

**204201**

May, 2019  
**BCA - II SEMESTER**  
**'C' Programming (BCA-17-106)**

Time : 3 Hours]

[Max. Marks : 75

**Instructions :**

1. *It is compulsory to answer all the questions (1.5 marks each) of Part-A in short.*
2. *Answer any four questions from Part-B in detail.*
3. *Different sub-parts of a question are to be attempted adjacent to each other.*

**PART-A**

1. (a) What are data types in C? (1.5)  
(b) What are different relational operators? (1.5)  
(c) What is the hierarchy of operators in Binary arithmetic operators? (1.5)  
(d) Define Strings? (1.5)  
(e) What are local and global variables? (1.5)  
(f) What are different unformatted input functions? (1.5)

- (g) What are header files? (1.5)
- (h) Define Recursion. (1.5)
- (i) What are pointers? (1.5)
- (j) Write down the syntax of function prototype. (1.5)

**PART-B**

- 2. (a) Write a program to find smallest among three numbers? (10)
- (b) What are different Unary operators? Explain with example. (5)

- 3. (a) Write a program to insert an element in a one dimensional array? (10)
- (b) Define 2-dimensional array in C. Give example. (5)

- 4. What are strings in C? Write a program to copy the content of one string to other string without using string in built function. (15)

- 5. (a) Write a program to find factorial of a number using recursion. (10)
- (b) Write down the syntax and example of all loops. (5)

- 6. (a) Elaborate the difference in call by value and call by reference with example. (10)
- (b) What are Bitwise Operators in C? (5)

7. Write short notes on the following :

- (a) Storage Classes.
- (b) Conditional Statements.
- (c) Parameter Passing Techniques in Functions.

(5×3=15)