

Total pages : 03

Roll No.

MCS-402/DCA-102

Introduction to Computing

P.G.Diploma in Computer Application (PGDCA-20/DCA)

1ST Semester, Examination June 2022

Time : 2 Hours

Max. Marks:80

Note : This paper is of eighty (80) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein.

Section-A

(Long Answer-type questions)

Note: Section 'A' contains Five (05) long-answer-type questions of Twenty (20) marks each. Learners are required to answer any two (02) questions only.

(2 x 20=40)

- Q.1. a) Define Computer. What are the basic operations of Computer?
- b) What is the difference between an algorithm and a procedure ?

Q.2 Explain Growth of Computing Power.

P.T.O.

- Q.3 Explain Recursive Transition Network with the help of an example.
- Q.4 Define programming languages. Why Natural Languages cannot be used as programming languages?
- Q.5 What is a composite procedures? Explain with the help of diagram.

Section-B

(Short Answer-type questions)

Note: Section 'B' contains Eight (08) short-answer-type questions of Ten (10) marks each. Learners are required to answer any four (04) questions only.

(4 x 10=40)

- Q.1 What is Data and Information? Explain with the help of example.
- Q.2 What is a compiler? How it is different from an interpreter?
- Q.3 Explain the following terms:
- a) Define data abstraction.
 - b) Brute-force approach

P.T.O.

- Q.4 Explain the History of Computing Machines.
- Q.5 What is Halting Problem? Explain.
- Q.6 What is Universal Turing Machine? Explain.
- Q.7 Define the following terms:
- a) Parser
 - b) Interpreter
 - c) Lazy evaluation
 - d) Instance variables
- Q.8 Define a class. Explain the concept of subclass and superclass in OOPs.
