Roll No…….. **Total No. of Printed Pages: 1**

Total No. of Questions: [09]

BCA-MCA Dual Degree (Semester 1st)
PROGRAMMING IN C LANGUAGE
Subject Code: BCMC103
Paper ID: [18340104]

Time: 03 Hours **Maximum Marks: 60**

Instruction for candidates:

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 5 questions of 5 marks each. The student has to attempt any 4 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Section – A **(2 marks each)**

Q1. Attempt the following:

a) Write data types available in C.
b) What do you mean by Function Prototyping? Explain it
c) List various operators available in C.
d) Write the syntax of FOR loop.
e) What are the benefits of arrays?
f) What is meant by formatted output in C?
g) Differentiate between constant and variable.
h) Why we use storage classes in C?
i) What is Compilation & Execution of Program?
j) Differentiate between identifier and keyword.

Section – B **(5 marks each)**

Q2. Write the general syntax and working of Switch and goto statement in C Language.
Q3. What is the use of pointers? Discuss concept of declaration and initialization of pointers.
Q4. Write a short note on storage classes.
Q5. Write a C program to find the factorial of a given number using recursion.
Q6. What is file processing in C++? Write syntax for opening the file using file operations.

Section – C **(10 marks each)**

Q7. Explain Call by Value & Call by Reference using Suitable Example.
Q8. Differentiate between structure and union. Also explain array of structure.
Q9. Describe the following

a) Macros in C
b) Use of Header files