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Roll No

MCA-101

M.C.A. I Semester

Examination, June 2020

Information Technology

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) Explain data and information. Discuss Data processing and its stages.
b) What are storage devices? Discuss its types.
2. a) Discuss the elements of assembly language programming.
b) What are the main functions of assembler? Also explain forward referencing and backward referencing in assembly language.
3. a) Differentiate between single pass and two pass assembler.
b) Discuss about the compilation of expressions and control structures by taking examples.
4. a) What is the function of Linker? Discuss its advantages and disadvantages.
b) Explain various types of loaders.
5. a) Explain Macro and Macro preprocessor. Discuss its advantages.
b) Differentiate between Macros, Procedures and Subroutines.

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6.
 - a) Explain sequential and indexed sequential file organization.
 - b) What is direct or random file organization? Give examples.

7.
 - a) Discuss various generations of computers with their technological advancement.
 - b) Explain Seek time and latency time, access time and transfer rate.

8. Explain the following:
 - a) Debug monitors
 - b) Editors
 - c) User interfaces
 - d) Utility packages

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