

# PROGRAMMING WITH C

## FOURTH YEAR

### SEMESTER – II (2018 – 19)

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Time: 3:00 Hrs.

Max. Marks: 80

#### **Instructions:**

1. All questions of Section – A are compulsory.
2. Attempt any four questions from Section – B.

#### **SECTION – A**

**20**

#### **Questions:**

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|--|----|
| 1. What is Function in C?                                    | 02 |
| 2. Define Local Variables and Global Variables with example. | 04 |
| 3. What are Formal Parameters, give an example?              | 02 |
| 4. What is DMA?  | 02 |
| 5. What is an Array, give an example?                        | 02 |
| 6. What is a Null Pointer?                                   | 02 |
| 7. Define the function of following, with example:           | 06 |
| a. strcat(),   |    |
| b. strcmp(),   |    |
| c. strchr(),   |    |
| d. strstr(),   |    |
| e. strcpy() and  |    |
| f. strlen().   |    |

## SECTION – B

60

### Questions:

**Question 1:** 15

- a.) Write a C Program to implement following operations on two numbers using function calling method and display the result - 10
- i. Addition,
  - ii. Subtraction,
  - iii. Multiplication and
  - iv. Division.

Create separate functions for each of these operations.

b.) How do we define a Function in C? 05

**Question 2:** 15

- a.) What are **typedef** and **#define**? Also state differences between these two. 09
- b.) What are the different modes in which a file can be opened in C-programming? 06

**Question 3:** 15

Write a C program to find the factorial of a number and then further to find if the result is palindrome using function calling. Create different functions for finding the Factorial and Palindrome.

**Question 4:** 15

- a.) Define Multidimensional Array with the help of an example. 05
- b.) Write a C – Program to find the average of 5 numbers by passing array to function. 10

**Question 5:** 15

a.) What are pointers ? How do we use pointers in C – Program? 10

Give example.

b.) What do you mean by Pointer to pointer? 05

**Question 6 :** 15

a.) What is Structure in C? Define with example. 06

b.) What is Union in C? Define with example. 06

c.) What are Bit Fields, explain? 03

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