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:

- 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.
- i) What is formatted I/O in C?

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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.

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