Roll No. [ ] Total No. of Pages : 02

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BCA (2011 & onwards) / B.Sc.(IT)(2015 Batch) (Sem.–1)

PROGRAMMING IN 'C'

Subject Code : BSBC/ BSIT-102

Paper ID : [B1109]

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 SIX questions carrying TEN marks each and a student has to attempt any FOUR questions.**

SECTION-A

1. **Write briefly :**

a) List various features of C language.

b) What is a constant? How it is declared in C language?

c) Write a program in C language to find the factorial of a given number.

d) What is break statement? How it is different from continue statement?

e) What is function? List various categories of a function.

f) What is nested structure? Explain with example.

g) What is pointer? How it is declared and accesses in C language?

h) What is nested if statement? Explain with example.

i) What is file? What is its need?

j) What is header file? Discuss its use in C programming.

SECTION-B

2. What is an algorithm? What are its characteristics? Write and explain an algorithm to find greatest number out of three given numbers.

3. Explain the following :

a) Looping statements in C language

b) Type of Operators in C language

4. What is Storage Class? Explain various storage classes available in C language with their merits and demerits.

5. What is Structure? How it is declared and accessed? Discuss how a structure is different from union.

6. What are different types of file operation in C? Discuss various operations by taking suitable examples.

7. Write short notes on the following :

a) Single and Multidimensional arrays

b) Preprocessor directives