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Reg. No.

(REVISION — 2015)

Signature

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/
MANAGEMENT/COMMERCIAL PRACTICE — OCTOBER, 2019

PROGRAMMING IN C

[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. Define keywords in C.
2. Name four storage classes in C.
3. What is meant by recursion ?
4. What is meant by array in C ?
5. Name any two standard string handling library functions.

(5 × 2 = 10)

PART — B

(Maximum marks : 30)

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

1. Write a C program to find the largest among three numbers.
2. Distinguish between while and do-while with example.
3. Explain register and external storage class in C.
4. Compare call by value and call by reference parameter passing mechanism.
5. Write a C program to find the sum of elements in an array.
6. Write a C program to add two matrices.
7. Explain any three standard library string functions with examples.

(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 hierarchy of operators. 8
 (b) Write a C program to find the sum of digits of a number. 7

OR

- IV (a) Explain break and continue statements with example. 8
 (b) Explain the switch and case statements with example. 7

UNIT — II

- V (a) List the uses of functions in C. 8
 (b) Distinguish between macro and function. 7

- OR

- VI (a) Explain macros with arguments with example. 8
 (b) Explain function definition and prototype with example. 7

UNIT — III

- VII (a) Write a program that passes an entire array to a function. 8
 (b) Explain about pointers and arrays with example. 7

OR

- VIII (a) Write a C program to search an element in an array. 8
 (b) Explain array of pointers with example. 7

UNIT — IV

- IX (a) Write a user defined function to compare two strings without using standard library function. 8
 (b) Demonstrate declaration and accessing of a structure variable with the help of an example. 7

OR

- X (a) Compare array and structure with examples. 8
 (b) Write a C program to check whether a string is palindrome or not. 7