

**A-0873**

**Total Pages : 4**

**Roll No. -----**

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

**Introduction to Computing**

(MSCIT/DCA/MSCCS)

1<sup>st</sup>/3<sup>rd</sup> Semester Examination 2024(Dec.)

Time: 2:00 hrs

Max. Marks: 70

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

P.T.O.

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### **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.

[2x19=38]

- Q.1. Elaborate the Concept of Recursive Transition Networks?
- Q.2. What is Recursive Problem Solving? Explain with suitable example.
- Q.3. Compare & Contrast different sorting techniques.
- Q.4. Explain Godel's Incompleteness Theorem.
- Q.5. Define Computing. Elaborate the concept of Process & Procedure.

## **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.

[4x8=32]

- Q.1. Explain the Concept of Representing Data?
- Q.2. Define Programming Languages. Explain Substitution Model of Evaluation?
- Q.3. Explain Data Types & Generic Accumulators.
- Q.4. What is Mechanizing & Implementing Logic?
- Q.5. Explain Analyzing Procedure.
- Q.6. Enlist Impact of Mutation with detail.

P.T.O.

Q.7. Define Object. What do you mean by Packaging Procedure & State?

Q.8. Explain Control Statements in Python Language. Enlist applications of Python.

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