No. of Printed Pages—2

11 (CP/CPC)

[17-HDGKACRM-M1]

PGDCA/MScIT/MCA 1st Semester Exam., 2017

COMPUTER PROGRAMMING USING C

(PGDCA/MScIT/MCA 03)

Full Marks : 50

Time : 2 hours

The figures in the margin indicate full marks for the questions

1. Answer any *three* of the following questions : 2×3=6

(a) Give the use of typedef statement in C language.

(b) Give two advantages of using flowchart.

(c) Define preprocessor directives.

(d) How is array different from structure?

2. Answer any *three* of the following questions : 4×3=12

(a) Write a program in C to show the use of conditional operator.

(b) Define storage class. List the different types of storage class.

(c) Give the difference between integer and character constants in C programming with appropriate example.

(d) How is a text file opened and closed in C?

3. Answer any *two* of the following questions : 6×2=12

(a) Write short notes on the following (any *two*) :

(i) Formal vs actual parameters

(ii) Recursive function

(iii) Break and continue statement

(b) Give the basic difference between structure and union. Write a C program to demonstrate the use of array of structures.

(c) Write a program in C which takes a string as input and then prints the length of the string. Also check if the contents of the string are in upper-case or lowercase. String library functions can be used in the program.

4. Answer any *two* of the following questions : 10×2=20

(a) Write a C program to multiply two matrixes and store the result in a third matrix and display the matrix.

(b) Write a C program using switch statement to perform the following functions :

(i) Find the factorial of a number

(ii) Print the square of a number

(iii) Find the greatest of three numbers

(c) Describe the following in brief (any *two*) : 5×2=10

(i) Dynamic memory allocation

(ii) Different parts of a function

(iii) Operator precedence and associativity

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