Roll No. | | | | | | | | | | | | | **Total No. of Pages : 02**

Total No. of Questions : 07

BCA (2019 Batch) (Sem.–1)

PROBLEM SOLVING USING C

Subject Code : UGCA-1903

M.Code : 76963

Time : 3 Hrs. **Max. Marks : 60**

INSTRUCTIONS TO CANDIDATES :

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

SECTION-A

1) Write briefly :

a) What are the basic data types associated with C?

b) Describe the difference between = and == symbols in C.

c) What is meant by prototype of a function in C?

d) What is the purpose of break statement and give a suitable example?

e) What are static variables? Give example.

f) Differentiate between structure and union?

g) What is pointer? How the variable can be assessed using pointer?

h) How are multidimensional arrays defined?

i) List out various file operations in C.

j) What is formatted I/O in C?

SECTION-B

2) What is flow chart? List out various symbols of flow chart. Draw the flow chart to find sum of numbers divisible by 7 in the range of 1 to 1000.

3) Write a C Program to print Fibonacci series up to n terms using :

   a) While loop

   b) For loop

4) What is Storage class? Explain various storage classes with suitable example of each.

5) Define Structure. How it is different from array? Demonstrate the concept of :

   a) Structure and pointer

   b) Passing structure to function, with suitable example of each.

6) What are the advantages of using array? How multidimensional array are stored in memory? Explain the concept of passing array to function with suitable example.

7) What is recursion? Write a C program to find sum of first n natural numbers using recursion.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.