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[Roll No.]

**MCS-402/DCA-102/
MIT(CS)-301**

**(MSCIT/DCA/MSCCS) Ist/IIIrd Semester
Examination Dec., 2023**

INTRODUCTION TO COMPUTING

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 there in. Candidates should limit their answers to the questions on the given answer sheet. No additional (B) answer sheet will be issued.

Section-A

Long Answer Type Questions 2×19=38

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.

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(1)

P.T.O.

1. Explain recessive transition network with the help of an example.
2. What do understand packaging procedures and state ? Define with suitable example.
3. What is Lazy Evaluation ? Explain with real time problem.
4. Define asymptotic notations why they are used ?
5. What are the components of the computer systems ? Explain with the help of a diagram.

Section–B

Short Answer Type Questions 4×8=32

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.

1. What is meant by sorting and searching ?
2. What are empirical measurements ?
3. What do you mean by quadratic growth ?
4. Explain dynamic programming with a proper example.
5. Define CPU time, real time and GC time.

6. What is Python Programming ?
7. What is a parser ? Define the order of precedence for parsing expression.
8. Define the various decisions making expression.
