(i) Printed Pages : 2

(ii) Questions : 9

Roll No. ....

Sub. Code : | 8 | 7 | 1 | 0 |

Exam. Code : | 1 | 2 | 1 | 9 |

PGDCA 1ˢᵗ Semester

(2123)

COMPUTER PROGRAMMING USING C

Paper : PGD-1102

Time Allowed : Three Hours]   [Maximum Marks : 60

Note :— Attempt *five* questions in all, including Q. 9 in Section-E, which is compulsory and taking *one* each from Section-A to Section-D.

SECTION—A

1. Write an algorithm and draw corresponding flow chart to find the largest number among N numbers given as input.   12

2. Explain the following in the context of 'C' with examples :

   (a) Header files and their purpose.

   (b) Storage classes and their use.   6,6

SECTION—B

3. Explain the following in 'C' :

   (a) Array of pointers.

   (b) Pointer arithmetic.   6,6

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4. What is a user-defined function in 'C' ? Explain different parameter passing techniques in functions using suitable program examples.

12

SECTION—C

5. Define string in 'C'. Write a 'C' program that implements string copy operation *STRINGCOPY* (*str1, str2*) that copies a string *str1* to another string *str2* without using built-in library function.

12

6. Explain nested structures and array of structures with examples. Compare and contrast the *struct* and the *union* as it is defined in 'C'.

12

SECTION—D

7. Explain the concept of file in 'C'. Write a 'C' program (FCOPY.C) that copies a source file to a destination filename.

12

8. What are formatted and unformatted I/O functions in 'C' programming ? Explain with the help of suitable examples. 12

SECTION—E

(Compulsory Question)

9. (a) Explain various types of operators available in C language and their order of execution. Explain taking examples.

(b) What is recursion in 'C' ? Give suitable example.

(c) Give structure of a 'C' program.

(d) Explain the use of scanf() and sscanf() functions in 'C'.

3,3,3,3