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Total No. of Pages : 02

Total No. of Questions : 09

B.Tech. (Sem.-1/2)

**FUNDAMENTALS OF COMPUTER
PROGRAMMING & IT**

Subject Code : BTCS-101 (2011 & 2012 Batch)

Paper ID : [A1108]

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 & C. have FOUR questions each.
3. Attempt any FIVE questions from SECTION B & C carrying EIGHT marks each.
4. Select atleast TWO questions from SECTION - B & C.

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

- a. What do you mean by psuedocode?
- b. Differentiate between RAM and ROM.
- c. List various types of operating systems.
- d. What are symbolic constants? How are they created?
- e. Define expression.
- f. List various advantages of using functions.
- g. Differentiate between call by value and call by reference.
- h. What do you mean by data encapsulation?
- i. What are constructors?
- j. Define file.

SECTION-B

2. With the help of a block diagram, describe in detail various components of a computer system.
3. Describe in detail evolution of internet and its applications.
4. List various symbols used in flowcharts. Draw a flowchart to check whether a number is prime or not.
5. Describe mail merge feature of a word processing software.

SECTION-C

6. What do you mean by iteration? List and explain various constructs for iteration available in C++.
7. With the help of an example, describe passing of strings to a function.
8. What do you mean by member functions? Describe how member functions can be defined inside a class and outside of a class. What is the difference between these two types of definitions?
9. Write a program in C++ to count number of characters in a file.