

**P-822**

Total Pages : 3

Roll No. ....

## **MCA-15/MSCIT-15**

**System Software**

(MCA/MSCIT)

4th Semester Examination, 2023 (June)

**Time : 2 Hours]**

**Max. Marks : 70**

**Note :** This paper is of Seventy (70) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein. Candidates should limit their answer to the questions on the given answer sheet. No additional (B) answer sheet will be issued.

### **SECTION-A**

**(Long Answer Type Questions)**

**Note :** Section 'A' contains Five (05) long answer type questions of Nineteen (19) marks each. Learners are required to answer any Two (02) questions only.

(2×19=38)

1. What do you mean by System software? What are the characteristics and application of System Software?

2. What is Assemblers? Discuss the Assembly languages in detail.
3. Discuss Linkers explain Static and dynamic linking.
4. Explain the different Phases of a compiler in details.
5. What do you mean by parser? Also differentiate Top-down and Bottom-up parsers.

## **SECTION-B**

### **(Short Answer Type Questions)**

**Note :** Section 'B' contains Eight (08) short answer type questions of Eight (08) marks each. Learners are required to answer any Four (04) questions only. (4×8=32)

1. Explain the classification of system software.
2. Explain the Concept Macros and macro processors.
3. What are the role of lexical analyser?
4. Explain the Basics code optimization techniques.
5. How Assembly language is different from machine language?

6. What is the use of Finite Automata?
  7. What do you mean by Run time storage management?
  8. What is intermediate code generation?
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