.
   b) Explain Basic macro processor functions in detail.

6. a) What is Conditional Macro Expansion? Explain in detail.
   b) Draw a block diagram and explain the different components of an editor structure.

7. a) Discuss about Macro within Macro using suitable example.
   b) What is the difference between debugging systems and Debugging functions?

8. Write short notes on the following:
   a) MSDOS linker
   b) Linkage Editors

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