



TED (10) – 1018

Reg. No

(REVISION -- 2010)

Signature

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/
MANAGEMENT/COMMERCIAL PRACTICE -- OCTOBER, 2018**

PROGRAMMING METHODOLOGY

[Time : 3 hours

(Maximum marks : 100)

PART — A

(Maximum marks : 10)

Marks

I Answer *all* questions in one or two sentences. Each question carries 2 marks.

1. Name any two basic data type names.
2. Describe loop.
3. Describe an array.
4. Name two type of functions.
5. Describe recursion.

(5×2 = 10)

PART — B

(Maximum marks : 30)

II Answer any *five* of the following questions. Each question carries 6 marks.

1. Explain any three Data type with examples.
2. Describe any three type of operators with examples.
3. Compare pre test loop and post test loop.
4. Write an algorithm to find out the factorial of a number.
5. Describe one and two dimensional array with examples.
6. Write an algorithm to find out the average of an array of 'N' numbers.
7. Describe the different parameter passing methods.

(5×6 = 30)



PART — C

(Maximum marks : 60)

(Answer *one* full question from each unit. Each full question carries 15 marks.)

UNIT — I

- III (a) Explain the problem solving steps. 6
(b) Write an algorithm to find out the area of a rectangle. 9

OR

- IV (a) Illustrate flow chart symbols. 6
(b) Write an algorithm to find out the simple interest ($I=PNR$). 9

UNIT — II

- V (a) Write an algorithm to check whether the given number is positive, negative or Zero. 6
(b) Write an algorithm to accept a digit from the key board and print it in words (Eg. 1 One, 2 Two Etc.). 9

OR

- VI (a) Write an algorithm to find out the sum of numbers from 1 to 100. 6
(b) Write an algorithm to print odd numbers from "x" to "Y". 9

UNIT — III

- VII (a) Write an algorithm to print the even numbers in an array. 6
(b) Write an algorithm to search an element in the array or not. 9

OR

- VIII (a) Write an algorithm to find out the greatest element from an array. 6
(b) Write an algorithm to find out the sum of elements of a matrix (Two dimensional array). 9

UNIT — IV

- IX (a) Describe Scope of variables. 6
(b) Write an algorithm to find out the area of a triangle using function. 9

OR

- X (a) Describe the basic steps to create a file. 6
(b) Write an algorithm to find out the number of digits of a number using a function. 9
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