May 2024
BCA SEMESTER-II (RE-APPEAR)
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) Define Character set.   (1.5)

    (b) Write syntax of scanf statement.   (1.5)

    (c) What are conditional operators?   (1.5)

    (d) What are branching statements?   (1.5)

    (e) What are global parameters?   (1.5)

    (f) Define array.   (1.5)

    (g) Give example of an algorithm for adding of two numbers. (1.5)

    (h) Write the name of one mathematical function.   (1.5)

(i) What is function prototype?   (1.5)

(j) What is Recursion?   (1.5)

PART–B

2. (a) What are different data types in C? Explain them with example.   (10)

(b) What are formatted and unformatted input/output functions?   (5)

3. (a) What are different types of operators? What are their hierarchy? Give example of unary and relational operators.   (10)

(b) What are 2-dimensional array? Explain with example.
                                                              (5)

4. Write a program to find the multiplication table of a number which is input by user. The output should be in this format 2*1=2, 2*2=4... etc.   (15)

5. Write a program to find the factorial of a number using recursion.   (15)

6. (a) What is string? Write a program to implement any 5 string functions.   (10)

(b) Write a flowchart for finding greatest among three numbers.   (5)

7. What are storage classes in C? What are their scope and lifetime? Explain them in detail.   (15)