

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

BMCI (2014 & Onwards) (Sem.-1)

PROGRAMMING IN C

Subject Code : BMCI-104

Paper ID : [A3274]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. SECTION-A is **COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
2. SECTION-B contains **FIVE** questions carrying **FIVE** marks each and students have to attempt any **FOUR** questions.
3. SECTION-C contains **THREE** questions carrying **TEN** marks each and students have to attempt any **TWO** questions.

SECTION - A**1. Answer briefly :**

- a) Write the precedence of operators in C.
- b) What are the various numeric data types in C?
- c) What is the difference between `break` and `continue` statements?
- d) What is the difference between library functions and user defined functions?
- e) What do you mean by reserve word? Write any four reserved words in C.
- f) What is a conditional operator?
- g) What is the purpose of `typedef` declaration?
- h) What are the various unary operators available in 'C' language?
- i) What do you mean by a nested structure?
- j) What are Macros? What is the use of macros?

SECTION-B

2. What is a Flowchart? Briefly discuss the common symbols used to draw a flowchart.
3. What do you mean by recursion? Write a recursive function to explain its use.
4. What is an array? How is an array declared in C? Discuss the memory representation of arrays in C.
5. What is a Pointer? How pointers are declared and initialized in a C program? Discuss pointer to an array with an example.
6. Write a C program to find sum of digits of a given number.

SECTION-C

7. What are the various input and output statements used in a C program? Discuss each with an example.
8. What is a Function? How functions are declared in C? What are the types of functions in C? Differentiate between parameter passing by value and by reference.
9. Write a C program to multiply two matrices using functions.